BELLSOUTH

BellSouth Telecommunications, Inc.
2101
333 Commerce Street
Nashville, Tennessee 37201-3300

615 214-6311
Fax 615 214-7406

Patrick Turner
Attorney

REC'D TN
REGULATORY AUTH.
'00 JUL 5 PM 1 55
OFFICE OF THE
EXECUTIVE SECRETARY

July 5, 2000

**VIA HAND DELIVERY**

Mr. David Waddell, Executive Secretary
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, TN 37243

Re: *Petition for Arbitration of BlueStar Networks, Inc. with BellSouth Telecommunications, Inc. Pursuant to the Telecommunications Act of 1996*
Docket No. 99-00945

Dear Mr. Waddell:

Enclosed are the original and thirteen copies of BellSouth Telecommunications, Inc.'s Responses to Bluestar's First Request for Production. Copies of the enclosed are being provided to counsel of record for all parties. Responses containing proprietary information are being submitted under separate cover.

Very truly yours,

Patrick Turner

Patrick W. Turner

PWT/jem

Enclosure

POSTED 7-6-00

219100

## CERTIFICATE OF SERVICE

I hereby certify that on July 5, 2000, a copy of the foregoing document was served on the parties of record, via the method indicated:

[X] Hand
[ ] Mail
[ ] Facsimile
[ ] Overnight

Richard Collier, Esquire
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, TN 37243-0500

[X] Hand
[ ] Mail
[ ] Facsimile
[ ] Overnight

Michael B. Bressman, Esquire
BlueStar Networks
401 Church St., 24th Fl.
Nashville, TN 37219

[X] Hand
[ ] Mail
[ ] Facsimile
[ ] Overnight

Henry Walker, Esquire
Boult, Cummings, et al.
414 Union Ave., #1600
P. O. Box 198062
Nashville, TN 39219-8062

Patrick Turner

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for
Production of Documents
May 3, 2000
Item No. 1


REQUEST: Please produce all documents relied upon in responding to BlueStar's First Set of Data Requests to Bellsouth Telecommunications, Inc., Nos. 1-14.

RESPONSE: Certain of these documents are proprietary. BellSouth will make available cost studies filed in Docket No. 97-01262 at a mutually agreed upon time and place subject to the terms of the Protective Order.

REQUEST: Please provide a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for xDSL capable loops (including ADSL and HDSL capable loops). Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: BellSouth objects to this Request on the grounds that the information requested is not relevant to any issue in this proceeding nor is it reasonably calculated to lead to the discovery of admissible evidence. The issue to which this Request is presumably directed – the rates for xDSL capable loops – has been settled by the parties. See Attachment A to the Pre-Arbitration Officer's Report and Initial Order, entered May 3, 2000, and approved by the Arbitrators on May 9, 2000 that clearly sets forth the parties' negotiated agreement for rates for "ADSL Compatible Loops." Without waiving these objections, see BellSouth's Cost Study Filing in Docket 97-01262 (provided in POD Item No. 1) for the costs of xDSL capable loops. The nonrecurring costs for xDSL compatible loops are currently in progress and may be reviewed in a future filing,

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for
Production of Documents
May 3, 2000
Item No. 2 Attachment

ATTACHMENT A

# STIPULATION
(Tennessee)

**THIS STIPULATION** between BellSouth Telecommunications, Inc. ("BellSouth") and BlueStar Networks, Inc. ("BlueStar") is entered into and effective this 12th day of April, 2000. BellSouth and BlueStar are collectively referred to herein as the "Parties."

WHEREAS, BlueStar filed a Petition for Arbitration with BellSouth pursuant to the Telecommunications Act of 1996 ("Petition") on December 7, 1999 with the Tennessee Regulatory Authority (the "Authority");

WHEREAS, the Parties have continued to negotiate to resolve the issues contained in the Petition; and

WHEREAS, the Parties have resolved Issue 15 of the Petition and have agreed to set interim rates subject to true up for elements covered by Issue 11.

NOW, THEREFORE, the Parties hereby agree as follows:

1. The Parties have resolved Issue 15 of the Petition in Tennessee and have agreed in Tennessee to set interim rates subject to true up for elements covered by Issue 11. An Amendment reflecting this resolution and agreement is attached.

2. All other issues not resolved by the Parties remain pending in this proceeding.

3. Either or both of the Parties shall submit this Stipulation to the Authority.

IN WITNESS WHEREOF, the Parties hereto have caused this Stipulation to be executed by their respective duly authorized representatives on the date indicated below.

**BlueStar Networks, Inc.**

By: Norton Cutler

Name: Norton Cutler

Title: VP Regulatory & General Counsel

Date: April 12, 2000

**BellSouth Telecommunications, Inc.**

By: Jerry D. Hendrix

Name: Jerry D. Hendrix

Title: Sr. Director

Date: 4/12/00

# AMENDMENT TO THE AGREEMENT BETWEEN BLUESTAR NETWORKS, INC. AND BELLSOUTH TELECOMMUNICATIONS, INC. DATED DECEMBER 28, 1999 (Tennessee)

Pursuant to this Amendment, BlueStar Networks, Inc. ("BlueStar") and BellSouth Telecommunications, Inc. ("BellSouth"), hereinafter referred to individually as a "Party" or collectively as the "Parties," hereby amend that certain Interconnection Agreement between the Parties dated December 28, 1999 (the "Interconnection Agreement") in the state of Tennessee.

WHEREAS, the Parties entered into an Interconnection Agreement on December 28, 1999; and

WHEREAS, the Parties desire to amend that Interconnection Agreement.

NOW THEREFORE, in consideration of the mutual provisions contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby covenant and agree as follows:

1. The ADSL/HDSL rates contained in Attachment 2, Exhibit C are hereby revised as follows:

| | USOC | Tennessee Rates* |
|---|---|---|
| 2-Wire Asymmetrical Dig Subscriber Line (ADSL) Compatible Loop | | |
| Per Month | UAL2X | $12.16 |
| NRC- First | UAL2X | $270.01 |
| NRC – Add'l | UAL2X | $234.63 |
| NRC – Disconnect – First | SOMAN | $74.54 |
| NRC – Disconnect – Add'l | SOMAN | $39.14 |
| Order Coordination for Specified Conversion Time | | $34.29 |
| 2-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop | | |
| Per Month | UHL2X | $8.78 |
| NRC – First | UHL2X | $270.01 |
| NRC – Add'l | UHL2X | $234.63 |
| NRC – Disconnect – First | SOMAN | $74.54 |
| NRC – Disconnect – Add'l | SOMAN | $39.14 |
| Order Coordination for Specified Conversion Time | | $34.29 |

* All rates are interim, subject to true-up once rates are ordered by the TRA.

2. The Unbundled Copper Loop (UCL) rates and Loop Conditioning rates for Tennessee in the January 27, 2000 Amendment are hereby revised as follows:

2.1.2.8.1 The following rates for Tennessee are interim rates subject to true-up.

| 2-Wire Unbundled Copper Loop (18 kft. or less) | USOC | Tennessee Rates* |
|---|---|---|
| Recurring | UCLPB | $12.16 |
| Non-Recurring, 1st | UCLPB | $270.01 |
| Non-Recurring, Add'l | UCLPB | $234.63 |
| Disconnect – 1st | UCLPB | $74.54 |
| Disconnect - Add'l | UCLPB | $39.14 |
| Order Coordination | UCLMC | $34.29 |
| 2-Wire Unbundled Copper Loop (> 18 kft.) | | |
| Recurring | UCL2L | $12.16 |
| Non-Recurring, 1st | UCL2L | $270.01 |
| Non-Recurring, Add'l | UCL2L | $234.63 |
| Disconnect – 1st | UCL2L | $74.54 |
| Disconnect – Add'l | UCL2L | $39.14 |
| Order Coordination | UCLMC | $34.29 |
| Loop Conditioning** | | Tennessee Rates* |
| Remove Equipment <18kft | | |
| First Install | | $70.04 |
| Add'l Install | | $70.04 |
| Remove Equipment > 18kft | | |
| First Install | | $765.29 |
| Add'l Install | | $23.74 |
| Remove Bridge Tap | | |
| Per Pair | | $105.34 |

* All rates are interim rates, subject to true-up once final cost are determined. However, until final cost are determined, the UCL rates will be true-up based on the ADSL/HDSL rates once final costs are determined.

** The Loop Conditioning charges apply in addition to the UCL NRCs.

The Parties agree that the prices reflected herein shall be "trued-up" (up or down) based on final prices either determined by further agreement or by final order, including any appeals, in a proceeding involving BellSouth before the regulatory authority for the state in which the services are being performed or any other body having jurisdiction over this agreement, including the FCC. Under the "true-up" process, the price for each service shall be multiplied by the volumes of that service purchased to arrive at the total interim amount paid for that service ("Total Interim Price"). The final price for that service shall be multiplied by the volume purchased to arrive at the total final amount due ("Total Final Price"). The Total Interim Price shall be compared with the Total Final Price. If the Total Final Price is more than the Total Interim Price, Bluestar shall pay the difference to BellSouth. If the Total Final Price is less than the Total Interim Price, BellSouth shall pay the difference to Bluestar. Each party shall keep its own records upon which a "true-up" can be based and any final payment from one party to the other shall be in an amount agreed upon by the Parties based on such records. In the event of any disagreement as between the records of the Parties regarding the amount of such "true-up," the Parties agree that such differences shall be resolved through arbitration.

3. Section 12 of the General Terms and Conditions is hereby deleted in its entirety and replaced with the following language:

**12. Resolution of Disputes**

The Parties agree that it is in their interest to resolve disputes arising under this contract in an expedited manner. To expedite resolution of disputes, such as access to collocations or provisioning, the Parties agree to form an Intercompany Board. Each Party will designate one person (and one alternative person in case the primary designee is unavailable) with sufficient authority to resolve disputes quickly. If a dispute arises that is not being resolved quickly in the ordinary course, a Party's designee shall contact the other Party's designee. The two will then work together to resolve the dispute within 2 business days. If the dispute cannot be resolved within the 2 business days, either Party may file a Petition or Complaint or otherwise seek resolution of the dispute from the Tennessee Regulatory Authority.

4. This Amendment shall have an effective date of April 12, 2000.

5. All other provisions of the Interconnection Agreement dated December 28, 1999 shall remain in full force and effect.

6. Either or both of the Parties shall submit this Amendment to the appropriate Commission for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to the Interconnection Agreement be executed by their respective duly authorized representatives on the date indicated below.

| BlueStar Networks, Inc. | BellSouth Telecommunications, Inc. |
|---|---|
| By: [signature] | By: [signature] |
| Name: Nanette Curtis | Name: Jerry D. Hendrix |
| Title: VP Regulatory & General Counsel | Title: Sr. Director |
| Date: April 12, 2000 | Date: 4/13/00 |

REQUEST: Please provide a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for the "unbundled copper loop" offered by BellSouth. Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: BellSouth objects to this Request to the extent that it is overly broad, unduly burdensome, and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence. BellSouth further states that it has not filed a cost study for unbundled copper loops in Tennessee. Nevertheless, a preliminary study prepared for negotiations is being provided. Some of these documents contain proprietary information which are being provided subject to the terms of the Protective Order.

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for
Production of Documents
May 3, 2000
Item No. 3 Attachment

# BellSouth TELRIC Calculator

## Unbundled Network Cost Elements Summary Report

## Tennessee

## BLSTN004 - 2-W Unbundled Copper Loop for Negotiation Purposes

| Cost Element | | Recurring | Non Recurring | Non-Recurring First | Non-Recurring Additional | Non-Recurring Initial | Non-Recurring Subsequent |
|---|---|---|---|---|---|---|---|
| A.0 | UNBUNDLED LOCAL LOOP | | | | | | |
| A.13 | 2-WIRE COPPER LOOP | | | | | | |
| A.13.1 | 2-Wire Copper Loop | $20.11 | | $586.27 | $456.43 | | |
| A.13.2 | NID Per 2-Wire Copper Loop | $1.50 | | $5.52 | $5.52 | | |
| A.13.5 | 2-Wire Copper Loop - Incremental Cost - Manual Svc Order vs. Electronic | | | $46.75 | $20.61 | | |
| A.13.6 | 2-Wire Copper Loop - Order Coordination | | | $18.03 | $18.03 | | |

# Recurring Cost Summary

**Tennessee**
**A.13.1 - 2-Wire Copper Loop**

8/2/99

| | Volume Sensitive | | | | Volume Insensitive | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | $16.3209 | $1.9457 | | $18.2666 | | | | $0.0000 |
| **Other Expenses** | | | | | | | | |
| Subscriber Line Testing | $0.7690 | $0.0000 | | $0.7690 | $0.0000 | $0.0000 | | $0.0000 |
| Total Monthly Cost | $17.0899 | $1.9457 | | $19.0356 | $0.0000 | $0.0000 | | $0.0000 |
| Gross Receipts Tax Factor | | | X | 1.0032 | | | X | 1.0032 |
| Cost (including Gross Receipts Tax) | | | | $19.0970 | | | | $0.0000 |
| Common Cost Factor | | | X | 1.0530 | | | X | 1.0530 |
| Monthly Economic Cost | | | | $20.1091 | | | | $0.0000 |

**Total Monthly Economic Cost : $20.1091**

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Sensitive

**Tennessee**
**A.13.1 - 2-Wire Copper Loop**

| 8/2/99 | | | A | B | C=AxB | D1 | D2 | D3 | D4 | D5 | E=Cx(D1xD2 x...xD5) | F | G=ExF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | In-Plant Factors (Default = 1) | | | | | | | |
| | FRC | Sub FRC | Material | Inflation Factor | Adjusted Material | Plug-In Inventory Factor | Manl Factor | Telco Factor | Plug-In Factor | Hardwire Factor | In-Plant Investment | Supporting Equipment &/or Power Loading | Total Investment |
| Digital Elec Switch - Vendor EF&I - MCEP | 377C | 03 | $16.6186 | 0.9833 | $16.3405 | 1.0000 | 1.0000 | 1.0792 | 1.0000 | 1.0000 | $17.6347 | 1.1108 | $19.5886 |
| Digtl Clc - Other - Remote - Combined - MCEP | 357C | 51 | $110.3375 | 0.9835 | $108.3138 | 1.0000 | 1.2539 | 1.0000 | 1.0000 | 1.0000 | $134.3700 | 1.0466 | $140.6317 |
| Aerial Ca - Metal - Building Entrance | 12C | 00 | $1.1509 | 1.0455 | $1.2033 | 1.0000 | 5.8410 | 1.0000 | 1.0000 | 1.0000 | $7.0286 | 1.0000 | $7.0286 |
| Aerial Ca - Metal | 22C | 00 | $27.9829 | 1.0455 | $29.2562 | 1.0000 | 4.8359 | 1.0000 | 1.0000 | 1.0000 | $141.4798 | 1.0000 | $141.4798 |
| Aerial Ca - Metal - Drop | 22C | 01 | $53.4437 | 1.0455 | $55.8754 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | $55.8754 | 1.0000 | $55.8754 |
| Buried Ca - Metal | 45C | 00 | $18.2105 | 1.0404 | $18.9462 | 1.0000 | 6.1086 | 1.0000 | 1.0000 | 1.0000 | $115.7573 | 1.0000 | $115.7573 |
| Buried Ca - Metal - Drop | 45C | 01 | $59.7020 | 1.0404 | $62.1139 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | $62.1139 | 1.0000 | $62.1139 |
| Underground Ca - Metal | 5C | 00 | $25.1528 | 1.0352 | $26.0382 | 1.0000 | 5.6112 | 1.0000 | 1.0000 | 1.0000 | $146.1054 | 1.0000 | $146.1054 |
| Submarine Ca - Metal | 6C | 00 | $0.1014 | 1.0352 | $0.1050 | 1.0000 | 5.4574 | 1.0000 | 1.0000 | 1.0000 | $0.5730 | 1.0000 | $0.5730 |
| Inbbld Network - Metal | 52C | 00 | $0.0984 | 1.0403 | $0.1023 | 1.0000 | 5.4574 | 1.0000 | 1.0000 | 1.0000 | $0.5584 | 1.0000 | $0.5584 |

## Land, Building, Pole, and Conduit Investment Development
## Volume Sensitive

**Tennessee**
**A.13.1 - 2-Wire Copper Loop**

| | FRC | Investment | |
|---|---|---|---|
| Land - COE | 20C | $0.9133 | = Sum of Col C |
| Buildings - COE | 10C | $20.7485 | = Sum of Col E |
| Poles | 1C | $47.3844 | = Sum of Col G |
| Conduit Systems | 4C | $123.8681 | = Sum of Col I |

8/2/99

| | FRC | Sub FRC | A=Prev Page Col G Investment | B Land Factor | C=(AxB) Land Investment | D Building Factor | E=(AxD) Building Investment | F Pole Factor | G=(AxF) Pole Investment | H Conduit Factor | I=(AxH) Conduit Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Digital Elec Switch - Vendor EF&I - MCEP | 377C | 03 | $19.5886 | 0.0057 | $0.1117 | 0.1295 | $2.5367 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Digit Circ - Other - Remote - Combined - MCEP | 357C | 51 | $140.8317 | 0.0057 | $0.8016 | 0.1295 | $18.2118 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Aerial Ca - Metal - Building Entrance | 12C | 00 | $7.0286 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Aerial Ca - Metal | 22C | 00 | $141.4788 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.3349 | $47.3844 | 0.0000 | $0.0000 |
| Aerial Ca - Metal - Drop | 22C | 01 | $55.8754 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Buried Ca - Metal | 45C | 00 | $115.7573 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Buried Ca - Metal - Drop | 45C | 01 | $62.1139 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Underground Ca - Metal | 5C | 00 | $146.1054 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.8478 | $123.8681 |
| Submarine Ca - Metal | 6C | 00 | $0.5730 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Intrbld Network - Metal | 52C | 00 | $0.5584 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| | | | | | $0.9133 | | $20.7485 | | $47.3844 | | $123.8681 |

**Recurring Cost Development**
**Volume Sensitive**

**Termination**
**A.13.1 - 2-Wire Copper Loop**

| 8/2/99 | | A=Prev Page Col A | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+I+K) | M | N=(AxM) | O=(L+N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FRC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expense | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
| Land - COE | 35C | $0.9133 | 0.0000 | $0.0000 | 0.1125 | $0.1027 | 0.0547 | $0.0499 | -0.0000 | $0.0000 | 0.0116 | $0.0106 | $0.1633 | 0.0000 | $0.0000 | $0.1633 |
| Buildings - COE | 10C | $28.7485 | 0.0222 | $0.6411 | 0.0912 | $1.8026 | 0.0443 | $0.0194 | -0.0006 | $1.4441 | 0.0116 | $0.2416 | $4.0488 | 0.0086 | $0.0174 | $4.0671 |
| Digital Elec Switch | 37FC | $19.5886 | 0.1000 | $1.9589 | 0.0718 | $1.4023 | 0.0348 | $0.6813 | -0.0357 | $0.7102 | 0.0116 | $0.2291 | $4.9817 | 0.0330 | $0.6464 | $5.6281 |
| Digit Circ - Other | 35TC | $140.8517 | 0.1191 | $15.8257 | 0.0712 | $10.0159 | 0.0346 | $4.8679 | -0.0153 | $2.1522 | 0.0116 | $1.6374 | $34.3991 | 0.0285 | $4.0080 | $38.3111 |
| Poles | 1C | $47.3844 | 0.0471 | $2.2299 | 0.0704 | $3.3345 | 0.0342 | $1.6269 | -0.0330 | $1.5635 | 0.0116 | $0.5517 | $9.2866 | 0.0157 | $0.7439 | $10.0305 |
| Aerial Cb - Metal - Building Entrance | 12C | $7.8286 | 0.0814 | $0.5723 | 0.0883 | $0.4706 | 0.0332 | $0.2331 | -0.0433 | $0.3046 | 0.0116 | $0.0814 | $1.6717 | 0.0378 | $0.2643 | $1.9360 |
| Aerial Cb - Metal | 22C | $141.4788 | 0.0814 | $15.5285 | 0.0883 | $9.8578 | 0.0332 | $4.6820 | -0.0433 | $6.1323 | 0.0116 | $1.6472 | $33.8498 | 0.0378 | $5.3196 | $39.1694 |
| Aerial Cb - Metal - Drop | 22C | $55.8754 | 0.0814 | $4.5488 | 0.0883 | $3.8142 | 0.0332 | $1.8539 | -0.0433 | $2.4219 | 0.0116 | $0.6509 | $13.2895 | 0.0378 | $2.1009 | $15.3904 |
| Buried Cb - Metal | 45C | $115.7573 | 0.0764 | $8.8472 | 0.0710 | $8.2164 | 0.0345 | $3.9917 | -0.0280 | $3.2777 | 0.0116 | $1.3478 | $25.6807 | 0.0286 | $3.4148 | $29.0955 |
| Buried Cb - Metal - Drop | 45C | $92.1138 | 0.0764 | $7.0373 | 0.0710 | $6.5388 | 0.0345 | $3.1419 | -0.0280 | $1.7488 | 0.0116 | $0.7232 | $19.7700 | 0.0286 | $2.8324 | $22.6024 |
| Underground Cb - Metal | 5C | $146.1064 | 0.0809 | $13.1485 | 0.0880 | $10.1383 | 0.0337 | $4.9216 | -0.0196 | $2.7658 | 0.0116 | $1.7911 | $32.6853 | 0.0238 | $3.4773 | $36.1626 |
| Submarine Cb - Metal | 8C | $8.5738 | 0.0759 | $0.6439 | 0.0719 | $0.6411 | 0.0349 | $0.2859 | -0.0028 | $0.3915 | 0.0116 | $0.0997 | $1.8122 | 0.0134 | $0.0077 | $1.8199 |
| Inside Network - Metal | 52C | $0.5584 | 0.0650 | $0.0037 | 0.0741 | $0.0414 | 0.0380 | $0.0201 | -0.0047 | $0.0026 | 0.0116 | $0.0065 | $0.0314 | 0.0151 | $0.0090 | $0.0404 |
| Conduit Systems | 4C | $123.6861 | 0.0600 | $7.4774 | -0.0829 | $11.5015 | 0.0451 | $5.5877 | -0.0019 | $0.2340 | 0.0116 | $1.4427 | $21.2427 | -0.0122 | $1.5187 | $22.7614 |
| Annual Total | | $882.4364 | | | | | | | | | | | $195.8508 | | $23.3480 | $219.1988 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | $16.3209 | | $1.9457 | $18.2666 |

# Nonrecurring Cost Summary

**Tennessee**
**A.13.1 - 2-Wire Copper Loop**

8/2/99

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $412.8822 | $142.0936 | $554.9758 | $320.4346 | $111.6297 | $432.0643 |
| Total Cost | $412.8822 | $142.0936 | $554.9758 | $320.4346 | $111.6297 | $432.0643 |
| Gross Receipts Tax Factor | | | X 1.0032 | | | X 1.0032 |
| Cost (including Gross Receipts Tax) | | | $556.7662 | | | $433.4581 |
| Common Cost Factor | | | X 1.0530 | | | X 1.0530 |
| **Nonrecurring Economic Cost** | | | **$586.2748** | | | **$456.4314** |

## Rearrangement Cost Development

Termination
A 13.1 - 24Disp Copper Loop

| Function | JPC/ Payband | JPC/Payband Description | A Installation Work Hours Prem | A Installation Work Hours Addtnl | B Disconnect Work Hours Prem | B Disconnect Work Hours Addtnl | C Direct Labor Cost | D=A+C Install Cost Prem | D=A+C Install Cost Addtnl | E=B+C Disconnect Cost Prem | E=B+C Disconnect Cost Addtnl | F Disconnect Element Factor | G=E+F Disconnect Cost Prem | G=E+F Disconnect Cost Addtnl | Direct Cost Prem | Direct Cost Addtnl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERVICE INQUIRY | SDWOC | Systems Designer workstation Conn | 1.0000 | 0.1100 | 0.4200 | 0.2125 | $51.04 | $55.6857 | $24.8476 | $26.2839 | $13.1410 | 0.4825 | $22.1429 | $11.0714 | $85.8380 | $40.9191 |
| SERVICE INQUIRY | SDOC | Outside Plant Eng (F.CSE) | 3.0000 | 3.0000 | 0.0000 | 0.0000 | $47.97 | $143.9100 | $143.9100 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $143.9100 | $143.9100 |
| SERVICE ORDER | 2300 | Customer Prem Eq Control - ICSC | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $44.68 | $2.2439 | $2.2439 | $2.2439 | $2.2439 | 0.4825 | $1.0827 | $1.0827 | $4.1327 | $4.1327 |
| SERVICE ORDER | 4700 | Circuit Provisioning Group (CPG) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $37.68 | $1.8835 | $0.0000 | $1.8835 | $0.0000 | 0.4825 | $1.1612 | $0.0000 | $3.0447 | $0.0000 |
| SERVICE ORDER | 4WMC | Work Management Center (WMC) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $34.39 | $0.0000 | $0.0000 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $0.0000 | $0.0000 |
| SERVICE ORDER | 4700 | Acc Cost Advocate Ctr (ACAC) | 0.1000 | 0.1000 | 0.1000 | 0.1000 | $58.91 | $7.0235 | $7.0235 | $7.0235 | $7.0235 | 0.4825 | $5.0174 | $5.0174 | $12.0409 | $12.0409 |
| SERVICE ORDER | 4100 | Install & Mtce - Spec Svcs (IMSM) | 0.0972 | 0.0000 | 0.0000 | 0.0000 | $44.46 | $4.3235 | $0.0000 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $4.3235 | $0.0000 |
| ENGINEERING | 4600 | Address & Facility Inventory (AFIS) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $33.09 | $0.1978 | $0.0000 | $0.1978 | $0.0000 | 0.4825 | $0.1954 | $0.0000 | $0.3644 | $0.0000 |
| ENGINEERING | 4700 | Circuit Provisioning Group (CPG) | 0.1350 | 0.1350 | 0.0007 | 0.0007 | $37.68 | $4.9178 | $4.9178 | $0.0259 | $0.0259 | 0.4825 | $0.0218 | $0.0218 | $4.9397 | $4.9397 |
| CONNECT @ RUN-UP TEST | 4300 | CO Install & Mtce Field - Clin & Fac | 0.2000 | 0.1417 | 0.2105 | 0.0952 | $42.88 | $17.1400 | $8.0967 | $9.1439 | $4.2925 | 0.4825 | $7.6388 | $3.5835 | $19.6363 | $9.2761 |
| CONNECT @ RUN-UP TEST | 4700 | Acc Cost Advocate Ctr (ACAC) | 0.0195 | 0.0195 | 0.2205 | 0.2205 | $58.91 | $23.7339 | $23.7339 | $15.1782 | $15.1782 | 0.4825 | $7.3282 | $7.3282 | $31.0622 | $31.0622 |
| CONNECT @ RUN-UP TEST | 4100 | Install & Mtce - Spec Svcs (IMSM) | 1.0577 | 1.0577 | 0.0000 | 0.0000 | $44.46 | $47.0116 | $47.0116 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $47.0116 | $47.0116 |
| TRAVEL | 4100 | Install & Mtce - Spec Svcs (IMSM) | 1.0000 | 0.0000 | 0.0000 | 0.0000 | $44.46 | $44.4600 | $0.0000 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $44.4600 | $0.0000 |
| | | | | | | | | | | | | | | Total | $413.8822364 | $339.4341364 |

| Function | JPC/ Payband | JPC/Payband Description | Installation Work Hours Prem | Installation Work Hours Addtnl | Disconnect Work Hours Prem | Disconnect Work Hours Addtnl | TELRIC Labor Cost | Install Cost Prem | Install Cost Addtnl | Disconnect Cost Prem | Disconnect Cost Addtnl | Disconnect Element Factor | Disconnect Disconnect Cost Prem | Disconnect Disconnect Cost Addtnl | TELRIC Prem | TELRIC Addtnl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERVICE INQUIRY | SDWOC | Systems Designer workstation Conn | 1.0000 | 0.1100 | 0.4200 | 0.2125 | $54.04 | $59.4512 | $24.8476 | $26.2839 | $13.1410 | 0.4825 | $22.1429 | $11.0714 | $91.8380 | $49.1191 |
| SERVICE INQUIRY | SDOC | Outside Plant Eng (F.CSE) | 3.0000 | 3.0000 | 0.0000 | 0.0000 | $50.82 | $152.4600 | $152.4600 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $152.4600 | $152.4600 |
| SERVICE ORDER | 2300 | Customer Prem Eq Control - ICSC | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $47.32 | $2.3759 | $2.3759 | $2.3759 | $2.3759 | 0.4825 | $1.1462 | $1.1462 | $4.3221 | $4.3221 |
| SERVICE ORDER | 4700 | Circuit Provisioning Group (CPG) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $39.93 | $1.9965 | $0.0000 | $1.9965 | $0.0000 | 0.4825 | $1.1612 | $0.0000 | $3.1577 | $0.0000 |
| SERVICE ORDER | 4WMC | Work Management Center (WMC) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $36.44 | $0.0000 | $0.0000 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $0.0000 | $0.0000 |
| SERVICE ORDER | 4700 | Acc Cost Advocate Ctr (ACAC) | 0.1000 | 0.1000 | 0.1000 | 0.1000 | $62.41 | $7.4447 | $7.4447 | $7.4447 | $7.4447 | 0.4825 | $5.3174 | $5.3174 | $12.7621 | $12.7621 |
| SERVICE ORDER | 4100 | Install & Mtce - Spec Svcs (IMSM) | 0.0972 | 0.0000 | 0.0000 | 0.0000 | $47.12 | $4.5816 | $0.0000 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $4.5816 | $0.0000 |
| ENGINEERING | 4600 | Address & Facility Inventory (AFIS) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | $35.07 | $0.2096 | $0.0000 | $0.2096 | $0.0000 | 0.4825 | $0.2071 | $0.0000 | $0.4167 | $0.0000 |
| ENGINEERING | 4700 | Circuit Provisioning Group (CPG) | 0.1350 | 0.1350 | 0.0007 | 0.0007 | $39.93 | $5.2118 | $5.2118 | $0.0274 | $0.0274 | 0.4825 | $0.0231 | $0.0231 | $5.2349 | $5.2349 |
| ENGINEERING | 4700 | Circuit Provisioning Group (CPG) | 0.1350 | 0.1350 | 0.0007 | 0.0007 | $44.99 | $6.0748 | $6.0748 | $0.0315 | $0.0315 | 0.4825 | $0.0268 | $0.0268 | $6.1016 | $6.1016 |
| CONNECT @ RUN-UP TEST | 4300 | CO Install & Mtce Field - Clin & Fac | 0.2000 | 0.1417 | 0.2105 | 0.0952 | $51.21 | $10.2421 | $7.2564 | $10.7895 | $4.8825 | 0.4825 | $9.1810 | $4.1555 | $29.2795 | $16.2944 |
| CONNECT @ RUN-UP TEST | 4700 | Acc Cost Advocate Ctr (ACAC) | 0.0195 | 0.0195 | 0.2205 | 0.2205 | $58.91 | $23.7339 | $23.7339 | $15.1782 | $15.1782 | 0.4825 | $7.3282 | $7.3282 | $31.0622 | $31.0622 |
| CONNECT @ RUN-UP TEST | 4100 | Install & Mtce - Spec Svcs (IMSM) | 1.0577 | 1.0577 | 0.0000 | 0.0000 | $44.46 | $47.0116 | $47.0116 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $47.0116 | $47.0116 |
| TRAVEL | 4100 | Install & Mtce - Spec Svcs (IMSM) | 1.0000 | 0.0000 | 0.0000 | 0.0000 | $44.46 | $44.4600 | $0.0000 | $0.0000 | $0.0000 | 0.4825 | $0.0000 | $0.0000 | $44.4600 | $0.0000 |
| | | | | | | | | | | | | | | Total | $413.8822364 | $339.4341364 |

# Recurring Cost Summary

**Tennessee**
**A.13.2 - NID Per 2-Wire Copper Loop**

8/2/99

| | Volume Sensitive | | | | Volume Insensitive | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | $1.2382 | $0.1642 | | $1.4223 | | | | $0.0000 |
| Total Monthly Cost | $1.2382 | $0.1642 | | $1.4223 | $0.0000 | $0.0000 | | $0.0000 |
| Gross Receipts Tax Factor | | | X | 1.0032 | | | X | 1.0032 |
| Cost (including Gross Receipts Tax) | | | | $1.4269 | | | | $0.0000 |
| Common Cost Factor | | | X | 1.0530 | | | X | 1.0530 |
| Monthly Economic Cost | | | | $1.5026 | | | | $0.0000 |

**Total Monthly Economic Cost : $1.5026**

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Sensitive

**Tennessee**
**A.13.2 - NID Per 2-Wire Copper Loop**

| 8/2/99 | | | A | B | C=AxB | D1 | D2 | D3 | D4 | D5 | E=C x(D1xD2 x...xD5) | F | G=ExF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | In-Plant Factors (Default = 1) | | | | | | | |
| | FRC | Sub FRC | Material | Inflation Factor | Adjusted Material | Plug-in Inventory Factor | MoFI Factor | Telco Factor | Plug-in Factor | Hardwire Factor | In-Plant Investment | Supporting Equipment &/or Power Loading | Total Investment |
| Aerial Ca - Metal - Drop | 22C | 01 | $37.4987 | 1.0455 | $39.2049 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | $39.2049 | 1.0000 | $39.2049 |
| Buried Ca - Metal - Drop | 45C | 01 | $23.9746 | 1.0404 | $24.9431 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | $24.9431 | 1.0000 | $24.9431 |

## Recurring Cost Development
## Volume Sensitive

Tennessee
A.13.2 - NID Per 2-Wire Copper Loop

| 6/2/00 | | A=Prev Page Col G | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+I+K) | M | N=(AxM) | O=(L+N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RISC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expenses | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
| Assist Co - Metal - Disp | 22C | $30.2049 | 0.0814 | $3.1924 | 0.0863 | $2.6782 | 0.0532 | $1.3822 | 0.0433 | $1.0883 | 0.0116 | $0.4585 | $9.3240 | 0.0378 | $1.4741 | $10.7981 |
| Buried Co - Metal - Disp | 45C | $24.8431 | 0.0764 | $1.8984 | 0.0710 | $1.7704 | 0.0345 | $0.8601 | 0.0293 | $0.7283 | 0.0116 | $0.2884 | $5.5339 | 0.0295 | $0.7358 | $6.2697 |
| Annual Total | | $54.1480 | | | | | | | | | | | $14.8582 | | $2.2099 | $17.0681 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | $1.2382 | | $0.1842 | $1.4224 |

## Nonrecurring Cost Summary

**Tennessee**
**A.13.2 - NID Per 2-Wire Copper Loop**

8/2/99

**Nonrecurring Cost**

| | First | | | | Additional | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $4.1327 | $1.0963 | | $5.2290 | $4.1327 | $1.0963 | | $5.2290 |
| Total Cost | $4.1327 | $1.0963 | | $5.2290 | $4.1327 | $1.0963 | | $5.2290 |
| Gross Receipts Tax Factor | | | X | 1.0032 | | | X | 1.0032 |
| Cost (including Gross Receipts Tax) | | | | $5.2459 | | | | $5.2459 |
| Common Cost Factor | | | X | 1.0530 | | | X | 1.0530 |
| **Nonrecurring Economic Cost** | | | | **$5.5239** | | | | **$5.5239** |

## Nonrecurring Cost Development



# Nonrecurring Cost Summary

**Tennessee**

**A.13.5 - 2-Wire Copper Loop - Incremental Cost - Manual Svc Order vs. Electronic**

5/2/99

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $34.6936 | $9.5591 | $44.2527 | $15.2804 | $4.2314 | $19.5118 |
| Total Cost | $34.6936 | $9.5591 | $44.2527 | $15.2804 | $4.2314 | $19.5118 |
| Gross Receipts Tax Factor | | | X 1.0032 | | | X 1.0032 |
| Cost (including Gross Receipts Tax) | | | $44.3955 | | | $19.5748 |
| Common Cost Factor | | | X 1.0530 | | | X 1.0530 |
| **Nonrecurring Economic Cost** | | | **$46.7484** | | | **$20.6122** |

Nonrecurring Cost Development

Tennessee

A 11.5 - 8 Million Copper Loop - Incremental Cost - Manual Svc Order vs. Electronic

| BOAM | | | A | | B | | C | D=A+C | | E=B+C | | F | G=E+F | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Work Hours | | Disconnect Work Hours | | Direct Labor Rate | Install Cost | | Disconnect Cost | | Disconnect Discount Factor | Disconnect Discount Cost | | Direct Cost | |
| Function | JPC/ Payload | JPC/Payload Description | First | Additional | First | Additional | | First | Additional | First | Additional | | First | Additional | First | Additional |
| SERVICE ORDER | SERVOC | Systems Designed modification Conv | 0.8000 | 0.0167 | 0.8000 | 0.0167 | $51.84 | $7.0613 | $1.1837 | $7.0613 | $1.1837 | 0.3425 | $1.7267 | $0.4054 | $3.7889 | $1.1840 |
| SERVICE ORDER | 2389 | Customer Point Of Contact - ICSC | 0.4859 | 0.2599 | 0.2599 | 0.1167 | $44.85 | $39.1670 | $9.3730 | $17.7403 | $4.2230 | 0.3425 | $6.1785 | $1.4464 | $39.6845 | $11.3814 |
| | | | | | | | | | | | | | | Total | $4,481,980.23 | $1,320,410.83 |

| | | | Installation Work Hours | | Disconnect Work Hours | | TELRIC Labor Rate | Install Cost | | Disconnect Cost | | Disconnect Discount Factor | Disconnect Discount Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JPC/ Payload | JPC/Payload Description | First | Additional | First | Additional | | First | Additional | First | Additional | | First | Additional | First | Additional |
| SERVICE ORDER | SERVOC | Systems Designed modification Conv | 0.8000 | 0.0167 | 0.8000 | 0.0167 | $51.84 | $7.0613 | $1.1837 | $7.0613 | $1.1837 | 0.3425 | $2.4187 | $0.4054 | $5.1515 | $1.5807 |
| SERVICE ORDER | 2389 | Customer Point Of Contact - ICSC | 0.4859 | 0.2599 | 0.2599 | 0.1167 | $39.75 | $35.5439 | $9.3730 | $15.9599 | $4.2230 | 0.3425 | $5.4677 | $1.4464 | $34.9512 | $11.3814 |
| | | | | | | | | | | | | | | Total | $4,352,736.19 | $1,391,184.86 |

# Nonrecurring Cost Summary

**Tennessee**
**A.13.6 - 2-Wire Copper Loop - Order Coordination**

8/2/99

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $11.4567 | $3.7133 | $15.1700 | $11.4567 | $3.7133 | $15.1700 |
| Total Cost | $11.4567 | $3.7133 | $15.1700 | $11.4567 | $3.7133 | $15.1700 |
| Gross Receipts Tax Factor | | | X 1.0032 | | | X 1.0032 |
| Cost (including Gross Receipts Tax) | | | $15.2189 | | | $15.2189 |
| Common Cost Factor | | | X 1.0530 | | | X 1.0530 |
| **Nonrecurring Economic Cost** | | | **$16.0255** | | | **$16.0255** |

## Nonrecurring Cost Development

Transmission
A 138 - 345kv Copper Loop - Costs/ Coordination

| 6/2000 | | | A | | B | | C | D=A+C | | E=B+C | | F | G=E+F | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JPC/ Payment | JPC/Payment Description | Installation Work/Hours First | Installation Work/Hours Additional | Disconnect Work/Hours First | Disconnect Work/Hours Additional | Direct Labor Rate | Install Cost First | Install Cost Additional | Disconnect Cost First | Disconnect Cost Additional | Disconnect Discount Factor | Disconnected Disconnect Cost First | Disconnected Disconnect Cost Additional | Direct Cost First | Direct Cost Additional |
| CONNECT'd TURN-UP TEST | 4WYX | Work Management Center (WMC) | 0.3000 | 0.3330 | 0.0000 | 0.0000 | $34.37 | $11.4567 | $11.4567 | $0.0000 | $0.0000 | 0.0425 | $0.4850 | $0.0000 Total | $11.4567 11.4856667 | $11.4567 11.4856667 |

| Function | JPC/ Payment | JPC/Payment Description | Installation Work/Hours First | Installation Work/Hours Additional | Disconnect Work/Hours First | Disconnect Work/Hours Additional | TELRIC Labor Rate | Install Cost First | Install Cost Additional | Disconnect Cost First | Disconnect Cost Additional | Disconnect Discount Factor | Disconnected Disconnect Cost First | Disconnected Disconnect Cost Additional | TELRIC First | TELRIC Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECT'd TURN-UP TEST | 4WYX | Work Management Center (WMC) | 0.3000 | 0.3330 | 0.0000 | 0.0000 | $45.51 | $15.1700 | $15.1700 | $0.0000 | $0.0000 | 0.0425 | $0.6450 | $0.0000 Total | $15.1700 15.17 | $15.1700 15.17 |

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | NONRECURRING COST STUDY INPUT - VERSION 1.0 | —ASSUMES ELECTRONIC SERVICE ORDER ENTRY— | | | | | | | |
| 2 | 2-WIRE COPPER LOOP (designed circuit) | | | | | | | | |
| 3 | | | | DISCONNECT LOCATION LIFE (MOS.): | 48 | | | | |
| 4 | STATE: | TN | | | | | | | |
| 5 | COST ELEMENT #: | A.13.1 | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | LEVEL: | 1998-2000 | | | | | | | |
| 9 | | | | | | (A) | | (B) | |
| 10 | | | | | | INSTALL | | DISCONNECT | |
| 11 | DESCRIPTION | SME | | JEC | | WORKTIMES (HRS) | | WORKTIMES (HRS) | |
| 12 | SERVICE INQUIRY | | | | | FIRST | ADDTL | FIRST | ADDTL |
| 13 | Complex Resale Support Group (CRSG)/Acct Team receives Service Inquiry(SI) from CTSP, forwards SI to OSPE for handling, receives | Interconnection | | SDWOC | | 1.0300 | 0.5150 | 0.4250 | 0.2125 |
| 14 | completed SI from OSPE and forwards SI to UCSC for processing | | | | | | | | |
| 15 | OSPE reviews SI to determine if compatible facilities exist, assigns FRN, & returns completed SI to CRSG/Acct Team. | Network | | 32XX | | 3.8000 | 3.0000 | 0.0000 | 0.0000 |
| 16 | | | | | | | | | |
| 17 | SERVICE ORDER | | | | | | | | |
| 18 | LCSC handles order that falls out of order process flow | Interconnection | | 2300 | | 0.0500 | 0.0500 | 0.0500 | 0.0500 |
| 19 | CPG processes service request | Network | | 470X | | 0.0500 | 0.0000 | 0.0500 | 0.0000 |
| 20 | WMC coordinates dispatched technicians | Network | | 4W0X | | 0.2500 | 0.0000 | 0.0000 | 0.0000 |
| 21 | LINE Center coordinates overall administration of svc order | Network | | 471X | | 0.1833 | 0.1833 | 0.1833 | 0.1833 |
| 22 | SSM processes svc request | Network | | 411X | | 0.3072 | 0.0000 | 0.0000 | 0.0000 |
| 23 | | | | | | | | | |
| 24 | ENGINEERING | | | | | | | | |
| 25 | AFG assigns facilities | Network | | 400X | | 0.0054 | 0.0000 | 0.0058 | 0.0000 |
| 26 | CPG generates DLR & WORD document to CTSP & field | Network | | 470X | | 0.1300 | 0.1300 | 0.0007 | 0.0007 |
| 27 | | | | | | | | | |
| 28 | CONNECT & TURN-UP TEST | | | | | | | | |
| 29 | CO I&M Field work grp connects facility at collocation site | Network | | 431X | | 0.2833 | 0.1417 | 0.2125 | 0.0997 |
| 30 | LINE Center coordinates overall service turn-up | Network | | 471X | | 0.6185 | 0.6185 | 0.2395 | 0.2395 |
| 31 | SSM makes x-conn @ x-box, tests circuit w/CO @ prem & x-box, tags circuit & completes order | Network | | 411X | | 1.5877 | 1.5877 | 0.0000 | 0.0000 |
| 32 | | | | | | | | | |
| 33 | TRAVEL | | | | | | | | |
| 34 | SSM (incidental travel time which is not captured in IND/disrp investment) | Network | | 411X | | 0.3000 | 0.0000 | 0.0000 | 0.0000 |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | ASSUMPTIONS: | | | | | | | | |
| 38 | 1) Assumes loop is provisioned as a new loop--100% dispatch. | | | | | | | | |
| 39 | 2) CO I&M Field (connect & test) assumes 15% of total CO I&M Field time carried in other transport elements | | | | | | | | |
| 40 | 3) Loop is ordered by CTSP via an electronic interface. | | | | | | | | |
| 41 | 4) LSCS reflects time for handling an order, facilitated via electronic interface by the CTSP, when that order falls out | | | | | | | | |
| 42 | of the service order process due to LSR errors. Assumes 28% order fall-out rate at 15 minutes per loop. | | | | | | | | |
| 43 | 5) Order Coordination is a separate optional charge. | | | | | | | | |

Inputs

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 44 | NONRECURRING COST STUDY INPUT | —ASSUMES ELECTRONIC SERVICE ORDER ENTRY— | | | | | | | |
| 45 | ELECTRONIC SERVICE ORDER ENTRY | | | | DISCONNECT LOCATION LIFE (NDS) | | 46 | | |
| 46 | NID PER 2-WIRE LOOP | | | | | | | | |
| 47 | | TN | | | | | | | |
| 48 | STATE: | A 13.2 | | | | | | | |
| 49 | COST ELEMENT #: | | | | | | | | |
| 50 | | 1998 - 2000 | | | | (A) | | (B) | |
| 51 | LEVEL: | | | | | INSTALL WORKTIMES (HRS) | | DISCONNECT WORKTIMES (HRS) | |
| 52 | | | | | | | | | |
| 53 | | SME | | JFC | FIRST | ADDT'L | FIRST | ADDT'L | |
| 54 | DESCRIPTION: | | | | | | | | |
| 55 | | | | | | | | | |
| 56 | SERVICE ORDER | Interconnection | | 2300 | 0.0500 | 0.0500 | 0.0500 | 0.0500 | |
| 57 | LCSC handles order that falls out of order process flow | | | | | | | | |
| 58 | | | | | | | | | |
| 59 | | | | | | | | | |
| 60 | | | | | | | | | |
| 61 | | | | | | | | | |
| 62 | | | | | | | | | |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | | | | | | | | | |
| 66 | ASSUMPTIONS: | | | | | | | | |
| 67 | 1) LSCS reflects time for handling an order, initiated via electronic interface by the CTSP, when that order falls out | | | | | | | | |
| 68 | of the service order process due to LSR errors. Assumes 20% order fall-out rate at 15 minutes per loop. | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | | | | | | | | | |
| 71 | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 72 | NONRECURRING COST STUDY INPUT | —ASSUMES MANUAL SERVICE ORDER ENTRY— | | | | | | | |
| 73 | INCREMENTAL COST - MANUAL SERVICE ORDER VS ELECTRONIC ORDER | | | | DISCONNECT LOCATION LIFE (MOS.): | | 48 | | |
| 74 | 2-WIRE UNBUNDLED LOOP & NID PER 2-WIRE UNBUNDLED LOOP | | | | | | | | |
| 75 | | | | | | | | | |
| 76 | STATE: | TN | | | | | | | |
| 77 | COST ELEMENT #: | A.13.5 | | | | | | | |
| 78 | | | | | | | | | |
| 79 | LEVEL: | 1998 - 2000 | | | | (A) | | (B) | |
| 80 | | | | | | INSTALL | | DISCONNECT | |
| 81 | | | | | | WORKTIMES (HRS) | | WORKTIMES (HRS) | |
| 82 | DESCRIPTION | BASE | | ACC | | FIRST | ADDTL | FIRST | ADDTL |
| 83 | | | | | | | | | |
| 84 | SERVICE ORDER | | | | | | | | |
| 85 | CRSG/Acct Team receives LSR from CTSP, screens LSR, and forwards LSR to LCSC for processing | Interconnection | | SDWOC | | 0.0333 | 0.0167 | 0.0333 | 0.0167 |
| 86 | LCSC receives, validates and processes LSR and completed SI faxed by CRSG/Account Team and sends FOC to CTSP | Interconnection | | 2300 | | 0.4500 | 0.2800 | 0.2833 | 0.1167 |
| 87 | | | | | | | | | |
| 88 | | | | | | | | | |
| 89 | | | | | | | | | |
| 90 | | | | | | | | | |
| 91 | | | | | | | | | |
| 92 | | | | | | | | | |
| 93 | | | | | | | | | |
| 94 | | | | | | | | | |
| 95 | | | | | | | | | |
| 96 | ASSUMPTIONS: | | | | | | | | |
| 97 | 1) Assumes a manual service order entry process (excluding LCSC worktimes associated with handling the fall-out of | | | | | | | | |
| 98 | an order initiated via electronic interface by the CTSP). | | | | | | | | |
| 99 | | | | | | | | | |

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 100 | NONRECURRING COST STUDY INPUT | | | | | | | |
| 101 | ORDER COORDINATION | | | | | | | |
| 102 | 2-WIRE COPPER LOOP | | | | DISCONNECT LOCATION LIFE (MOS.) | | 46 | |
| 103 | | | | | | | | |
| 104 | STATE: | TN | | | | | | |
| 105 | COST ELEMENT #: | A.13.6 | | | | | | |
| 106 | | | | | | | | |
| 107 | LEVEL: | 1998 - 2000 | | | | | | |
| 108 | | | | | | (A) | | (B) |
| 109 | | | | | | INSTALL | | DISCONNECT |
| 110 | DESCRIPTION | BME | | AFC | WORKTIMES (HRS) FIRST | ADDTL | WORKTIMES (HRS) FIRST | ADDTL |
| 111 | | | | | | | | |
| 112 | CONNECT & TURN-UP TEST | | | | | | | |
| 113 | LINE Center coordinates work group efforts to ensure customer cutover specifications are met | Network | | 4WXX | 0.3333 | 0.3333 | 0.0000 | 0.0000 |
| 114 | | | | | | | | |
| 115 | | | | | | | | |
| 116 | | | | | | | | |
| 117 | | | | | | | | |
| 118 | | | | | | | | |
| 119 | | | | | | | | |
| 120 | | | | | | | | |
| 121 | | | | | | | | |
| 122 | | | | | | | | |
| 123 | ASSUMPTIONS: | | | | | | | |
| 124 | 1) Assumes incremental time associated with order coordination (i.e., disconnect order for retail loop, unbundled loop order, | | | | | | | |
| 125 | and resale call forward/number portability order) to ensure customer cutover specifications are met. | | | | | | | |
| 126 | 2) Worktimes are applicable on a per loop basis. | | | | | | | |

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA | | | | | | |
| 2 | | | | | | | | |
| 3 | | Instructions: | | | | | | |
| 4 | | 1. Use this worksheet to record material and/or investments to be input into the | | | | | | |
| 5 | | TELRIC calculations. | | | | | | |
| 6 | | 2. All amounts shown are per unit (e.g., per call, per loop, per MDU). | | | | | | |
| 7 | | 3. Input data, by Cost Element, leaving no blank lines. On next row | | | | | | |
| 8 | | after last line of data, type END in Cost Element Column. | | | | | | |
| 9 | | 4. All data on this form should be cell-referenced to study workpapers. | | | | | | |
| 10 | | 5. Do NOT change columns, headings, sheet name. | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | Volume | Volume | | |
| 13 | | Cost | | Sub | Sensitive | Insensitive | | |
| 14 | State | Element # | FRC | FRC | $ Amount | $ Amount | | |
| 15 | | | | | | | | |
| 16 | | END | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | | TELRIC INPUT FORM - RECURRING EXPENSES DATA | | | | |
| 2 | | | | | | |
| 3 | | Instructions: | | | | |
| 4 | | 1. Use this worksheet to record recurring non-labor expenses to be input into the | | | | |
| 5 | | TELRIC calculations. | | | | |
| 6 | | 2. All amounts shown are per unit (e.g., per call, per loop, per MOU). | | | | |
| 7 | | 3. Input data, by Cost Element, leaving no blank lines. On next row | | | | |
| 8 | | after last line of data, type END in Cost Element Column. | | | | |
| 9 | | 4. All data on this form should be cell-referenced to study workpapers. | | | | |
| 10 | | 5. Do NOT change columns, headings, sheet name. | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | Recurring | Recurring | |
| 15 | | | Recurring | Volume | Volume | |
| 16 | | Cost | Expense Description | Sensitive | Insensitive | |
| 17 | State | Element # | (Limited to 25 characters) | $ Amount | $ Amount | |
| 18 | TN | A.13.1 | Subscriber Line Testing | $ 0.769 | | |
| 19 | | | | | | |
| 20 | | END | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | Maximum 10 entries per Cost Element # | | | |

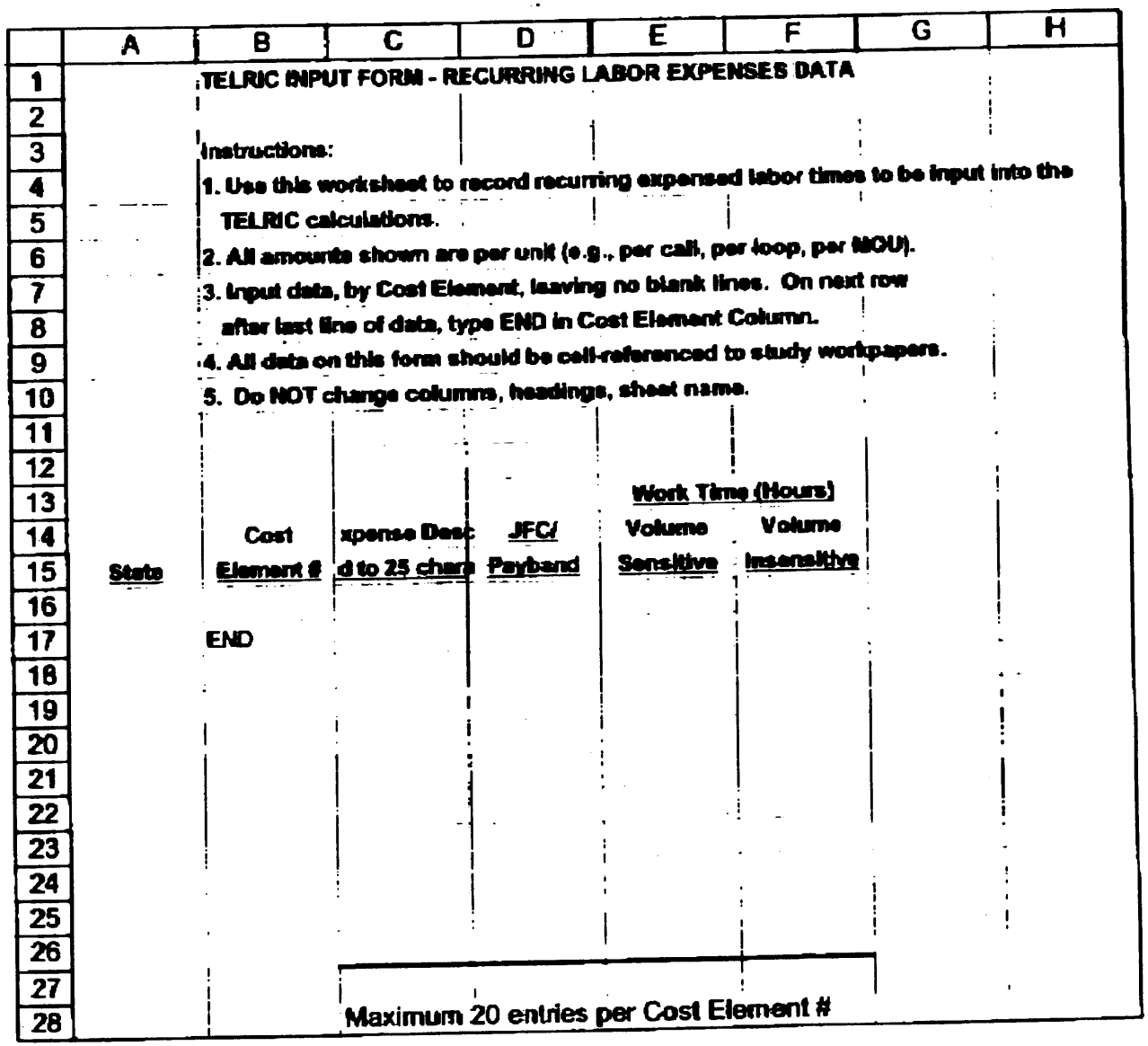
**TELRIC INPUT FORM - NONRECURRING EXPENSES DATA**

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the TELRIC calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

| State | Cost Element # | Nonrecurring Expense Description (Limited to 28 characters) | onrecurring $ Amount | Nonrecurring First $ Amount | Nonrecurring Additional $ Amount | onrecurring Initial $ Amount | onrecurring Subsequent $ Amount |
|---|---|---|---|---|---|---|---|
| | END | | | | | | |

Maximum 10 entries per Cost Element #



TELRIC INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring expensed labor times to be input into the TELRIC calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

| State | Cost Element # | Expense Desc'd to 25 chars | JFC/ Payband | Work Time (Hours) Volume Sensitive | Volume Insensitive |
|---|---|---|---|---|---|
| | END | | | | |

Maximum 20 entries per Cost Element #

TELRIC INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the TELRIC calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MDU).
3. Input data, by Cost Element, leaving no blank lines. Do next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cost-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Study midpoint date is set for Georgia studies at GRI.
8. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Base): Jun-98

| State | Cost Element # | Cost Element Life (Mo) | Labor Expense Description (Limited to 45 characters) | IFC/ Payband | (Per line or per MDU) Installation Time (Hours) | (Per line or per MDU) Disconnect Time Hours | First Installation Time (Hours) | First Disconnect Time Hours | Additional Installation Time (Hours) | Additional Disconnect Time Hours | Initial Installation Time (Hours) | Initial Disconnect Time Hours | Subsequent Installation Time (Hours) | Subsequent Disconnect Time Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TN | A 13 1 | 48 | SERVICE INQUIRY | SDWDC | | | 1.0300 | 0.4250 | 0.5150 | 0.2125 | | | | |
| TN | A 13 1 | 48 | SERVICE INQUIRY | 320X | | | 3.0000 | 0.0000 | 3.0000 | 0.0000 | | | | |
| TN | A 13 1 | 48 | SERVICE ORDER | 230D | | | 0.2500 | 0.0500 | 0.2500 | 0.0500 | | | | |
| TN | A 13 1 | 48 | SERVICE ORDER | 470X | | | 0.2500 | 0.0500 | 0.2500 | 0.0500 | | | | |
| TN | A 13 1 | 48 | SERVICE ORDER | 4WXX | | | 0.2500 | 0.0000 | 0.2500 | 0.0000 | | | | |
| TN | A 13 1 | 48 | SERVICE ORDER | 471X | | | 0.1833 | 0.1833 | 0.1833 | 0.1833 | | | | |
| TN | A 13 1 | 48 | SERVICE ORDER | 411X | | | 0.2872 | 0.0000 | 0.2500 | 0.0000 | | | | |
| TN | A 13 1 | 48 | ENGINEERING | 460X | | | 0.0058 | 0.0058 | 0.0000 | 0.0000 | | | | |
| TN | A 13 1 | 48 | ENGINEERING | 470X | | | 0.1300 | 0.0007 | 0.1300 | 0.0007 | | | | |
| TN | A 13 1 | 48 | CONNECT & TURN-UP TEST | 431X | | | 0.2833 | 0.2125 | 0.1417 | 0.0892 | | | | |
| TN | A 13 1 | 48 | CONNECT & TURN-UP TEST | 471X | | | 0.6196 | 0.2385 | 0.6196 | 0.2385 | | | | |
| TN | A 13 1 | 48 | CONNECT & TURN-UP TEST | 411X | | | 1.5877 | 0.0000 | 1.5877 | 0.0000 | | | | |
| TN | A 13 1 | 48 | TRAVEL | 411X | | | 0.3000 | 0.0000 | 0.3000 | 0.0000 | | | | |
| TN | A 13 2 | 48 | SERVICE ORDER | 230D | | | 0.0500 | 0.0500 | 0.0500 | 0.0500 | | | | |
| TN | A 13 5 | 48 | SERVICE ORDER | SDWDC | | | 0.0333 | 0.0333 | 0.0167 | 0.0167 | | | | |
| TN | A 13 5 | 48 | SERVICE ORDER | 230D | | | 0.4500 | 0.2833 | 0.2000 | 0.1167 | | | | |
| TN | A 13 6 | 48 | CONNECT & TURN-UP TEST | 4WXX | | | 0.3333 | 0.0000 | 0.3333 | 0.0000 | | | | |
| | END | | | | | | | | | | | | | |

Maximum 20 entries per Cost Element #



05/22/00 14:21

| | A | B | C | D |
|---|---|---|---|---|
| 1 | | SUBSCRIBER LINE TESTING | | 4/19/1997 |
| 2 | | 1997 THROUGH 1999 | | |
| 3 | | (MONTHLY COSTS) | | |
| 4 | | | | TENNESSEE |
| 5 | | | | 11.25% |
| 6 | | SOURCE | | |
| 7 | | | | |
| 8 | 1. TOTAL DIR TO LOOP COSTS | SHARED & COMMON, LN 251, COL HZ | BST | 278,333,719 |
| 9 | | | | |
| 10 | 2. DIRECTLY ASSIGNED COSTS | SHARED & COMMON, LN 89, COL O | BST | 87,463,933 |
| 11 | | | | |
| 12 | 3. OTHER COSTS RATIO | (LN 1/ LN 2) -1.0 | BST | 2.1823 |
| 13 | | | | |
| 14 | 4. DIRECTLY ASSIGNED COSTS | OTHER COSTS STUDY, LN 78, COL R | WS B | 7,878,845 |
| 15 | | | | |
| 16 | 5. OTHER COSTS | LN 3 X LN 4 | | 17,193,318 |
| 17 | | | | |
| 18 | 6. TOTAL COSTS | LN 4 + LN 5 | | 25,071,993 |
| 19 | | | | |
| 20 | 7. AVERAGE ACCESS LINE | PAUL GRACE, FINANCE, (404-529-7665) | AVG 1997T1999 | 2,718,810 |
| 21 | | | | |
| 22 | 8. DIRECTLY ASSIGNED COSTS | (LN 4/LN 7)/12 MONTHS | | 0.242 |
| 23 | PER LOOP | | | |
| 24 | | | | |
| 25 | 9. OTHER COSTS PER LOOP | (LN 5/LN 7)/12 MONTHS | | 0.527 |
| 26 | | | | |
| 27 | 10. TOTAL COSTS PER LOOP | (LN 6/LN 7)/12 MONTHS | | 0.769 |

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | TENNESSEE | LOOP AND DIGITAL LOOP CARRIER UTILIZATION | | | |
| 2 | | | | | |
| 3 | | | 1997 | | |
| 4 | | Source | TN - TELRIC | | |
| 5 | Copper Feeder Pairs Available YE97 | LUVM | 3,214,209 | | |
| 6 | Copper Feeder Pairs Assigned YE97 | LUVM | 2,083,691 | | |
| 7 | Percentage - Copper Feeder | | 64.8% | | |
| 8 | | | | | |
| 9 | Copper Distribution Pairs Avail YE97 | OUTCA | 5,698,375 | | |
| 10 | Copper Distribution Pairs Assign YE97 | OUTCA | 2,501,444 | | |
| 11 | Percentage - Copper Distribution | | 43.9% | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| 41 | | | | | |
| 42 | | | | | |
| 43 | | | | | |
| 44 | | | | | |
| 45 | | | | | |
| 46 | | | | | |
| 47 | | | | | |
| 48 | | | | | |
| 49 | Source Notes: | OUTCA data provided by Alan Lefkowitz from "Tennessee Hunt" data | | | |
| 50 | | Data specifications are: Available ZIPs complement must have at least one working pair | | | |
| 51 | | LUVM data provided by Sidney Simons from "loops.zip" data | | | |

05/22/00 14:22

NO.570 P001 017

| | | BURIED SERVICE WIRE - CONTRACT PRICES | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| | Source: | Network - Contract Administration | | | | |
| | Wire Size: | <500', 12" | | | | |
| | | | | | | |
| No. | | | | | | |
| Contracts | TN | | | | | |
| | | | | | | |
| 1 | [redacted] | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| | | | | | | |
| TOTAL | 529.01 | | | | | |
| AVG | 105.80 | | | | | |



bswredact.xls PRIVATE/PROPRIETARY: No use or disclosure outside BellSouth except by written agreement.

05/22/00 14:22 NO.575 P033/040

| | B | D | F | H | J | L |
|---|---|---|---|---|---|---|
| 1 | | | DROP WIRE / NID INPUTS | | | |
| 2 | | | | | | |
| 3 | STATE | Tennessee | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | Item | Source | FSC | Sub-FSC | Amount | Comments |
| 7 | | | | | | |
| 8 | 4&M - POTS Labor Rate | Cost Factors | | | $ 41.09 | Regional - Direct |
| 9 | Job Function Code | Network | | | 4180 | |
| 10 | Average # of Loops - Residence | CRIS | | | 1.13 | |
| 11 | Average # of Loops - Business 2w | MKDS | | | 2.76 | |
| 12 | Average # of Loops - Business 4w | MKDS | | | 2.76 | |
| 13 | | | | | | |
| 14 | Drop Material (Aerial 2pr) Price per Ft. | mattable.xls | 22C | 01 | $ 0.0669 | |
| 15 | Drop Material Average Distance-Aerial | Network | 22C | 01 | 250 | State-specific |
| 16 | Aerial Drop Material | J14*J15 | 22C | 01 | $16.72 | |
| 17 | Drop Material (Buried 5pr) Price per Ft. | mattable.xls | 45C | 01 | $ 0.1201 | |
| 18 | Drop Material Average Distance-Buried | Network | 45C | 01 | 300 | State-specific |
| 19 | Buried Drop Material | J17*J18 | 45C | 01 | $36.02 | |
| 20 | | | | | | |
| 21 | NID Material (Interface Only) | Network | 22C & 45C | 01 | $ 7.22 | |
| 22 | NID Material (Bridge & Protector) 2w | Network | 22C & 45C | 01 | $ 7.84 | |
| 23 | NID Material (Bridge & Protector) 4w | Network | 22C & 45C | 01 | $ 15.28 | |
| 24 | Exempt Material - Aerial | Network | 22C | 01 | $ 1.00 | |
| 25 | | | | | | |
| 26 | Contractor Labor (0-300 ft) - Buried | labr.xls | 45C | 01 | $ 105.80 | State-specific |
| 27 | Telco Labor - Travel | Network | 22C & 45C | 01 | 0.5833 | Hours |
| 28 | Telco Labor - Install NID | Network | 22C & 45C | 01 | 0.5833 | Hours |
| 29 | Telco Labor - Aerial Install & Term. Drop | Network | 22C | 01 | 0.8167 | Hours |
| 30 | Telco Labor - Buried Install & Term. Drop | Network | 45C | 01 | 0.3333 | Hours |
| 31 | | | | | | |
| 32 | Sales Tax | Cost Factors | | | 1.06 | |
| 33 | | | | | | |
| 34 | % Material Aerial | Sample Calculation | 22C | 01 | 61.00% | |
| 35 | % Material Buried | Sample Calculation | 45C | 01 | 39.00% | |
| 36 | % Residence Loops With Drop | Sample Calculation | 22C & 45C | 01 | 87.15% | |
| 37 | % Business Loops With Drop | Sample Calculation | 22C & 45C | 01 | 47.86% | |
| 38 | | | | | | |
| 39 | | | | | | |
| 40 | Assumptions / Notes: | | | | | |
| 41 | - Material prices for drop, NID, and exempt are from the material table (mattable.xls) or the BST Apparatus Equipment & Tools | | | | | |
| 42 | Product Catalog, November 1997. | | | | | |
| 43 | - Residence and Business installation information is the same. | | | | | |
| 44 | - Travel time represents an average situation considering dispatch point to first customer, customer to customer, and back to dispatch. | | | | | |
| 45 | - Drop Wire material is based on a state-specific estimate of average distance of 300 ft Buried and 250 ft Aerial. | | | | | |
| 46 | | | | | | |



05/22/00 14:22 NO.575 P034/040

Drop Material - 2wire

| | B | D | F | H | J | L |
|---|---|---|---|---|---|---|
| 1 | | **DROP WIRE / NID MATERIAL** | | | | |
| 2 | | | | | | |
| 3 | STATE | Tennessee | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | Item | Source | FRC | Sub-FRC | Amount | Comments |
| 7 | | | | | | |
| 8 | Residence - 2wire Aerial | | | | | |
| 9 | Material - Drop | (+inputsJ10*inputsJ32) /inputsJ10 | 22C | 01 | $ 15.661 | |
| 10 | Material - NID Interface | (+inputsJ21*inputsJ32)/inputsJ10 | 22C | 01 | $ 6.773 | |
| 11 | Material - NID Prot/Bridge | +inputsJ22*inputsJ32 | 22C | 01 | $ 8.098 | |
| 12 | Exempt Material | +inputsJ24*inputsJ32 | 22C | 01 | $ 1.113 | |
| 13 | Contractor Labor | N/A | 22C | 01 | $ - | |
| 14 | Telco - Travel Labor | +inputsJ8*inputsJ27 | 22C | 01 | $ 23.817 | |
| 15 | Telco - Install NID Labor | +inputsJ8*inputsJ28 | 22C | 01 | $ 23.817 | |
| 16 | Telco - Install & Term. Drop Labor | (+inputsJ8*inputsJ29) /inputsJ10 | 22C | 01 | $ 33.260 | |
| 17 | | | | | | |
| 18 | % Material Aerial | +inputsJ34 | 22C | 01 | 81.00% | |
| 19 | % Residence Loops With Drop | +inputsJ36 | 22C | 01 | 97.15% | |
| 20 | | | | | | |
| 21 | Weighted Material ==> | Sum(J9-J16)*J18*J19 | 22C | 01 | $ 66.82 | |
| 22 | | | | | | |
| 23 | Residence - 2wire Buried | | | | | |
| 24 | Material - Drop | (+inputsJ10*inputsJ32)/inputsJ10 | 45C | 01 | $ 33.781 | |
| 25 | Material - NID Interface | (+inputsJ21*inputsJ32)/inputsJ10 | 45C | 01 | $ 6.773 | |
| 26 | Material - NID Prot/Bridge | +inputsJ22*inputsJ32 | 45C | 01 | $ 8.098 | |
| 27 | Exempt Material | N/A | 45C | 01 | $ - | |
| 28 | Contractor Labor | +inputsJ26/inputsJ10 | 45C | 01 | $ 83.830 | |
| 29 | Telco - Travel Labor | +inputsJ8*inputsJ27 | 45C | 01 | $ 23.817 | |
| 30 | Telco - Install NID Labor | +inputsJ8*inputsJ28 | 45C | 01 | $ 23.817 | |
| 31 | Telco - Install & Term. Drop Labor | (+inputsJ8*inputsJ30) /inputsJ10 | 45C | 01 | $ 12.084 | |
| 32 | | | | | | |
| 33 | % Material Buried | +inputsJ35 | 45C | 01 | 39.00% | |
| 34 | % Residence Loops With Drop | +inputsJ36 | 45C | 01 | 97.15% | |
| 35 | | | | | | |
| 36 | Weighted Material ==> | Sum(J24-J31)*J33*J34 | 45C | 01 | $ 78.62 | |
| 37 | | | | | | |
| 38 | Business - 2wire Aerial | | | | | |
| 39 | Material - Drop | (+inputsJ10*inputsJ32)/inputsJ11 | 22C | 01 | $ 9.420 | |
| 40 | Material - NID Interface | (+inputsJ21*inputsJ32)/inputsJ11 | 22C | 01 | $ 2.773 | |
| 41 | Material - NID Prot/Bridge | +inputsJ22*inputsJ32 | 22C | 01 | $ 8.098 | |
| 42 | Exempt Material | +inputsJ24*inputsJ32 | 22C | 01 | $ 1.113 | |
| 43 | Contractor Labor | N/A | 22C | 01 | $ - | |
| 44 | Telco - Travel Labor | +inputsJ8*inputsJ27 | 22C | 01 | $ 23.817 | |
| 45 | Telco - Install NID Labor | +inputsJ8*inputsJ28 | 22C | 01 | $ 23.817 | |
| 46 | Telco - Install & Term. Drop Labor | (+inputsJ8*inputsJ29)/inputsJ11 | 22C | 01 | $ 13.617 | |
| 47 | | | | | | |
| 48 | % Material Aerial | +inputsJ34 | 22C | 01 | 81.00% | |
| 49 | % Business Loops With Drop | +inputsJ37 | 22C | 01 | 47.95% | |
| 50 | | | | | | |
| 51 | Weighted Material ==> | Sum(J39-J46)*J48*J49 | 22C | 01 | $ 23.38 | |
| 52 | | | | | | |
| 53 | Business - 2wire Buried | | | | | |
| 54 | Material - Drop | (+inputsJ10*inputsJ32)/inputsJ11 | 45C | 01 | $ 13.835 | |
| 55 | Material - NID Interface | (+inputsJ21*inputsJ32)/inputsJ11 | 45C | 01 | $ 2.773 | |
| 56 | Material - NID Prot/Bridge | +inputsJ22*inputsJ32 | 45C | 01 | $ 8.098 | |
| 57 | Exempt Material | N/A | 45C | 01 | $ - | |
| 58 | Contractor Labor | +inputsJ26/inputsJ11 | 45C | 01 | $ 38.334 | |
| 59 | Telco - Travel Labor | +inputsJ8*inputsJ27 | 45C | 01 | $ 23.817 | |
| 60 | Telco - Install NID Labor | +inputsJ8*inputsJ28 | 45C | 01 | $ 23.817 | |
| 61 | Telco - Install & Term. Drop Labor | (+inputsJ8*inputsJ30)/inputsJ11 | 45C | 01 | $ 4.982 | |
| 62 | | | | | | |
| 63 | % Material Buried | +inputsJ35 | 45C | 01 | 39.00% | |
| 64 | % Business Loops With Drop | +inputsJ37 | 45C | 01 | 47.95% | |
| 65 | | | | | | |
| 66 | Weighted Material ==> | Sum(J54-J61)*J63*J64 | 45C | 01 | $ 21.55 | |

Drop Material - 4-wire

| | A | B | D | F | H | J |
|---|---|---|---|---|---|---|
| 1 | | | DROP WIRE / NID MATERIAL | | | |
| 2 | | | | | | |
| 3 | | STATE | Tennessee | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | Item | Source | FRC | Sub-FRC | Amount |
| 7 | | | | | | |
| 8 | | Business - 4wire Aerial | | | | |
| 9 | | Material - Drop | (+Inputs.J16*Inputs.J32) / Inputs.J12 | 22C | 01 | $ 6.420 |
| 10 | | Material - NID Interface | (+Inputs.J21*Inputs.J32)/Inputs.J12 | 22C | 01 | $ 2.773 |
| 11 | | Material - NID Prot/Bridge | +Inputs.J23*Inputs.J32 | 22C | 01 | $ 16.197 |
| 12 | | Exempt Material | +Inputs.J24*Inputs.J32 | 22C | 01 | $ 1.113 |
| 13 | | Contractor Labor | N/A | 22C | 01 | $ - |
| 14 | | Telco - Travel Labor | +Inputs.J8*Inputs.J27 | 22C | 01 | $ 23.917 |
| 15 | | Telco - Install NID Labor | +Inputs.J8*Inputs.J28 | 22C | 01 | $ 23.917 |
| 16 | | Telco - Install & Term. Drop Labor | (+Inputs.J8*Inputs.J29)/Inputs.J12 | 22C | 01 | $ 13.617 |
| 17 | | | | | | |
| 18 | | % Material Aerial | +Inputs.J34 | 22C | 01 | 61.00% |
| 19 | | % Business Loops With Drop | +Inputs.J37 | 22C | 01 | 47.85% |
| 20 | | | | | | |
| 21 | | Weighted Material ==> | Sum(J9-J18)*J18*J19 | 22C | 01 | $ 26.73 |
| 22 | | | | | | |
| 23 | | Business - 4wire Buried | | | | |
| 24 | | Material - Drop | (+Inputs.J16*Inputs.J32)/Inputs.J12 | 45C | 01 | $ 13.836 |
| 25 | | Material - NID Interface | (+Inputs.J21*Inputs.J32)/Inputs.J12 | 45C | 01 | $ 2.773 |
| 26 | | Material - NID Prot/Bridge | +Inputs.J23*Inputs.J32 | 45C | 01 | $ 16.197 |
| 27 | | Exempt Material | N/A | 45C | 01 | $ - |
| 28 | | Contractor Labor | +Inputs.J26/Inputs.J12 | 45C | 01 | $ 39.334 |
| 29 | | Telco - Travel Labor | +Inputs.J8*Inputs.J27 | 45C | 01 | $ 23.917 |
| 30 | | Telco - Install NID Labor | +Inputs.J8*Inputs.J28 | 45C | 01 | $ 23.917 |
| 31 | | Telco - Install & Term. Drop Labor | (+Inputs.J8*Inputs.J30)/Inputs.J12 | 45C | 01 | $ 4.982 |
| 32 | | | | | | |
| 33 | | % Material Buried | +Inputs.J35 | 45C | 01 | 39.00% |
| 34 | | % Business Loops With Drop | +Inputs.J37 | 45C | 01 | 47.85% |
| 35 | | | | | | |
| 36 | | Weighted Material ==> | Sum(J24-J31)*J33*J34 | 45C | 01 | $ 23.17 |

| | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | **NID MATERIAL** | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | STATE | | Tennessee | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | Item | | Source | | FRC | | Sub-FRC | | Amount |
| 7 | | | | | | | | | | |
| 8 | | 2-Wire - Residence - Aerial | | | | | | | | |
| 9 | | Material - NID Interface | | (+InputsJ21*InputsJ32)/InputsJ10 | | 22C | | 01 | | $ 6.773 |
| 10 | | Material - NID Prot/Bridge | | +InputsJ22*InputsJ32 | | 22C | | 01 | | $ 8.098 |
| 11 | | Telco - Travel Labor | | +InputsJ6*InputsJ27 | | 22C | | 01 | | $ 23.917 |
| 12 | | Telco - Install NID Labor | | +InputsJ6*InputsJ28 | | 22C | | 01 | | $ 23.917 |
| 13 | | % Material Aerial | | +InputsJ34 | | 22C | | 01 | | 61.00% |
| 14 | | Weighted Material ==> | | SUM(J9.J12)*J13 | | 22C | | 01 | | $ 36.250 |
| 15 | | | | | | | | | | |
| 16 | | 2-Wire - Residence - Buried | | | | | | | | |
| 17 | | Material - NID Interface | | (+InputsJ21*InputsJ32)/InputsJ10 | | 45C | | 01 | | $ 6.773 |
| 18 | | Material - NID Prot/Bridge | | +InputsJ22*InputsJ32 | | 45C | | 01 | | $ 8.098 |
| 19 | | Telco - Travel Labor | | +InputsJ6*InputsJ27 | | 45C | | 01 | | $ 23.917 |
| 20 | | Telco - Install NID Labor | | +InputsJ6*InputsJ28 | | 45C | | 01 | | $ 23.917 |
| 21 | | % Material Buried | | +InputsJ35 | | 45C | | 01 | | 39.00% |
| 22 | | Weighted Material ==> | | SUM(J17.J20)*J21 | | 45C | | 01 | | $ 24.455 |
| 23 | | | | | | | | | | |
| 24 | | 2-Wire - Business - Aerial | | | | | | | | |
| 25 | | Material - NID Interface | | (+InputsJ21*InputsJ32)/InputsJ11 | | 22C | | 01 | | $ 2.773 |
| 26 | | Material - NID Prot/Bridge | | +InputsJ22*InputsJ32 | | 22C | | 01 | | $ 8.098 |
| 27 | | Telco - Travel Labor | | +InputsJ6*InputsJ27 | | 22C | | 01 | | $ 23.917 |
| 28 | | Telco - Install NID Labor | | +InputsJ6*InputsJ28 | | 22C | | 01 | | $ 23.917 |
| 29 | | % Material Aerial | | +InputsJ34 | | 22C | | 01 | | 61.00% |
| 30 | | Weighted Material ==> | | SUM(J25.J28)*J29 | | 22C | | 01 | | $ 35.810 |
| 31 | | | | | | | | | | |
| 32 | | 2-Wire - Business - Buried | | | | | | | | |
| 33 | | Material - NID Interface | | (+InputsJ21*InputsJ32)/InputsJ11 | | 45C | | 01 | | $ 2.773 |
| 34 | | Material - NID Prot/Bridge | | +InputsJ22*InputsJ32 | | 45C | | 01 | | $ 8.098 |
| 35 | | Telco - Travel Labor | | +InputsJ6*InputsJ27 | | 45C | | 01 | | $ 23.917 |
| 36 | | Telco - Install NID Labor | | +InputsJ6*InputsJ28 | | 45C | | 01 | | $ 23.917 |
| 37 | | % Material Buried | | +InputsJ35 | | 45C | | 01 | | 39.00% |
| 38 | | Weighted Material ==> | | SUM(J33.J36)*J37 | | 45C | | 01 | | $ 22.895 |
| 39 | | | | | | | | | | |
| 40 | | 4-Wire - Business - Aerial | | | | | | | | |
| 41 | | Material - NID Interface | | (+InputsJ21*InputsJ32)/InputsJ12 | | 22C | | 01 | | $ 2.773 |
| 42 | | Material - NID Prot/Bridge | | +InputsJ23*InputsJ32 | | 22C | | 01 | | $ 16.197 |
| 43 | | Telco - Travel Labor | | +InputsJ6*InputsJ27 | | 22C | | 01 | | $ 23.917 |
| 44 | | Telco - Install NID Labor | | +InputsJ6*InputsJ28 | | 22C | | 01 | | $ 23.917 |
| 45 | | % Material Aerial | | +InputsJ34 | | 22C | | 01 | | 61.00% |
| 46 | | Weighted Material ==> | | SUM(J41.J44)*J45 | | 22C | | 01 | | $ 40.750 |
| 47 | | | | | | | | | | |
| 48 | | 4-Wire - Business - Buried | | | | | | | | |
| 49 | | Material - NID Interface | | (+InputsJ21*InputsJ32)/InputsJ12 | | 45C | | 01 | | $ 2.773 |
| 50 | | Material - NID Prot/Bridge | | +InputsJ23*InputsJ32 | | 45C | | 01 | | $ 16.197 |
| 51 | | Telco - Travel Labor | | +InputsJ6*InputsJ27 | | 45C | | 01 | | $ 23.917 |
| 52 | | Telco - Install NID Labor | | +InputsJ6*InputsJ28 | | 45C | | 01 | | $ 23.917 |
| 53 | | % Material Buried | | +InputsJ35 | | 45C | | 01 | | 39.00% |
| 54 | | Weighted Material ==> | | SUM(J46.J52)*J53 | | 45C | | 01 | | $ 28.053 |

| | A | B | D | F | H | J | L | M |
|---|---|---|---|---|---|---|---|---|
| 1 | | | **MAIN DISTRIBUTING FRAME - INPUTS** | | | | | |
| 2 | | | | | | | | |
| 3 | | State | Tennessee | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | Item | Source | FRC | Sub FRC | Amount | Comments | |
| 7 | | | | | | | | |
| 8 | | 2-Wire MDF Material | SCIS | 377C | 03 | $ 16.6186 | Non-Integrated, Per Circuit | |
| 9 | | | | | | | | |
| 10 | | 4-Wire MDF Material | SCIS | 377C | 03 | $ 33.2372 | Non-Integrated, Per Circuit | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |



05/22/00 14:24

NO.575 P038/040

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | MAIN DISTRIBUTING FRAME - MATERIAL | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | State | | Tennessee | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | Item | | Source | | FRC | | Sub FRC | | Amount | | Comments | |
| 7 | | | | | | | | | | | | | |
| 8 | | 2-Wire MDF Material | | +Inputs!J8 | | 377C | | 03 | | $ 16.6186 | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | 4-Wire MDF Material | | +Inputs!J10 | | 377C | | 03 | | $ 33.2372 | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |



05/22/00 14:24 NO.575 P039/040

## MDF & PROTECTOR INVESTMENT PER LINE

Source: Charlotte Witter, Finance / SCIS (Analog Line Term. Inv.)

Source: George Trupworthy, Finance / Switch Weightings

| | AL | FL | GA | KY | LA | MS | NC | SC | TN |
|---|---|---|---|---|---|---|---|---|---|
| WEIGHTED LINE TERMINATION INVESTMENT | | | | | | | | | |
| 5ESS | | | | | | | | | |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| ANALOG LINE TERMINATION INV | | | | | | | | | 16.50222 |
| 5ESS | | | | | | | | | 16.79632 |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| SLC-96 MODE 1 | | | | | | | | | |
| 5ESS | | | | | | | | | |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| SLC-96 MODE 2 | | | | | | | | | |
| 5ESS | | | | | | | | | |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| SLC-96 MODE 1 ON IDCU | | | | | | | | | |
| 5ESS | | | | | | | | | |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| SLC-96 MODE 2 ON IDCU | | | | | | | | | |
| 5ESS | | | | | | | | | |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| | AL | FL | GA | KY | LA | MS | NC | SC | TN |
| | | | | | | | | | |
| Switch Weightings | | | | | | | | | 60.4% |
| 5ESS | | | | | | | | | 39.6% |
| DMS | | | | | | | | | |
| | | | | | | | | | |
| Analog Line Termination investment | | | | | | | | | |
| 5ESS | | | | | | | | | 16.50222 |
| DMS | | | | | | | | | 16.79632 |
| | | | | | | | | | |
| | | | | | | | | | |
| Analog Line Termination investment | | | | | | | | | |
| Weighted, 2-wire | | | | | | | | | 16.61662 |
| Weighted, 4-wire (Ln 43 * 2) | | | | | | | | | 33.23725 |

REQUEST: Please provide a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for line conditioning (e.g., removing load coils or bridge taps, adding or removing repeaters, rearranging outside plant facilities) offered by BellSouth. Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: BellSouth objects to Request to Produce No. 4 for the reasons set forth in its Objections filed May 10, 2000. Without waiving these objections, see response to Data Request Item No. 5.

REQUEST: Please provide a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for 2-wire analog voice grade loops. Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: BellSouth objects to Request to Produce No. 5 for the reasons set forth in its Objections filed May 10, 2000. Without waiving these objections, see BellSouth's Cost Study Filing in Docket 97-01262 (provided in POD Item No. 1).

REQUEST: Please provide a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for intrabuilding network cable (INC), riser cable and/or network terminating wire (NTW) offered by BellSouth. Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: BellSouth objects to Request to Produce No. 6 for the reasons set forth in its Objects filed May 10, 2000. Without waiving these objections, see attached and response to Data Request Item No. 10. These documents contain proprietary information and are being provided subject to the terms of the Protective Order.

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for
Production of Documents
May 3, 2000
Item No.6 Attachment

# TENNESSEE

# RISER CABLE, NETWORK TERMINATING WIRE AND LINE SHARING STUDIES

## JUNE 30, 2000

## PUBLIC VERSION

# TENNESSEE
# TABLE OF CONTENTS


## SECTION 1 EXECUTIVE SUMMARY

STATEMENT OF PURPOSE
OVERVIEW
SUMMARY OF RESULTS

## SECTION 2 STUDY METHODOLOGY

TOTAL ELEMENT LONG RUN INCREMENTAL COST (TELRIC)
RECURRING COSTS
NONRECURRING COSTS

## SECTION 3 DESCRIPTION OF MODELS AND PRICE CALCULATORS

1. TELRIC CALCULATOR©
2. CAPITAL COST CALCULATOR
3. SHARED AND COMMON COST MODEL

## SECTION 4 INPUTS - LOADINGS AND FACTORS

BELLSOUTH REGION TELEPHONE PLANT INDEXES
INVESTMENT INFLATION FACTORS
INPLANT LOADINGS
SUPPORTING EQUIPMENT AND POWER LOADINGS
LAND AND BUILDING LOADINGS
POLE AND CONDUIT LOADINGS
ANNUAL COST FACTORS
    CAPITAL RELATED COSTS
    PLANT SPECIFIC EXPENSE
    AD VALOREM AND OTHER TAXES
    GROSS RECEIPTS TAX FACTOR
DISCONNECT FACTOR
LABOR RATES
SHARED AND COMMON COST FACTORS



© 1997 BellSouth Corporation
All Rights Reserved

# TENNESSEE
# TABLE OF CONTENTS


## SECTION 5 UNBUNDLED NETWORK ELEMENT STUDIES

INTRODUCTION
LIST OF COST ELEMENTS
NARRATIVES
    ELEMENT DESCRIPTION
    STUDY TECHNIQUE
    SPECIFIC STUDY ASSUMPTIONS
TELRIC CALCULATOR© OUTPUTS
WORKPAPERS
    STUDY INPUTS
    TELRIC CALCULATOR© INPUTS
    STUDY WORKPAPERS

## APPENDIX A

BELLSOUTH REGION TELEPHONE PLANT INDEXES
  AND INVESTMENT INFLATION FACTORS
FACTORS AND LOADINGS (INPLANT, PLUG-IN, HARDWIRED,
  SUPPORTING EQUIPMENT AND POWER, PLANT SPECIFIC,
  LAND AND BUILDING, POLE AND CONDUIT)
CAPITAL COST CALCULATOR MODEL CALCULATIONS
AD VALOREM AND OTHER TAXES
STATE AND FEDERAL INCOME TAXES
DISCONNECT FACTORS
LABOR RATES

## APPENDIX B

Network Terminating Wire Supporting Files

## APPENDIX C

ELECTRONIC COPIES OF FILING, MODELS, SPREADSHEETS
AND INSTRUCTIONS (PROPRIETARY AND
NONPROPRIETARY)

# TENNESSEE
# SECTION 1
# EXECUTIVE SUMMARY

## STATEMENT OF PURPOSE

BellSouth Telecommunications, Inc. (hereinafter referred to as BellSouth or the Company) is filing cost studies for unbundled network elements (UNEs) which were ordered by the Tennessee Regulatory Authority (TRA) during the Directors Conference on May 9, 2000. Included in this document are Total Element Long Run Incremental Cost (TELRIC) studies for line sharing, riser cable and network terminating wire. These studies include shared and common costs, which comply with the orders and regulations established by the TRA in Docket No. 97-01262. The shared and common factors used in these studies are those adopted by the TRA in Docket No. 97-01262. Other factors and labor rates have been updated from the values presented in Docket No. 97-01262 to reflect a 2000-2002 study period.

**BellSouth TELRIC Calculator**
**Unbundled Network Cost Elements Summary Report**
**Tennessee**
**Combined Summary**

06/22/2000

| | Cost Element | Recurring | Testing Expressed as Recurring cost | Recurring Plus Testing | Non Recurring | Non-Recurring First | Non-Recurring Additional | Non-Recurring Initial | Non-Recurring Subsequent |
|---|---|---|---|---|---|---|---|---|---|
| A.0 | UNBUNDLED LOCAL LOOP | | | | | | | | |
| A.2 | SUB-LOOP | | | | | | | | |
| A.2.14 | Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop | $1.47 | $ 0.95 | | | $94.56 | $29.35 | | |
| A.2.15 | Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop | $2.55 | $ 1.24 | | | $116.14 | $37.10 | | |
| A.2.19 | Sub-Loop - Per Building Equipment Room - CLEC Feeder Facility Set-Up | | | | $296.60 | | | | |
| A.2.20 | Sub-Loop - Per Building Equipment Room - Per 25 Pair Panel Set-Up | | | | $103.54 | | | | |
| A.2.1498 | Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Testing | | | | | $36.18 | $10.33 | | |
| A.2.1499 | Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Disconnect | | | | | $112.04 | $18.54 | | |
| A.2.1598 | Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Testing | | | | | $52.22 | $15.49 | | |
| A.2.1599 | Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Disconnect | | | | | $118.15 | $18.92 | | |
| A.15 | UNBUNDLED NETWORK TERMINATING WIRE (NTW) | | | | | | | | |
| A.15.1 | Unbundled Network Terminating Wire (NTW) Per Pair | $0.4863 | | | $61.83 | | | | |
| A.15.199 | Unbundled Network Terminating Wire (NTW) Per Pair- Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect | | | | $0.5815 | | | | |
| J.4 | LINE SHARING SPLITTER - DATA | | | | | | | | |
| J.4.1 | Line Sharing Splitter, per System 96 Line Capacity | $183.81 | | | | $343.34 | | | |
| J.4.2 | Line Sharing Splitter, per System 24 Line Capacity | $45.95 | | | | $343.34 | | | |
| J.4.3 | Line Sharing Splitter - per Line Activation - Central Office | $3.48 | | | | $48.97 | $21.39 | | |
| J.4.4 | Line Sharing Splitter - per Subsequent Activity per Line Rearrangement | | | | | $33.30 | $15.44 | | |
| J.4.199 | Line Sharing Splitter, per System 96 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect | | | | | $333.99 | | | |
| J.4.299 | Line Sharing Splitter, per System 24 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect | | | | | $333.99 | | | |
| J.4.399 | Line Sharing Splitter - per Line Activation - Central Office - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect | | | | | $35.18 | $10.83 | | |

# TENNESSEE
# SECTION 2
# METHODOLOGY

## TOTAL ELEMENT LONG RUN INCREMENTAL COST (TELRIC)

The studies submitted with this filing adhere to the Total Element Long Run Incremental Cost (TELRIC) methodology as envisioned by the Federal Communications Commission (FCC). The basic guidelines that form the foundation of a TELRIC study are:

1) The studies should reflect a long-run perspective. Long run implies a period long enough that all costs are variable. In other words, this principle assumes all costs are avoidable in the long run.

2) Cost causation is a key concept in incremental costing. Thus, only those costs that are directly caused by the particular item being studied are considered. This principle mandates the identification of costs directly attributable to providing a "service" (network capability).

3) The increment being studied should be the entire quantity of service. This point recognizes that costs normally thought of as shared in a service-specific study, would be included in a study of a network capability. For example, in a service study, the planning engineer's costs associated with loops would be shared across many product lines, e.g. ESSX, coin, business. In an unbundled network element study, this cost would be directly attributable to the loop element.

4) Any function necessary to produce a service must have an associated cost. In essence, this guideline states that no sunk costs should be included.

5) Common overheads are not part of a long run incremental cost study. However, the FCC's TELRIC methodology allows for the recovery of "a reasonable allocation of forward-looking common costs". Thus, BellSouth has considered common costs to produce the TELRIC economic cost.

6) The technology used should reflect the least cost, most efficient technology.

7) Costs should be forward-looking.

There are two generic types of costs that have been studied: recurring and nonrecurring.

### RECURRING COSTS

The monthly costs resulting from capital investments deployed to provision network elements are called recurring costs. Recurring costs include capital and

operating costs. Capital costs include depreciation, cost of money and income tax. Operating costs include the expenses for maintenance, ad valorem and other taxes and represent ongoing costs associated with upkeep of the initial capital investment. Gross receipts tax (which includes municipal license taxes and PSC fees) is added.

The first step in developing recurring TELRIC studies is to determine the forward-looking network architecture that, when deployed, represents the most efficient design to provision the network element. The material prices for the equipment necessary to implement the forward-looking design are gathered. Next, account specific Telephone Plant Indexes (TPIs) are applied, when necessary, to trend material prices to the base study period. Telecommunications equipment and plant placements are typically "lumpy". Thus, utilization (or fill) factors are applied to the material prices to reflect BellSouth's forward-looking actual utilization of the plant. Also, when multiple vendors are used, it is necessary to determine the average material price for a typical element based on the probability of occurrence. Inflation Factors, by plant account code, are then applied to the material prices to trend the base-year material price to levelized amounts that are valid for a three-year planning period. In order to convert the material prices to installed investments, account specific inplant loadings are applied to the material prices. The inplant loadings include engineering and installation labor (both BellSouth and vendor) exempt material and sales taxes.

Supporting equipment and power loadings are added, as appropriate to specific investment accounts. Next, supporting structure investments for land, building, poles and conduit are developed. These supporting structure investments are identified by their relationship to the respective item of plant being supported. For example, applying a pole-loading factor against the aerial cable investment develops the pole investment.

2000-2002 level Annual Cost Factors are used to calculate the direct cost of capital, plant specific expenses and taxes. Account specific factors for each Uniform System of Accounts – Field Reporting Code (USOA-FRC) are applied to the investment by account code, yielding an annual cost per account code. Account specific shared cost factors are applied to produce forward-looking TELRIC costs. Then the common cost allocation factor and the gross receipts tax factor are applied. The result is the monthly economic cost.

The generic steps for developing recurring cost can be summarized as shown below. The unique technical characteristics and physical makeup of each service cost element must be taken into consideration.

# TENNESSEE
# SECTION 2
# METHODOLOGY

Step 1: Determine the forward looking network designs (architectures) which will be used in deployment of the network element.

Step 2: Determine current material prices for the items of plant used in each design. Material prices are obtained from BellSouth contracts with various vendors.

Step 3: Apply material Telephone Plant Indexes (TPIs) as appropriate to determine the base year material prices. Material TPIs estimate the changes in material prices over time.

Step 4: Adjust the material prices for utilization to account for spare capacity using a reasonable projection of actual total usage.

Step 5: Weight the material prices, as appropriate, to determine the average material price for a typical element by USOA-FRC, i.e., plant account.

Step 6: Apply material inflation factors, referred to as levelization factors, to the material prices to convert the utilized base year material prices to material prices representative of a three year planning period.

Step 7: Apply inplant loadings to the levelized material prices to convert the material prices to an installed investment, which includes the cost of material, engineering labor and installation labor.

Step 8: Apply support loadings to the investments to determine investments for support equipment and power, land, buildings, poles and conduit as appropriate.

Step 9: Convert the investments by FRC to annual costs by applying account specific TELRIC annual cost factors to the various investments. The annual cost factors calculate the capital costs (depreciation, cost of money, and income tax) and operating expenses (plant specific expense, ad valorem taxes, and other taxes). Add the annual costs for the various FRCs. Next divide by 12 to determine the direct monthly cost.

Step 10: Apply the shared cost (account specific) factors. Then apply the gross receipts tax factor. The result is TELRIC.

Step 11: Apply the common cost allocation factor to determine economic costs.

# TENNESSEE
# SECTION 2
# METHODOLOGY

## NONRECURRING COSTS

Nonrecurring costs are one-time expenses associated with provisioning, installing and disconnecting a network capability. These costs include four major categories of activity: service order processing, engineering, connect and test, and technician travel time. Examples of the work activities in each of these categories are:

Service Order Processing - Prepare and issue service orders
Engineering - Assign cable and pair; design circuit; order plug-in; perform translations in the switch
Connect and Test - Install circuit; test circuit; disconnect
Technician Travel Time - Travel to the customer's premises

The first step in developing nonrecurring costs is to determine the cost elements associated with the network capability. These cost elements are then described by the individual activities required to provision the cost element. Individuals familiar with the network capability identify which activities are applicable. Subject matter experts identify the amount of time required to perform the task and also determine the probability that the activity will occur. Provisioning costs are developed by multiplying the work time for each work function by the labor rate for the work group performing the function.

Utilizing work functions, work times, and labor rates, disconnect costs are calculated in the same manner as the installation costs.

The generic steps for developing nonrecurring costs are summarized in the following steps:

Step 1: Determine the cost elements to be developed.
Step 2: Define the work functions.
Step 3: Establish work flows.
Step 4: Determine work times for each work function.
Step 5: Develop labor costs for each work function (labor rate x work time).
Step 6: Accumulate work function costs to determine the total nonrecurring costs for each cost element. Add gross receipts tax. The result is TELRIC.
Step 7: Apply the Common Cost Allocation factor to determine the economic costs.

The TELRIC Calculator©, a model developed by BellSouth, produces long run incremental cost studies. The model was designed to accept variable inputs that are applied according to a user-controlled matrix. The TELRIC Calculator© was used to produce the TELRIC studies included in this filing. Additionally, this is the same model presented to the TRA in Docket No. 97-01262.

# TENNESSEE
# SECTION 3
# DESCRIPTION OF MODELS AND PRICE CALCULATORS

## 1. TELRIC Calculator©

The TELRIC Calculator© consists of three Microsoft Excel templates. The templates consist of twenty-one sheets each, eight for receiving input data and thirteen for calculations. All templates perform calculations in exactly the same manner and differ only in the number of decimal places displayed. It should be noted that no rounding is done in any of the sheets.

The TELRIC Calculator© User Interface takes information from the default data sources or from the user-modified sources and inputs them into the appropriate template depending on the cost element selected. Investments are entered by Field Reporting Code (FRC), Sub Field Reporting Code (Sub-FRC), and cost element number into the sheet called "Investments". The sub-FRC is used by the TELRIC Calculator© to determine the appropriate application of factors and loadings, which are applied based on a matrix contained in "Factor Matrix". Factors and loadings are placed by FRC on the sheet labeled "Factors". Recurring and nonrecurring work times are placed by function and Job Function Code (JFC) or Payband into the sheets labeled "Recurring Labor" and "Nonrecurring Labor", respectively. Other recurring and nonrecurring expenses are entered by description into the sheet called "Additives". Lastly, direct labor rates are placed by JFC or Payband into the sheet called "Labor Rates".

The inputs then flow automatically through the "calculator" portions of the template. These sheets are labeled TELRIC Recurring Summary, INVEST-VS, INVEST-VI, LBPC-VS, LBPC-VI, FRCTELRIC-VS, FRCTELRIC-VI, RECEXP, TELRIC NRC Summary A, NR-NR, TELRIC NRC Summary B, NR-1A, and NR-IS. The function and detail of these sheets are outlined in the following narrative.

### TELRIC Calculator© Recurring Worksheets

**Investment Development (Excluding Land, Building, Pole, & Conduit)**
Investment development begins in the worksheets INVEST-VS and INVEST-VI, where volume sensitive and volume insensitive investments by FRC and sub-FRC flow from the input sheets. The inflation factors, inplant loadings and supporting equipment and/or power loadings are applied, if applicable. As stated previously, the application of these factors/loadings is driven by a matrix contained within the template. If the factor/loading is not applicable to the FRC and sub-FRC, the investment is multiplied by the default value of one. All calculations are detailed above each cell. These investments flow to the Land,

Building, Pole, & Conduit Development sheet and to the Recurring Cost Development sheet.

**Land, Building, Pole, & Conduit Investment Development**
Investments from the Investment Development sheets flow into the sheets LBPC-VS and LBPC-VI. These worksheets apply land, building, pole, and conduit loadings to the investments. Land, building, pole, and conduit investments carried from the Investment Development sheets are multiplied by a factor of one. If one or all of these factors do not apply to an FRC, excluding land, building, pole, and conduit FRCs, the factor defaults to zero. The results are then summed and totaled at the top of the sheet and flow to the next sheet. All calculations are detailed above each cell.

**Recurring Cost Development**
The investments from the Investment Development and the Land, Building, Pole, and Conduit Investment Development sheets are summed to the FRC level and flow into the sheets called FRCTELRIC-VS and FRCTELRIC-VI. These sheets apply depreciation, cost of money (COM), income tax, plant specific, and ad valorem tax factors to the investments. If a factor does not apply, the default is zero. These results are then summed to produce direct cost. All calculations are detailed above each cell. The shared cost factor is applied to the investments to produce shared cost and then added to direct cost to produce TELRIC. The user has the option of designating the type of cost produced, e.g. whether the final cost is billed on a monthly basis or on a per minute of use (MOU) basis. Thus, if the input investments are annual investments, the resulting cost outputs are divided by twelve to produce monthly costs. The results then flow to the summary sheet. The common cost factor is applied on the summary sheet to produce economic cost.

**Recurring Labor Expense Development**
Recurring labor work times flow to the worksheet called RECEXP. The times are associated with a work function and a JFC or Payband. The associated direct labor rates, and TELRIC labor rates, determined by the JFC or Payband, are applied to the work times to produce both the direct expenses and TELRIC expenses. These expenses flow to the summary sheet. All calculations are detailed above each cell.

**Recurring Cost Development**
Recurring direct costs from sheets FRCTELRIC-VS and FRCTELRIC-VI, recurring direct expenses from sheet RECEXP, and other expenses from the input sheet "Additives" flow to the sheet called TELRIC Recurring Summary. All costs and expenses are summed to a total cost. This cost is then multiplied by

Gross Receipts Tax and Common Cost factors to obtain the volume sensitive and volume insensitive recurring costs. These two costs are summed to produce economic costs.

All, some, or none of the previously described recurring cost development sheets will be included with a cost element, depending on their applicability.

**TELRIC Calculator© Nonrecurring Worksheets**

**Nonrecurring Cost Development**
Installation and disconnect work times by work function and JFC or Payband flow from the input sheet "Nonrecurring Labor" to the three nonrecurring cost development sheets called NR-NR, NR-1A, and NR-IS. The three sheets exist to accommodate different types of nonrecurring charge structures. The sheet NR-NR develops cost for a single nonrecurring charge, the sheet NR-1A develops cost for charges which are first and additional, and the sheet NR-IS develops cost for charges which are initial and subsequent. Only one of these three sheets is populated with actual work times for a cost element; the other sheets receive work time values of zero. The cost development methodology is the same for all three sheets.

The TELRIC Calculator© User Interface calculates the disconnect factor and places this factor into the "Factors" input sheet which causes it to flow to the three nonrecurring cost development sheets. Disconnect factors are used to develop the present value of a labor cost that will take place in the future. The interface develops this factor by first locating the factor associated with the study midpoint date in the working database. The end-point date is then determined by adding the cost element life, in months, to the midpoint date. The factor associated with this date is then divided by the midpoint factor. If there is no cost element life indicated (i.e., value equals zero), the disconnect factor is one. If the disconnect cost is to be collected at the time of disconnect, a future value is calculated. Disconnect cost is not converted to a present value.

To develop the direct cost, the appropriate direct labor rate for the JFC or Payband is applied to the installation and disconnect work times for each function to produce the install cost and the disconnect cost. The costs then flow to the appropriate summary sheet. All calculations are detailed above each cell.

To develop the TELRIC cost, the appropriate TELRIC labor rate for the JFC or Payband is applied to the installation and disconnect work times for each function to produce the install TELRIC and the disconnect TELRIC. The steps are then the same as those for developing the direct cost.

# TENNESSEE
# SECTION 3
# DESCRIPTION OF MODELS AND PRICE CALCULATORS

**Nonrecurring Cost Development**
Nonrecurring direct costs from sheets NR-NR, NR-1A, NR-IS, and other expenses from the input sheet "Additives" flow to the sheets called "TELRIC NRC Summary A" and "TELRIC NRC Summary B". The first sheet summarizes a single nonrecurring cost; the second sheet summarizes first and additional costs or initial and subsequent costs. Costs and expenses are summed to a total cost. This cost is then multiplied by Gross Receipts Tax and Common Cost factors to produce the nonrecurring economic costs.

Depending on the structure of the nonrecurring cost, only two of the cost development sheets will be included with a cost element. The sheets NR-NR and TELRIC NRC Summary A will be included with the single cost structure. The sheets NR-1A and TELRIC NRC Summary B will be included with the first and additional cost structure. The sheets NR-IS and TELRIC NRC Summary B will be included with the initial and subsequent cost structure. The previously described nonrecurring cost development sheets will not be included with a cost element for which nonrecurring costs are not applicable.

## 2. Capital Cost Calculator

The Capital Cost Calculator is a Visual Basic model designed by BellSouth. It was developed to provide a process that is open, understandable and easily verifiable. The calculator output determines annual capital cost factors by FRC. The calculator produces depreciation, cost of money and income tax factors which are applied to investments to calculate the capital costs. See Section 4, Annual Cost Factors, for discussion of depreciation, cost of money and income tax factors.

The Capital Cost Calculator provides the user with the ability to use and modify a set of input variables. The input variables are: debt ratio, cost of money, debt interest rate, corporate income tax rate, net salvage ratio and economic life of assets. The calculator is designed with on-screen instructions and options which allow the user to view or modify the input section and view or print the calculations. Calculations are automatic when input variables are modified. Explanatory notes are included in each column heading and footnotes are included at the bottom of the calculations.

# TENNESSEE
# SECTION 3
# DESCRIPTION OF MODELS AND PRICE CALCULATORS

The overall cost of capital of 9.92% used in these studies was approved by the TRA in their order in Docket No. 97-01262.

ILLUSTRATIVE CAPITAL COST CALCULATIONS:

The following is an illustrative calculation of capital costs, the inputs, and resulting capital cost factors:

CAPITAL COST ILLUSTRATIVE CALCULATION - UNDERGROUND CABLE METALLIC 5C

Inputs:

r = Debt Ratio = .40
$i_d$ = Debt Interest Rate = .0650
t = Composite Income Taxes = .3857
Economic Life = 12 Years

i = Composite Cost of Money = .1125
n = Periods = 12
Net Salvage = -.08

1) Calculate Annuity of a Present Amount (A/P):

$$A/P = \frac{i(1+i)^n}{(1+i)^n - 1}$$

$$A/P = \frac{.1125(1+.1125)^{12}}{(1+.1125)^{12} - 1}$$

A/P = .1558662) Calculate Present Worth of Net Salvage ($S_{pw}$):

$$S_{pw} = \frac{\text{Net Salvage}}{(1+i)^n}$$

$$S_{pw} = \frac{-.08}{(1+.1125)^{12}}$$

$S_{pw}$= -.022258

3) Calculate PHI factor:

$$\Phi = \frac{t}{1-t} \times \left(1 - \frac{r(i_d)}{i}\right)$$

$$\Phi = \frac{.3857}{1 - .3857} \times \left(1 - \frac{.40(.0650)}{.1125}\right)$$

$\Phi = .482762$

4) Calculate Depreciation Expense Factor:

Depreciation Expense Factor = (1 - Net Salvage)/Economic Life

Depreciation Expense Factor = (1 - (-.08))/12

Depreciation Expense Factor = .090000

5) Calculate Cost of Money Factor:

Cost of Money Factor=Annuity of a Present Amount X (1- $S_{pw}$) - Depreciation Exp Factor

Cost of Money Factor = .155866 X (1 - ( -.022258)) - .090000

Cost of Money Factor = .069335

6) Calculate Income Tax Factor:

Income Tax Factor = Cost of Money Factor X PHI Factor

Income Tax Factor = .069335 X .482762

Income Tax Factor = .033472

7) Summary of Capital Cost Factors:

| | |
|---|---|
| Depreciation Expense Factor | .090000 |
| Cost of Money Factor | .069335 |
| Income Tax Factor | .033472 |
| Total Capital Cost Factors | .192807 |

# TENNESSEE
# SECTION 3
# DESCRIPTION OF MODELS AND PRICE CALCULATORS

## 3. Shared and Common Cost Model

The Shared and Common Cost Model used in this filing is the version adopted by the TRA in Docket No. 97-01262.

# TENNESSEE
# SECTION 4
# INPUTS - LOADINGS AND FACTORS

## BELLSOUTH REGION TELEPHONE PLANT INDEXES

The BellSouth Region Telephone Plant Indexes (TPIs) are used in cost studies to quantify the change in the material price and/or installed investment from a previous year to the current year. The TPIs are price indexes which measure the relative changes in the prices BellSouth pays for the construction of telephone plant between specific periods of time. A TPI is an average of prices, or of price relatives at specific points or periods of time, constructed for a specific purpose. It should also be noted that TPI forecasts are forecasts of price changes of equipment that is being installed. They are not intended to be forecasts of technology changes or productivity improvements.

Joel Popkin and Company, as BellSouth consultants, assists BellSouth's Network Department with the development of the TPIs. In general, the methodology uses econometric techniques to establish a mathematical relationship between the historical movement in each of the labor and materials components that make up the TPIs and the historical movement in the explanatory variables. The explanatory variables are usually aggregate measures of the U.S. economy, such as price deflators from the national income and product accounts, the U.S. union wage rate, copper prices and other macroeconomic variables. What these economic techniques provide is a systematic, quantifiable statement of what has happened in the past. Use of those relationships implicitly makes the assumption that history will more or less repeat itself. It is important to re-estimate the relationships as new index values are added each year.

A summary of Labor TPIs and TPIs by account is included in Appendix A.

## INVESTMENT INFLATION FACTORS

Over the life of an investment, inflation causes fluctuations in the forward-looking investment amount. The investment amount should be levelized over the time period in which the study results will be used (i.e., over the planning period). Investment inflation factors by account are used to trend plant investment in base year dollars to a levelized amount that is valid for a specific planning period of either two or three years as appropriate. The investment inflation factors are the cumulative average of the years projected inflation rates from the BellSouth Region TPIs. When the base year investment amount is multiplied by the investment inflation loading, the result is a forward-looking investment that is representative for the appropriate planning period.

A worksheet showing the development of the levelized Investment Inflation Factors used in these studies is included in Appendix A.

# TENNESSEE
# SECTION 4
# INPUTS - LOADINGS AND FACTORS

## INPLANT LOADINGS

The InPlant Loading adds engineering and installation labor and miscellaneous equipment to the material price and/or vendor installed price; that is, the InPlant Loading converts the material price to an installed investment. The installed investment is the dollar amount that is recorded in the capital accounts. InPlant loadings are account specific and are developed for each of the nine states. There are two types of inplant loadings used in these studies: 1) Material Loading, 2) Telco Loading. The Material Loading is applied to a material price and the Telco Loading to the vendor installed investment. The data sources are the 1998 State and Local Sales Taxes, Resource Tracking Analysis and Planning (RTAP) System, and Special Report/File 542 - 1998 Investments.

A summary of the InPlant Loadings used in these studies and worksheets showing their development are included in Appendix A.

## SUPPORTING EQUIPMENT AND POWER LOADINGS

Supporting Equipment and Power Loading factors are used to calculate the incremental investment for such items as power equipment (rectifiers, power supplies, batteries, some fuse panels and emergency power generators), distributing frames, ladders, tools, alarms and test sets, required to support an additional dollar of central office (CO) investment. The Supporting Equipment and Power Loadings are developed from investment data obtained from a 1998 Central Office Monthly Allocation Process (COMAP) extract of power and supporting equipment.

A summary worksheet showing the development of Supporting Equipment and Power Loadings is included in Appendix A.

## LAND AND BUILDING LOADINGS

Land and Building Loadings are translators used to determine the amount of investment in land and building associated with central office investment. Ratios are developed between land investments and central office equipment investments and between building (central office) investments and central office equipment investments.

In order to develop these ratios, regulated investment dollars are taken from extracts from BellSouth financial systems for the years ending 1997 and 1998. The EOY investments are averaged to develop an average investment level for 1998. The

projected view of 1999 through 2002, from Network, is based on plant additions less retirements and is added to the 1998 EOY investment levels. Current Cost Factors are applied to average 1998 investment levels only. Projected net additions for 1999 through 2002 are added to represent the current forward looking period (2000 – 2002).

The 2000 through 2002 land and building projected investments are added, multiplied by the percent of land and building associated with central office equipment, and each is respectively divided by the three years of total central office equipment to derive the loading factors.

Worksheets showing the development of Land and Building Loadings used in these TELRIC studies are included in Appendix A.

## POLE AND CONDUIT LOADINGS

Pole and conduit loadings are translators used to determine the amount of investment in poles and conduit associated with aerial and underground cable investment.

The pole loading is developed by comparing the investment in poles to the investment in aerial cable. A ratio is then developed that allows each dollar of aerial cable investment to include a fraction of the pole investment. The conduit loading is developed by comparing the investment in conduit to the investment in underground cable. A ratio is then developed that allows each dollar of underground cable investment to include a fraction of the conduit investment.

The regulated investment dollars used in developing these factors are taken from extracts from BellSouth financial systems for the years ending 1997 and 1998. The projected view of 1999 through 2002 received from Network is based on plant additions less retirements and is added to the 1998 EOY investment levels. Current Cost Factors are applied to 1998 average investment levels only. Projected net additions for 1999 through 2002 are added to represent the current forward looking period. The pole loading is developed by dividing three years cumulative pole investment by three years cumulative aerial cable investment. The conduit loading is developed by dividing three years cumulative conduit investment by three years cumulative underground cable investment.

A worksheet showing the Pole and Conduit Loadings development is included in Appendix A.

# TENNESSEE
# SECTION 4
# INPUTS - LOADINGS AND FACTORS

## ANNUAL COST FACTORS

### GENERAL

Annual cost factors are translators used to determine the amount of recurring cost for one year associated with acquiring and using a particular piece of investment. Annual cost factors were developed for each category of plant investment for each state. When the dollar amount for a particular piece of investment is multiplied by the annual cost factor for that particular category of plant investment, the product reflects the annual recurring cost incurred by the company for that particular piece of investment. There are basically two types of cost associated with investment: capital related costs and operating related costs.

The initial purchase price of plant equipment and any installation costs are paid with a combination of investor supplied funds and retained earnings. The investors who provide the "loan" may be either bondholders or stockholders. The plant placed must be able to generate enough revenues to cover capital costs associated with its placement and usage. Capital related costs consist of three major categories: depreciation, cost of money, and income tax. The capital related cost factors are developed using the Capital Cost Calculator, which uses various financial data and plant investment characteristics to compute the annual capital costs by category of plant.

Plant investments must also be maintained to provide for continuing operations. Ordinary repairs and maintenance, as well as rearrangements and changes, are necessary costs for all categories of plant (except land) in order to provide proper service. These maintenance costs, as well as ad valorem taxes and other taxes must be covered by the revenues received from the use of the asset. The operating related cost factors are developed using various spreadsheets, which basically compute the annual operating related costs by category of plant, and divide that amount by the investment in that category of plant.

### CAPITAL RELATED COSTS

DEPRECIATION - the allocation of the initial plant investment over the years service provided by the plant. Depreciation is determined by the total investment, less net salvage, divided by the estimated life of the investment. Depreciation lives and salvage values used in this filing were established by the TRA in its Order in Docket No. 97-01262.

# TENNESSEE
# SECTION 4
# INPUTS - LOADINGS AND FACTORS

COST OF MONEY - the annual cost to the firm of the debt and equity on capital invested in the business. This annual cost is determined in the financial market as it represents the investors' expected return on their investment. The cost of money used in this filing was established by the TRA in its Order in Docket No. 97-01262.

INCOME TAX - the composite of income taxes paid to the Federal and state governments based on the taxable net income of the company.

## OPERATING RELATED COSTS

PLANT SPECIFIC EXPENSE - the expense required to keep existing telephone plant, circuits, and service up to standards, as well as rents paid for facilities. This includes trouble clearing, rearrangements, and replacing defective elements.

AD VALOREM AND OTHER TAX - tax levied by city and county governments based on the assessed value of property. This includes property taxes, capital stock taxes, and other taxes.

## FACTOR DEVELOPMENT - CAPITAL COST

Depreciation is the allocation of the initial plant investment over the years of service provided by the plant. The straight-line method requires that the difference between gross investment and net salvage be spread ratably over the life of the plant. The straight-line depreciation expense rate is calculated as follows:

$$\frac{\text{Initial Investment - (Gross Salvage - Cost of Removal)}}{\text{Life of Investment}}$$

Cost of money is the amount of money which must be paid to investors for the use of investor supplied funds. This amount to be paid investors is the annual cost to the company of the debt and equity capital invested in the company. Cost of money is determined in part by the financial market and, as it represents the investors' expected return on their investment, and may differ considerably from the actual earnings a company generates. The overall cost of money rate provided by BellSouth Treasury depends on the cost of equity financing, the cost of debt financing, and the debt to equity ratio of the capital structure of the company.

Income tax expense is the federal and state taxes levied on "taxable income." For income tax purposes, what is considered gross income and what expenses are deductible are defined by laws and codes. The income tax factor is developed using the PHI factor. The PHI factor assumes that tax depreciation equals book depreciation (i.e., no depreciation-related tax timing differences), but dividends paid to stockholders

are not tax deductions (nor are they accounting expenses). Interest paid to bondholders is a booked expense and deductible for income tax purposes. A company must pay income taxes on the equity portion of return, but the debt portion is tax-exempt. The PHI factor is calculated as follows:

$$\Phi = \frac{\text{Composite Income Tax Rate}}{1 - \text{Composite Income Tax Rate}} \times \left(1 - \frac{\text{Debt Ratio x Debt Rate}}{\text{Cost of Money Rate}}\right)$$

Capital Cost Calculator Model calculations are included in Appendix A.

## FACTOR DEVELOPMENT - OPERATING RELATED

### PLANT SPECIFIC EXPENSE

The plant specific expense factor, which includes the cost of material used and direct labor, is a ratio developed to reflect the expenses for plant category by the respective investment. The factor also includes maintenance-type expenses for existing plant that cannot be directly assigned to a given plant category, such as transmission power, when applicable. Certain amounts have been excluded from the appropriate categories of plant, specifically service order activity-related expenses. These costs are excluded because: 1) they should be separately identified for each service, or 2) they should be included in nonrecurring cost studies. The maintenance expenses used in calculating the Plant Specific Expense Factors include those associated with the following types of operations:

(a) inspecting and reporting on the condition of plant investment to determine the need for repairs, replacements, rearrangements and changes

(b) performing routine work to prevent trouble

(c) replacing items of plant other than retirement units

(d) rearranging and changing the location of plant not retired

(e) repairing material for reuse

(f) restoring the condition of plant damaged by storms, floods, fire and other casualties (other than the cost of replacing retirement units)

(g) inspecting after repairs have been made

(h) only salaries, wages and expense associated with plant craft and work reporting engineers, as well as their immediate supervision and office support.

The plant specific expense factors are developed in personal computer spreadsheets. The factors are based on three years of projected expense and investment data. The 1998 expenses used in the study were pulled from the Cost Separations System (CSS). Rent expense is excluded from building expense; net rent (rent revenue less rent expense) is included in pole and conduit expenses. Projected view data was obtained from the Finance Budget Group for the expenses for 2000 through 2002 and spread based on actual expenses. Service order-related expenses were excluded from the study because such expenses are recovered in a direct manner rather than through the use of a factor. The 2000 through 2002 projected expense amounts are averaged to represent the projected annual expense.

The investment dollars are 1998 actuals and projected 1999 through 2002 from Network. The 1998 dollars were taken from the Investment Over Accumulated Depreciation Report for mid and end of year and adjusted by applying a current cost to book cost ratio. The projected investments are based on plant additions less retirements. The projected net additions for each year are added to 1998 adjusted investment to arrive at the total projected investment. The projected investments for 2000 - 2002 are then summed and divided by three to obtain the average annual investment. Expenses are then divided by the investments, resulting in the unloaded plant specific expense factors. Power expense loadings are then added to the factors for central office equipment investment. These plant specific expense factor calculations result in a factor for each category of plant representative of the average expense per investment expected in the future for each plant category.

Worksheets showing the development of the Plant Specific Expense Factors used in these studies are included in Appendix A.

## AD VALOREM AND OTHER TAXES

The ad valorem and other tax factor is an effective tax factor furnished by the BellSouth Tax Department. The BellSouth Tax Department develops the factor by calculating the ratio of certain tax expenses to the telephone plant in service, as follows:

$$\frac{\text{Accounts } 7240.1000 + 7240.3000 + 7240.9000}{\text{Telephone Plant In Service}}$$

Account 7240.1000 includes taxes levied upon the assessed value of property.

Account 7240.3000 includes taxes levied upon the value or number of shares of outstanding capital stock, upon invested capital, upon rate of dividends paid, etc.

Account 7240.9000 includes other nonincome, nonrevenue taxes such as municipal license taxes, state privilege taxes, state self-insurer's tax, etc.
A summary of ad valorem and other tax and gross receipts tax factors used in these studies is included in Appendix A.

## GROSS RECEIPTS TAX FACTOR

Some states and municipalities tax the revenues that a company receives from services provided within the state/municipality. The taxes may be designed to fund such things as PSC fees, franchise taxes, license taxes, or other similar items, but because the taxes are levied on the basis of revenues, they are commonly referred to as a gross receipts tax. Unlike some taxes that are billed to the customer and flowed through to the taxing authority, a gross receipts tax is a cost of doing business to BellSouth.

The BellSouth Tax Department provides the effective tax rate at which BellSouth is charged by the taxing authority and that rate is "grossed up" to reflect the following formula:

$$\frac{\text{GROSS RECEIPTS TAX RATE}}{(1 - \text{GROSS RECEIPTS TAX RATE})}$$

A summary of ad valorem and other tax and gross receipts tax factors used in these studies is included in Appendix A.

## DISCONNECT FACTORS

Disconnect factors are translators used to determine the costs associated with disconnecting a service. These factors are developed because there is a difference in time between when a service is disconnected and when BellSouth recovers this disconnect cost. Disconnect costs are typically included in the one-time up front service establishment charges. The customer is billed now for work that will be done in the future.

The calculation of the disconnect factors is based on the following data: the expected life of the service being studied and an interest rate that is comparable to the highest rate BellSouth is required to pay its customers for customer deposit payments held by BellSouth. The disconnect factor inflates the labor cost to the period of the future

disconnect and discounts these costs to the present. Disconnect factors are calculated by month for twelve years for the company on a regional basis. The data sources for these factors are the 1998 forecasted labor inflation rates from the BellSouth Region TPIs and a discount rate based on simple interest calculations.

If disconnect costs are recovered at the time of disconnect, the factor equals the inflation portion of the Disconnect Factor.

Disconnect factor worksheets are included in Appendix A.

## LABOR RATES

Labor rates for specific work groups are developed annually based on extracts of previous year's data from the Financial Front End System. This extract collects labor expense and hours and a PC application processes the information to produce labor rates. During processing, the actual costs for a given work group are accumulated by expenditure type (e.g., direct labor productive, premium, other employee, etc.). These actual costs are divided by the actual hours (classified productive hours for plant and engineering work groups and total productive hours for cost groups) reported by work group to determine the basic rates. The base year of labor rate data collection was the 1998 calendar year. A labor inflation factor is developed from the BellSouth Region TPIs and is applied to inflate these rates to the study period 2000-2002. The actual labor rate inflation development process can be seen under the inflation factor tab of the Labor Rate file in Appendix A.

LABOR RATE COMPONENTS:
The following are various cost components that make up labor rates:

DIRECT SALARIES AND WAGES

1. Direct Labor - Productive (RESOURCE TYPE CODE (RTC) 111, 121)
   Represents the wage and salary costs associated with work reporting employees for regularly scheduled time and overtime spent performing productive work. Also includes the costs of salaries paid to management employees when performing productive work. Classified and unclassified productive hours are used as the basis for Direct Labor Costs.

2. Direct Labor - Premium (RTC 122)
   Represents the wage and salary costs associated with premium hours paid for hours worked beyond the normally scheduled work period.

3. Direct Labor - Other Employee (RTC 199, 19B, 19C, 193)
   Covers the costs associated with the periodic incentive compensation payments made to management employees based on corporate service and financial performance, the annual bonus paid to non-management employees, all costs associated with commissions paid to employees, cash awards paid for any approved program, etc.

4. Direct Labor - Annual Paid Absence (RTC 132, 19E)
   Identifies the cost of payments to be made over the year to occupational work reporting employees for accrued costs of holidays, vacations, and excused days.

5. Direct Administration (RTC 111, 121, 122, 199, 19B, 19C, 19E, 193, 132)
   Identifies the costs of salaries paid during the month to the first level of supervision responsible for supervising occupational work reporting employees, and salaries and wages paid to employees and immediate supervisors who perform basic office services for occupational work reporting employees. Also included are the wages paid to occupational work reporting employees loaned to perform supervisory or clerical functions.

6. Other Tools - Salaries (RTC CQR )
   Identifies the salary portion of the distributed costs associated with tools.

7. Motor Vehicles - Salaries (RTC CQM)
   Identifies the salary portion of the plant motor vehicle expenses distributed to construction, removal or plant specific operations expense accounts based on the classified productive hours of the labor groups using the motor vehicles.

OTHER DIRECT

1. Direct Labor - Other Costs (Various RTCs)
   Identifies the costs incurred for office, traveling and other costs of employees whose wage and salary costs are direct labor.

2. Other Tools - Benefits (RTC CQS)
   Identifies the distributed benefits costs associated with tools.

3. Other Tools - Rents (RTC CQK)
   Identifies the distributed rent costs associated with tools.

4. Other Tools - Other (RTC CQL)
   Identifies the distributed other expense costs associated with tools.

5. Motor Vehicles - Benefits (RTC CQN)
   Identifies the benefits portion of the plant motor vehicle expenses distributed to construction, removal or plant specific operations expense accounts based on the classified productive hours of the labor groups using the motor vehicles.

6. Motor Vehicle - Rents (RTC CQP)
   Identifies the rents portion of the plant motor vehicle expenses distributed to construction, removal or plant specific operation expense accounts based on the classified productive hours of the labor groups using the motor vehicles.

7. Motor Vehicle - Other (RTC CQQ)
   Identifies the other costs portion of the plant motor vehicle expenses distributed to construction, removal or plant specific operations expense accounts based on the classified productive hours of the labor groups using the motor vehicles.

8. Benefits (RTC KB1)
   Identifies amounts for the payroll related benefits and taxes. These costs include pension accruals; company matching portion of savings plan; dental, medical, and group insurance plan reimbursements; and company portion of social security and unemployment payroll taxes.

TOTAL PRODUCTIVE HOURS

1. Classified Productive Hours
   Hours of work reporting employees which are reported to final accounting classifications.

2. Unclassified Productive Hours
   The working hours of plant work reporters devoted to activities of such a general nature as to not be assignable to specific accounting classifications. Unclassified activities include: attending conferences or meetings (including travel time) which are general in nature; attending first aid classes or safety meetings; paid time spent on union activities; paid time spent on quality of work life activities; time spent in a classroom (including travel time) for general or job specific training; and other unclassified activities such as attending assessment centers.

Labor Rate worksheets are included in Appendix A.

# TENNESSEE
# SECTION 4
# INPUTS - LOADINGS AND FACTORS

## SHARED AND COMMON COST ALLOCATION FACTORS

The Shared and Common Cost factors used in this filing are the factors adopted by the TRA in Docket No. 97-01262.

# TENNESSEE
# UNBUNDLED NETWORK ELEMENT STUDIES

## INTRODUCTION

This section contains a description of cost elements and an overview of the study process for each category of elements studied by BellSouth. Additionally, inputs and workpapers for each individual UNE are provided.

The studies included in this filing are all based on a three (3) year study period (2000 - 2002). All long run costs associated with providing the service cost elements are identified and included in the TELRIC studies.

The following pages contain a listing of the unbundled network cost elements provided in this filing package. Each cost element is represented by a designated cost element number that is referenced throughout the studies.

Testing costs are identified as separate costs and included in recurring rates as indicated on the summary report.

Following this listing are the narratives for each category of cost elements describing the elements, study technique, and specific study assumptions. After the narratives are the TELRIC Calculator© outputs. Following the outputs, Microsoft Excel spreadsheets containing the inputs and workpapers are included. In some instances, the spreadsheet may contain inputs and workpapers for several cost elements. In such situations, the file is provided in order of the first cost element number contained in that file.

# TENNESSEE
# UNBUNDLED NETWORK ELEMENT STUDIES

| | | Filename |
|---|---|---|
| **A.2** | **SUB-LOOP** | |
| A.2.14 | Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop | tninbc.xls |
| A.2.15 | Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop | tninbc.xls |
| A.2.19 | Sub-Loop - Per Building Equipment Room - CLEC Feeder Facility Set-Up | TN-USL.xls |
| A.2.20 | Sub-Loop - Per Building Equipment Room - Per 25 Pair Panel Set-Up | TN-USL.xls |
| A.2.1498 | Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Testing | tninbc.xls |
| A.2.1598 | Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Testing | tninbc.xls |
| A.2.1499 | Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Disconnect | tninbc.xls |
| A.2.1599 | Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Disconnect | tninbc.xls |
| **A.15** | **UNBUNDLED NETWORK TERMINATING WIRE (NTW)** | |
| A.15.1 | Unbundled Network Terminating Wire (NTW) Per Pair | tnuntw.xls |
| A.15.199 | Unbundled Network Terminating Wire (NTW) Per Pair-Incremental Cost - Manual Svc. Order vs. Electronic–Disconnect | tnuntw.xls |
| **J.4** | **LINE SHARING SPLITTER - DATA** | |
| J.4.1 | Line Sharing Splitter, per System 96 Line Capacity | TNLineSh.xls |
| J.4.2 | Line Sharing Splitter, per System 24 Line Capacity | TNLineSh.xls |
| J.4.3 | Line Sharing Splitter - per Line Activation - Central Office | TNLineSh.xls |
| J.4.4 | Line Sharing Splitter - per Subsequent Activity per Line Rearrangement | TNLineSh.xls |
| J.4.199 | Line Sharing Splitter, per System 96 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic – Disconnect | TNLineSh.xls |
| J.4.299 | Line Sharing Splitter, per System 24 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic–Disconnect | TNLineSh.xls |
| J.4.399 | Line Sharing Splitter - per Line Activation - Central Office - Incremental Cost - Manual Svc. Order vs. Electronic–Disconnect | TNLineSh.xls |

## NARRATIVES

### A.2 UNBUNDLED SUB-LOOP (USL)

### A.2.14 2-WIRE INTRABUILDING NETWORK CABLE (INC)
### A.2.15 4-WIRE INTRABUILDING NETWORK CABLE (INC)
### A.2.19 SUB-LOOP - PER BUILDING EQUIPMENT ROOM - CLEC FEEDER FACILITY SET-UP
### A.2.20 SUB-LOOP - PER BUILDING EQUIPMENT ROOM - PER 25 PAIR PANEL SET UP

**Element Description**

The Unbundled Sub-Loops (USLs) are 2-wire or 4-wire components of a loop that can be technically unbundled. Sub-Loops consist of Intrabuilding Network Cable (INC).

Intrabuilding Network Cable (INC) (riser cable) is the distribution facility inside a subscriber's building or between buildings on one customer's same premises (continuous property not separated by a public street or road). USL-INC (riser cable) will include the facility from the cross-connect device in the building equipment room up to and including the end-user's point of demarcation.

Interconnection with USL-INC (riser cable) will be at BellSouth's cross-connect device located in the building equipment room. BellSouth will install a cross-connect panel near BellSouth's cross-connect device on which the USL-INC (riser cable) will be accessed. The CLEC will be responsible for delivering and connecting its feeder facility to the cross connect-panel. BellSouth will connect the CLEC feeder facility to the cross-connect panel. BellSouth will then cross-connect the CLEC facility to the BellSouth USL_INC (riser cable).

The network characteristics (size, length, type of cable) of INC are provided by Network experts and provided on a 2-wire or 4-wire facility.

**Study Technique**

Microsoft Excel spreadsheets are used to develop both recurring and nonrecurring cost analyses.

## Specific Study Assumptions

The nonrecurring costs associated with a building equipment room set-up are separate from the provisioning nonrecurring costs. The set-up costs include the following activities and assumptions:

- Service inquiry required to determine availability of distribution facilities
- Outside Plant Engineering to validate cross-connect locations and information
- Assignment to post records and assign panel/terminal
- Contract and/or Construction Labor to set-up cross-box or building terminal
- 25-pair panel equipment for a building equipment room

The nonrecurring costs for Sub-Loop Intrabuilding Network Cable include the following activities and assumptions:

- A mechanized service order to provisioning facilities
- Coordination of disconnect, RCF, and unbundled loop orders by a coordination center for reused facilities charged as a separate element
- 100% dispatch rate for outside plant
- Special service work groups

# TENNESSEE
# UNBUNDLED NETWORK ELEMENT STUDIES

## A.15 UNBUNDLED NETWORK TERMINATING WIRE (UNTW)

### A.15.1 UNTW - (PER PAIR)

**Element Description**

Unbundled Network Terminating Wire (UNTW) is unshielded twisted copper wiring that is used to extend circuits from an intrabuilding network cable (INC) terminal or from a building entrance terminal to an individual customer's point of demarcation. It is the last segment of the field-side loop distribution facilities which in multi-subscriber configurations, represents the point at which the network branches out to serve individual subscribers.

When properly connected to the CLEC's loop distribution, this element will provide a communication pathway from the CLEC to the end user's inside wire. This facility will allow an end user to send and receive telecommunications traffic when it is properly connected to the CLEC's required network elements such as a loop distribution facility, loop feeder facility, or NID.

This element will be provided in Multi-Dwelling Units (MDUs) and/or Multi-Tenants Units (MTUs) where BellSouth provides wiring all the way to the end-users premises. BellSouth will not provide this element in those locations where the property owner provides their own wiring to the end user's premises or where the property owner will not allow BellSouth to place its facilities to the end user.

In a Wiring Closet scenario, BellSouth will cross connect UNTW pairs from the BellSouth cross-connect panel to an access terminal designed for CLEC access to the UNTW (e.g., RJ21X, 66 block, etc.) inside the Wiring Closet. It is expected that the CLEC will place it own cross-connect panel on which its distribution facilities are terminated. Once BellSouth has connected the UNTW pairs to the access terminal, a CLEC can then access any pair from its cross-connect panel.

In the Garden Terminal (GT) scenario, the CLEC will place its own GT in close proximity to the BellSouth GT. BellSouth will install an access terminal close to the BellSouth GT on which the UNTW pairs will be connected by BellSouth. The CLEC will then provide their tie cable from their GT to the BellSouth provided access terminal and connect their cable. The CLEC may access any UNTW pair serving each MDU/MTU unit unless BellSouth is using the pair to concurrently provide service.

## Study Technique

Microsoft Excel spreadsheets are used to perform this cost analysis.

## Specific Study Assumptions

The recurring cost associated with UNTW per pair provisioning is based on a monthly equivalent of NTW expense associated with each accessed Network Terminating Wire.

The activities of setting-up and placing the access terminal and the material for the access terminal itself are recovered as part of the nonrecurring cost. The nonrecurring cost associated with the access terminal includes the following activities and assumptions:

- Receipt and processing of a manual service inquiry
- Service order issuance for equipment ordering
- Weighted cost of an access terminal in a wiring closet or garden terminal
- Activities of Installation and Maintenance to set-up and install access terminal
- Activities of engineering and assignment forces for terminal inventory
- The average number of pairs per access terminal is 100 pairs
- Tagging of each pair will occur during access terminal set-up
- The cost of access terminal placement is recovered on a per pair basis as pairs are provisioned for the CLEC
- Average equipment life of an access terminal is 7.5 years or 90 months

The nonrecurring costs associated with provisioning activities include the following activity:

- Engineering/assignment assistance for fall-out orders
- Electronic service order

## J.4 LINE SHARING SPLITTER IN THE CENTRAL OFFICE & REMOTE
## J.4.1 LINE SHARING SPLITTER, PER SYSTEM 96 LINE CAPACITY
## J.4.2 LINE SHARING SPLITTER, PER SYSTEM 24 LINE CAPACITY
## J.4.3 LINE SHARING SPLITTER - PER LINE ACTIVATION - CENTRAL OFFICE
## J.4.4 LINE SHARING SPLITTER - PER SUBSEQUENT ACTIVITY PER LINE REARRANGEMENT

**Element Description**

This unbundled network element (UNE) unbundles the high frequency data portion of the local loop in the end users' serving wire center. The CLECs can use this UNE to provide xDSL-based services for their end user customers. The loop's remaining transmission frequencies continue to provide voice grade service from BellSouth. The Line Sharing Splitter in the CO UNE is provided on a two wire unloaded line side copper loop that does not exceed 18 KF. For each loop, BellSouth provides this UNE only to a single requesting carrier and only for use at the same customer address. BellSouth will not provide this UNE if BellSouth does not currently provide analog voice service to the customer. Also, if the customer terminates his voice service with BellSouth, this UNE will be disconnected for that customer. However, if the CLEC wants to continue to provide xDSL service to the end user, the CLEC may purchase the full stand-alone loop unbundled network element.

In order to unbundle the high frequency portion of the loop; a 2-wire line-side copper loop is terminated at a splitter located in the serving wire center or at the remote terminal. The splitter routes the high frequency portion of the circuit to the CLECs xDSL equipment. One splitter or passive signal filter must also be installed at the customer's premises as CPE (Customer Premises Equipment). Since the CPE is the responsibility of the customer or CLEC, the cost of the CPE is not included. BellSouth installs only the splitter in the central office or remote terminal.

The Line Sharing Splitter UNE consists of the following elements: (J.4.1) a per splitter system 96 line capacity and (J.4.2) a per splitter system 24 line capacity, (J4.3) a per line activation in the central office per occurrence and (J4.4) a per subsequent activity per occurrence. The system splitter consists of a 96-line or 24-line capacity for 96 or 24 individual (line) connections in the central office for line sharing. The CLEC purchases collocation cross connects to connect his xDSL equipment to the splitter frame in the central office. For CO line sharing, the CLEC must have a DSLAM unit collocated in the serving central office of the end user. The line activation in the central office provides for a connection between the collocation cross connect, the splitter and the end user loop. A line activation charge is applicable for every end user loop that connects to a splitter. The per splitter system costs apply to CO line sharing only.

## Study Technique

Microsoft Excel spreadsheets are used to develop both recurring and nonrecurring cost analyses.

## Specific Study Assumptions

- This UNE is ordered only on a manual basis.
- Loop conditioning is not included. Additional charges apply if conditioning is required.
- The CLEC will need to order either collocation in the central office or collocation in the remote terminal to go with line sharing.
- The end user calls BellSouth for problems related to voice service and calls the CLEC for problems related to data service.

## Recurring Cost Summary

**Tennessee**
**A.2.14 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop**

06/22/2000

| | Volume Sensitive | | | Volume Insensitive | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | | | $0.0000 | $0.9357 | $0.0000 | $0.9357 |
| **Other Expenses** | | | | | | |
| Subscriber Line Testing | $0.2061 | $0.0000 | $0.2061 | $0.0000 | $0.0000 | $0.0000 |
| NTW Monthly Cost Per Access Line | $0.1301 | $0.0000 | $0.1301 | $0.0000 | $0.0000 | $0.0000 |
| Total Monthly Cost | $0.3362 | $0.0000 | $0.3362 | $0.9357 | $0.0000 | $0.9357 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $0.3372 | | | $0.9387 |
| Common Cost Factor | | | X 1.1500 | | | X 1.1500 |
| Monthly Economic Cost | | | $0.3878 | | | $1.0795 |

**Total Monthly Economic Cost : $1.4673**

000032

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Insensitive

**Tennessee**

**A.2.14 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop**

06/22/2000

| | FRC | Sub FRC | A Material | B Inflation Factor | C=AxB Adjusted Material | D1 Plug-In Inventory Factor | D2 Mat'l Factor | D3 Telco Factor | D4 Plug-In Factor | D5 Hardwire Factor | E=Cx(D1xD2 x...xD5) In-Plant Investment | F Supporting Equipment &/or Power Loading | G=ExF Total Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | In-Plant Factors (Default = 1) | | | | | | | |
| Aerial Ca - Metal - Building Entrance | 12C | 00 | $5.6639 | 1.0822 | $6.1292 | 1.0000 | 4.5878 | 1.0000 | 1.0000 | 1.0000 | $28.1193 | 1.0000 | $28.1193 |
| Intrbld Network - Metal | 52C | 00 | $4.6326 | 1.0926 | $5.0614 | 1.0000 | 3.9305 | 1.0000 | 1.0000 | 1.0000 | $19.8940 | 1.0000 | $19.8940 |
| Intrbld Network - Metal 24-Guage | 52C4 | 00 | $4.0355 | 1.0926 | $4.4091 | 1.0000 | 3.9305 | 1.0000 | 1.0000 | 1.0000 | $17.3300 | 1.0000 | $17.3300 |

000033

Recurring Cost Development
Volume Insensitive

Tennessee
A.2.14 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop

| 06/22/2000 | | A=Prev Page Col G | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+I+K) | M | N=(AxM) | O=(L+N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FRC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expense | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
| Aerial Ca - Metal - Building Entrance | 12C | $28.1193 | 0.0575 | $1.6169 | 0.0620 | $1.7445 | 0.0280 | $0.7880 | 0.0382 | $1.0750 | 0.0091 | $0.2547 | $5.4791 | 0.0000 | $0.0000 | $5.4791 |
| Intrbld Network - Metal | 52C | $37.2240 | 0.0500 | $1.8612 | 0.0648 | $2.4138 | 0.0293 | $1.0903 | 0.0013 | $0.0473 | 0.0091 | $0.3372 | $5.7498 | 0.0000 | $0.0000 | $5.7498 |
| Annual Total | | $65.3432 | | | | | | | | | | | $11.2289 | | $0.0000 | $11.2289 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | $0.9357 | | $0.0000 | $0.9357 |

000034

## Nonrecurring Cost Summary

**Tennessee**
**A.2.14 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $94.2645 | $0.0000 | $94.2645 | $29.2629 | $0.0000 | $29.2629 |
| Total Cost | $94.2645 | $0.0000 | $94.2645 | $29.2629 | $0.0000 | $29.2629 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $94.5587 | | | $29.3542 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$94.5587** | | | **$29.3542** |

000035

Tennessee

A 2.14 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct | Install Cost | | Disconnect Cost | | Disconnect | Discounted Disconnect Cost | | | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Labor Rate | First | Additional | First | Additional | Discount Factor | First | Additional | Direct Cost First | Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 7500 | 0 1667 | 0 0000 | 0 0000 | $31 17 | $23 3775 | $5 1950 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $23 3775 | $5 1950 |
| ENGINEERING | 4M1X | Address & Facilty Inventory (AFIG) | 0 1333 | 0 1333 | 0 0000 | 0 0000 | $34 31 | $4 5747 | $4 5747 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 5747 | $4 5747 |
| ENGINEERING | JG57 | Job Grade 57 | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $40 54 | $4 0538 | $4 0538 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 0538 | $4 0538 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 2578 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $9 8776 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $9 8776 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 7300 | 0 3400 | 0 0000 | 0 0000 | $45 41 | $33 1493 | $15 4394 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $33 1493 | $15 4394 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 3333 | 0 0000 | 0 0000 | 0 0000 | $45 41 | $15 1367 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $15 1367 | $0 0000 |
| | | | | | | | | | | | | | | Total | 94 2645 | 29 2629 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC | Install Cost | | Disconnect Cost | | Disconnect | Discounted Disconnect Cost | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Labor Rate | First | Additional | First | Additional | Discount Factor | First | Additional | TELRIC First | Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 7500 | 0 1667 | 0 0000 | 0 0000 | $31 17 | $23 3775 | $5 1950 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $23 3775 | $5 1950 |
| ENGINEERING | 4M1X | Address & Facilty Inventory (AFIG) | 0 1333 | 0 1333 | 0 0000 | 0 0000 | $34 31 | $4 5747 | $4 5747 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 5747 | $4 5747 |
| ENGINEERING | JG57 | Job Grade 57 | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $40 54 | $4 0538 | $4 0538 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 0538 | $4 0538 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 2578 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $9 8776 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $9 8776 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 7300 | 0 3400 | 0 0000 | 0 0000 | $45 41 | $33 1493 | $15 4394 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $33 1493 | $15 4394 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 3333 | 0 0000 | 0 0000 | 0 0000 | $45 41 | $15 1367 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $15 1367 | $0 0000 |
| | | | | | | | | | | | | | | Total | 94 2645 | 29 2629 |

000036

## Recurring Cost Summary

**Tennessee**
**A.2.15 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop**

06/22/2000

| | Volume Sensitive | | | Volume Insensitive | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | | | $0.0000 | $1.8715 | $0.0000 | $1.8715 |
| **Other Expenses** | | | | | | |
| Subscriber Line Testing | $0.2061 | $0.0000 | $0.2061 | $0.0000 | $0.0000 | $0.0000 |
| NTW Monthly Cost Per Access Line | $0.1301 | $0.0000 | $0.1301 | $0.0000 | $0.0000 | $0.0000 |
| Total Monthly Cost | $0.3362 | $0.0000 | $0.3362 | $1.8715 | $0.0000 | $1.8715 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $0.3372 | | | $1.8773 |
| Common Cost Factor | | | X 1.1500 | | | X 1.1500 |
| Monthly Economic Cost | | | $0.3878 | | | $2.1589 |

**Total Monthly Economic Cost : $2.5468**

000037

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Insensitive

Tennessee

A.2.15 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop

06/22/2000

| | FRC | Sub FRC | A Material | B Inflation Factor | C=AxB Adjusted Material | In-Plant Factors (Default = 1) D1 Plug-in Inventory Factor | D2 Mat'l Factor | D3 Telco Factor | D4 Plug-in Factor | D5 Hardwire Factor | E=Cx(D1xD2 x...xD5) In-Plant Investment | F Supporting Equipment &/or Power Loading | G=ExF Total Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aerial Ca - Metal - Building Entrance | 12C | 00 | $11.3277 | 1.0822 | $12.2584 | 1.0000 | 4.5878 | 1.0000 | 1.0000 | 1.0000 | $56.2386 | 1.0000 | $56.2386 |
| Intrbld Network - Metal | 52C | 00 | $9.2652 | 1.0926 | $10.1227 | 1.0000 | 3.9305 | 1.0000 | 1.0000 | 1.0000 | $39.7879 | 1.0000 | $39.7879 |
| Intrbld Network - Metal 24-Guage | 52C4 | 00 | $8.0710 | 1.0926 | $8.8181 | 1.0000 | 3.9305 | 1.0000 | 1.0000 | 1.0000 | $34.6600 | 1.0000 | $34.6600 |

000038

## Recurring Cost Development
## Volume Insensitive

**Tennessee**

**A.2.15 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop**

06/22/2000

| | FRC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expense | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A=Prev Page Col G | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+ I+K) | M | N=(AxM) | O=(L+N) |
| Aerial Ca - Metal - Building Entrance | 12C | $56.2386 | 0.0575 | $3.2337 | 0.0620 | $3.4890 | 0.0280 | $1.5760 | 0.0382 | $2.1501 | 0.0091 | $0.5094 | $10.9582 | 0.0000 | $0.0000 | $10.9582 |
| Intrbld Network - Metal | 52C | $74.4479 | 0.0500 | $3.7224 | 0.0648 | $4.8275 | 0.0293 | $2.1807 | 0.0013 | $0.0946 | 0.0091 | $0.6743 | $11.4995 | 0.0000 | $0.0000 | $11.4995 |
| Annual Total | | $130.6865 | | | | | | | | | | | $22.4577 | | $0.0000 | $22.4577 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | $1.8715 | | $0.0000 | $1.8715 |

000039

# Nonrecurring Cost Summary

**Tennessee**

**A.2.15 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $115.7780 | $0.0000 | $115.7780 | $36.9826 | $0.0000 | $36.9826 |
| Total Cost | $115.7780 | $0.0000 | $115.7780 | $36.9826 | $0.0000 | $36.9826 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $116.1393 | | | $37.0980 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$116.1393** | | | **$37.0980** |

000040

## Nonrecurring Cost Development

**Tennessee**

**A 2.15 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | | Install Cost | | Disconnect Cost | | | Discounted Disconnect Cost | | | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Direct Labor Rate | First | Additional | First | Additional | Disconnect Discount Factor | First | Additional | Direct Cost First | Direct Cost Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 7500 | 0 1667 | 0 0000 | 0 0000 | $31 17 | $23 3775 | $5 1950 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $23 3775 | $5 1950 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0 1333 | 0 1333 | 0 0000 | 0 0000 | $34 31 | $4 5747 | $4 5747 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 5747 | $4 5747 |
| ENGINEERING | JG57 | Job Grade 57 | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $40 54 | $4 0538 | $4 0538 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 0538 | $4 0538 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 3868 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $14 8164 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $14 8164 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 1 0950 | 0 5100 | 0 0000 | 0 0000 | $45 41 | $49 7240 | $23 1591 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $49 7240 | $23 1591 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 3333 | 0 0000 | 0 0000 | 0 0000 | $45 41 | $15 1367 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $15 1367 | $0 0000 |
| | | | | | | | | | | | | | | Total | 115.7780 | 36.9826 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 7500 | 0 1667 | 0 0000 | 0 0000 | $31 17 | $23 3775 | $5 1950 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $23 3775 | $5 1950 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0 1333 | 0 1333 | 0 0000 | 0 0000 | $34 31 | $4 5747 | $4 5747 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 5747 | $4 5747 |
| ENGINEERING | JG57 | Job Grade 57 | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $40 54 | $4 0538 | $4 0538 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 0538 | $4 0538 |
| CONNECT & TURN UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 3868 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $14 8164 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $14 8164 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 1 0950 | 0 5100 | 0 0000 | 0 0000 | $45 41 | $49 7240 | $23 1591 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $49 7240 | $23 1591 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 3333 | 0 0000 | 0 0000 | 0 0000 | $45 41 | $15 1367 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $15 1367 | $0 0000 |
| | | | | | | | | | | | | | | Total | 115.7780 | 36.9826 |

000041

# Nonrecurring Cost Summary

**Tennessee**
**A.2.19 - Sub-Loop - Per Building Equipment Room - CLEC Feeder Facility Set-Up**

06/22/2000

**Nonrecurring Cost**

| | Direct Cost | Shared Cost | | TELRIC |
|---|---|---|---|---|
| Nonrecurring Cost Development Sheet Col H | $295.6771 | $0.0000 | | $295.6771 |
| Total Cost | $295.6771 | $0.0000 | | $295.6771 |
| Gross Receipts Tax Factor | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $296.5999 |
| Common Cost Factor | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$296.5999** |

240042

## Nonrecurring Cost Development

**Tennessee**

**A.2.19 - Sub-Loop - Per Building Equipment Room - CLEC Feeder Facility Set-Up**

06/22/2000

| Function | JFC/ Payband | JFC/Payband Description | A Installation Worktime | B Disconnect Worktime | C Direct Labor Rate | D=AxC Install Cost | E=BxC Disconnect Cost | F Disconnect Discount Factor | G=ExF Discounted Disconnect Cost | H=D+G Direct Cost |
|---|---|---|---|---|---|---|---|---|---|---|
| SERVICE INQUIRY | SDWC | Systems Designer w/Sales Com | 1.0300 | 0.0000 | $51.17 | $52.7051 | $0.0000 | 1.0000 | $0.0000 | $52.7051 |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 1.0000 | 0.0000 | $31.17 | $31.1700 | $0.0000 | 1.0000 | $0.0000 | $31.1700 |
| ENGINEERING | JG57 | Job Grade 57 | 2.0000 | 0.0000 | $40.54 | $81.0760 | $0.0000 | 1.0000 | $0.0000 | $81.0760 |
| ENGINEERING | WS10 | Wage Scale 10 | 3.0000 | 0.0000 | $24.14 | $72.4266 | $0.0000 | 1.0000 | $0.0000 | $72.4266 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0.3333 | 0.0000 | $34.31 | $11.4367 | $0.0000 | 1.0000 | $0.0000 | $11.4367 |
| CONNECT & TURN-UP TEST | 420X | Outside Plant Constr (OSPC) | 0.1250 | 0.0000 | $42.55 | $5.3188 | $0.0000 | 1.0000 | $0.0000 | $5.3188 |
| TRAVEL | JG57 | Job Grade 57 | 0.5000 | 0.0000 | $40.54 | $20.2690 | $0.0000 | 1.0000 | $0.0000 | $20.2690 |
| TRAVEL | 420X | Outside Plant Constr (OSPC) | 0.5000 | 0.0000 | $42.55 | $21.2750 | $0.0000 | 1.0000 | $0.0000 | $21.2750 |
| | | | | | | | | | Total | 295.6771167 |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktime | Disconnect Worktime | TELRIC Labor Rate | Install Cost | Disconnect Cost | Disconnect Discount Factor | Discounted Disconnect Cost | TELRIC |
|---|---|---|---|---|---|---|---|---|---|---|
| SERVICE INQUIRY | SDWC | Systems Designer w/Sales Com | 1.0300 | 0.0000 | $51.17 | $52.7051 | $0.0000 | 1.0000 | $0.0000 | $52.7051 |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 1.0000 | 0.0000 | $31.17 | $31.1700 | $0.0000 | 1.0000 | $0.0000 | $31.1700 |
| ENGINEERING | JG57 | Job Grade 57 | 2.0000 | 0.0000 | $40.54 | $81.0760 | $0.0000 | 1.0000 | $0.0000 | $81.0760 |
| ENGINEERING | WS10 | Wage Scale 10 | 3.0000 | 0.0000 | $24.14 | $72.4266 | $0.0000 | 1.0000 | $0.0000 | $72.4266 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0.3333 | 0.0000 | $34.31 | $11.4367 | $0.0000 | 1.0000 | $0.0000 | $11.4367 |
| CONNECT & TURN-UP TEST | 420X | Outside Plant Constr (OSPC) | 0.1250 | 0.0000 | $42.55 | $5.3188 | $0.0000 | 1.0000 | $0.0000 | $5.3188 |
| TRAVEL | JG57 | Job Grade 57 | 0.5000 | 0.0000 | $40.54 | $20.2690 | $0.0000 | 1.0000 | $0.0000 | $20.2690 |
| TRAVEL | 420X | Outside Plant Constr (OSPC) | 0.5000 | 0.0000 | $42.55 | $21.2750 | $0.0000 | 1.0000 | $0.0000 | $21.2750 |
| | | | | | | | | | Total | 295.6771 |

000043

# Nonrecurring Cost Summary

**Tennessee**
**A.2.20 - Sub-Loop - Per Building Equipment Room - Per 25 Pair Panel Set-Up**

06/22/2000

| | Nonrecurring Cost | | | |
|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $42.5500 | $0.0000 | | $42.5500 |
| **Other Expenses** | | | | |
| PANEL MATERIAL COSTS | $60.6677 | $0.0000 | | $60.6677 |
| Total Cost | $103.2177 | $0.0000 | | $103.2177 |
| Gross Receipts Tax Factor | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $103.5399 |
| Common Cost Factor | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$103.5399** |

000044

## Nonrecurring Cost Development

**Tennessee**
**A.2.20 - Sub-Loop - Per Building Equipment Room - Per 25 Pair Panel Set-Up**

06/22/2000

| Function | JFC/ Payband | JFC/Payband Description | A Installation Worktime | B Disconnect Worktime | C Direct Labor Rate | D=AxC Install Cost | E=BxC Disconnect Cost | F Disconnect Discount Factor | G=ExF Discounted Disconnect Cost | H=D+G Direct Cost |
|---|---|---|---|---|---|---|---|---|---|---|
| CONNECT & TURN-UP TEST | 420X | Outside Plant Constr (OSPC) | 1.0000 | 0.0000 | $42.55 | $42.5500 | $0.0000 | 1.0000 | $0.0000 | $42.5500 |
| | | | | | | | | | **Total** | **42.55** |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktime | Disconnect Worktime | TELRIC Labor Rate | Install Cost | Disconnect Cost | Disconnect Discount Factor | Discounted Disconnect Cost | TELRIC |
|---|---|---|---|---|---|---|---|---|---|---|
| CONNECT & TURN-UP TEST | 420X | Outside Plant Constr (OSPC) | 1.0000 | 0.0000 | $42.55 | $42.5500 | $0.0000 | 1.0000 | $0.0000 | $42.5500 |
| | | | | | | | | | **Total** | **42.5500** |

000045

## Nonrecurring Cost Summary

**Tennessee**
**A.2.1498 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Testing**

06/22/2000

**Nonrecurring Cost**

| | First | | | | Additional | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $36.0721 | $0.0000 | | $36.0721 | $10.2929 | $0.0000 | | $10.2929 |
| Total Cost | $36.0721 | $0.0000 | | $36.0721 | $10.2929 | $0.0000 | | $10.2929 |
| Gross Receipts Tax Factor | | | X | 1.0031 | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $36.1847 | | | | $10.3251 |
| Common Cost Factor | | | X | 1.0000 | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$36.1847** | | | | **$10.3251** |

000046

## Nonrecurring Cost Development

Tennessee

A.2.1498 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Testing

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 2578 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $9 8776 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $9 8776 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 4867 | 0 2267 | 0 0000 | 0 0000 | $45 41 | $22 0995 | $10 2929 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $22 0995 | $10 2929 |
| | | | | | | | | | | | | | | Total | 36 0721 | 10 2929 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 2578 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $9 8776 | $0 0000 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $9 8776 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 4867 | 0 2267 | 0 0000 | 0 0000 | $45 41 | $22 0995 | $10 2929 | $0 0000 | $0 0000 | 1 1681 | $0 0000 | $0 0000 | $22 0995 | $10 2929 |
| | | | | | | | | | | | | | | Total | 36 0721 | 10 2929 |

000047

## Nonrecurring Cost Summary

**Tennessee**

**A.2.1499 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Disconnect**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $111.6940 | $0.0000 | $111.6940 | $18.4844 | $0.0000 | $18.4844 |
| Total Cost | $111.6940 | $0.0000 | $111.6940 | $18.4844 | $0.0000 | $18.4844 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $112.0426 | | | $18.5421 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$112.0426** | | | **$18.5421** |

000048

## Nonrecurring Cost Development

**Tennessee**

**A.2.1499 - Sub-Loop Intrabuilding Network Cable (INC) Per 2-Wire Analog Voice Grade Loop - Disconnect**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 1667 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $5 1950 | 1 1681 | $18 2049 | $6 0683 | $18 2049 | $6 0683 |
| ENGINEERING | 4M1X | Address & Facilty Inventory (AFIG) | 0 0000 | 0 0000 | 0 1333 | 0 1333 | $34 31 | $0 0000 | $0 0000 | $4 5747 | $4 5747 | 1 1681 | $5 3437 | $5 3437 | $5 3437 | $5 3437 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 0000 | 0 0000 | 0 2500 | 0 0000 | $32 76 | $0 0000 | $0 0000 | $8 1900 | $0 0000 | 1 1681 | $9 5667 | $0 0000 | $9 5667 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 0000 | 0 0000 | 0 4323 | 0 0000 | $38 31 | $0 0000 | $0 0000 | $16 5627 | $0 0000 | 1 1681 | $19 3469 | $0 0000 | $19 3469 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 7833 | 0 1333 | $45 41 | $0 0000 | $0 0000 | $35 5712 | $6 0547 | 1 1681 | $41 5507 | $7 0725 | $41 5507 | $7 0725 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 3333 | 0 0000 | $45 41 | $0 0000 | $0 0000 | $15 1367 | $0 0000 | 1 1681 | $17 6812 | $0 0000 | $17 6812 | $0 0000 |
| | | | | | | | | | | | | | | Total | 111 8940 | 18 4844 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 1667 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $5 1950 | 1 1681 | $18 2049 | $6 0683 | $18 2049 | $6 0683 |
| ENGINEERING | 4M1X | Address & Facilty Inventory (AFIG) | 0 0000 | 0 0000 | 0 1333 | 0 1333 | $34 31 | $0 0000 | $0 0000 | $4 5747 | $4 5747 | 1 1681 | $5 3437 | $5 3437 | $5 3437 | $5 3437 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 0000 | 0 0000 | 0 2500 | 0 0000 | $32 76 | $0 0000 | $0 0000 | $8 1900 | $0 0000 | 1 1681 | $9 5667 | $0 0000 | $9 5667 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 0000 | 0 0000 | 0 4323 | 0 0000 | $38 31 | $0 0000 | $0 0000 | $16 5627 | $0 0000 | 1 1681 | $19 3469 | $0 0000 | $19 3469 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 7833 | 0 1333 | $45 41 | $0 0000 | $0 0000 | $35 5712 | $6 0547 | 1 1681 | $41 5507 | $7 0725 | $41 5507 | $7 0725 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 3333 | 0 0000 | $45 41 | $0 0000 | $0 0000 | $15 1367 | $0 0000 | 1 1681 | $17 6812 | $0 0000 | $17 6812 | $0 0000 |
| | | | | | | | | | | | | | | Total | 111 8940 | 18 4844 |

000049

# Nonrecurring Cost Summary

**Tennessee**

**A.2.1598 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Testing**

06/22/2000

**Nonrecurring Cost**

| | First | | | | Additional | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $52.0607 | $0.0000 | | $52.0607 | $15.4394 | $0.0000 | | $15.4394 |
| Total Cost | $52.0607 | $0.0000 | | $52.0607 | $15.4394 | $0.0000 | | $15.4394 |
| Gross Receipts Tax Factor | | | X | 1.0031 | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $52.2232 | | | | $15.4876 |
| Common Cost Factor | | | X | 1.0000 | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$52.2232** | | | | **$15.4876** |

000050

## Nonrecurring Cost Development

**Tennessee**

**A.2.1598 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Testing**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Labor Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 3868 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $14 8164 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $14 8164 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 7300 | 0 3400 | 0 0000 | 0 0000 | $45 41 | $33 1493 | $15 4394 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $33 1493 | $15 4394 |
| | | | | | | | | | | | | | | Total | 52.0607 | 15 4394 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 1250 | 0 0000 | 0 0000 | 0 0000 | $32 76 | $4 0950 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $4 0950 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 3868 | 0 0000 | 0 0000 | 0 0000 | $38 31 | $14 8164 | $0 0000 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $14 8164 | $0 0000 |
| CONNECT & TURN UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 7300 | 0 3400 | 0 0000 | 0 0000 | $45 41 | $33 1493 | $15 4394 | $0 0000 | $0 0000 | 1 1920 | $0 0000 | $0 0000 | $33 1493 | $15 4394 |
| | | | | | | | | | | | | | | Total | 52 0607 | 15 4394 |

000051

## Nonrecurring Cost Summary

**Tennessee**

**A.2.1599 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Disconnect**

06/22/2000

**Nonrecurring Cost**

| | First | | | | Additional | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $117.7864 | $0.0000 | | $117.7864 | $18.8629 | $0.0000 | | $18.8629 |
| Total Cost | $117.7864 | $0.0000 | | $117.7864 | $18.8629 | $0.0000 | | $18.8629 |
| Gross Receipts Tax Factor | | | X | 1.0031 | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $118.1540 | | | | $18.9217 |
| Common Cost Factor | | | X | 1.0000 | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$118.1540** | | | | **$18.9217** |

250052

## Nonrecurring Cost Development

**Tennessee**

**A.2.1599 - Sub-Loop Intrabuilding Network Cable (INC) Per 4-Wire Analog Voice Grade Loop - Disconnect**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 1667 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $5 1950 | 1 1920 | $18 5776 | $6 1925 | $18 5776 | $6 1925 |
| ENGINEERING | 4M1X | Address & Facilty Inventory (AFIG) | 0 0000 | 0 0000 | 0 1333 | 0 1333 | $34 31 | $0 0000 | $0 0000 | $4 5747 | $4 5747 | 1 1920 | $5 4531 | $5 4531 | $5 4531 | $5 4531 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 0000 | 0 0000 | 0 2500 | 0 0000 | $32 76 | $0 0000 | $0 0000 | $8 1900 | $0 0000 | 1 1920 | $9 7626 | $0 0000 | $9 7626 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 0000 | 0 0000 | 0 5157 | 0 0000 | $38 31 | $0 0000 | $0 0000 | $19 7552 | $0 0000 | 1 1920 | $23 5485 | $0 0000 | $23 5485 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 7833 | 0 1333 | $45 41 | $0 0000 | $0 0000 | $35 5712 | $6 0547 | 1 1920 | $42 4014 | $7 2173 | $42 4014 | $7 2173 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 3333 | 0 0000 | $45 41 | $0 0000 | $0 0000 | $15 1367 | $0 0000 | 1 1920 | $18 0432 | $0 0000 | $18 0432 | $0 0000 |
| | | | | | | | | | | | | | | Total | 117 7864 | 18 8629 |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktimes First | Installation Worktimes Additional | Disconnect Worktimes First | Disconnect Worktimes Additional | TELRIC Labor Rate | Install Cost First | Install Cost Additional | Disconnect Cost First | Disconnect Cost Additional | Disconnect Discount Factor | Discounted Disconnect Cost First | Discounted Disconnect Cost Additional | TELRIC First | TELRIC Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 1667 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $5 1950 | 1 1920 | $18 5776 | $6 1925 | $18 5776 | $6 1925 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0 0000 | 0 0000 | 0 1333 | 0 1333 | $34 31 | $0 0000 | $0 0000 | $4 5747 | $4 5747 | 1 1920 | $5 4531 | $5 4531 | $5 4531 | $5 4531 |
| CONNECT & TURN-UP TEST | 4WXX | Work Management Center (WMC) | 0 0000 | 0 0000 | 0 2500 | 0 0000 | $32 76 | $0 0000 | $0 0000 | $8 1900 | $0 0000 | 1 1920 | $9 7626 | $0 0000 | $9 7626 | $0 0000 |
| CONNECT & TURN-UP TEST | 4AXX | Acc Cust Advocate Cntr (ACAC) | 0 0000 | 0 0000 | 0 5157 | 0 0000 | $38 31 | $0 0000 | $0 0000 | $19 7552 | $0 0000 | 1 1920 | $23 5485 | $0 0000 | $23 5485 | $0 0000 |
| CONNECT & TURN-UP TEST | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 7833 | 0 1333 | $45 41 | $0 0000 | $0 0000 | $35 5712 | $6 0547 | 1 1920 | $42 4014 | $7 2173 | $42 4014 | $7 2173 |
| TRAVEL | 411X | Install & Mtce - Spec Svcs (SSIM) | 0 0000 | 0 0000 | 0 3333 | 0 0000 | $45 41 | $0 0000 | $0 0000 | $15 1367 | $0 0000 | 1 1920 | $18 0432 | $0 0000 | $18 0432 | $0 0000 |
| | | | | | | | | | | | | | | Total | 117 7864 | 18 8629 |

000053

# Recurring Cost Summary

**Tennessee**
**A.15.1 - Unbundled Network Terminating Wire (NTW) Per Pair**

06/22/2000

| | Volume Sensitive | | | Volume Insensitive | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| **Other Expenses** | | | | | | |
| Subscriber Line Testing | $0.2915 | $0.0000 | $0.2915 | $0.0000 | $0.0000 | $0.0000 |
| Total Monthly Cost Per Access Line - NTW | $0.1301 | $0.0000 | $0.1301 | $0.0000 | $0.0000 | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| | | | $0.0000 | | | $0.0000 |
| Total Monthly Cost | $0.4216 | $0.0000 | $0.4216 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $0.4229 | | | $0.0000 |
| Common Cost Factor | | | X 1.1500 | | | X 1.1500 |
| Monthly Economic Cost | | | $0.4863 | | | $0.0000 |

**Total Monthly Economic Cost : $0.4863**

000054

# Nonrecurring Cost Summary

**Tennessee**
**A.15.1 - Unbundled Network Terminating Wire (NTW) Per Pair**

06/22/2000

| | Nonrecurring Cost | | |
|---|---|---|---|
| | **Direct Cost** | **Shared Cost** | **TELRIC** |
| Nonrecurring Cost Development Sheet Col H | $37.7240 | $0.0000 | $37.7240 |
| **Other Expenses** | | | |
| Garden Terminal/Wiring Closet | $23.9167 | $0.0000 | $23.9167 |
| Total Cost | $61.6407 | $0.0000 | $61.6407 |
| Gross Receipts Tax Factor | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | $61.8331 |
| Common Cost Factor | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | **$61.8331** |

SS0000

## Nonrecurring Cost Development

**Tennessee**

**A.15.1 - Unbundled Network Terminating Wire (NTW) Per Pair**

06/22/2000

| Function | JFC/ Payband | JFC/Payband Description | A Installation Worktime | B Disconnect Worktime | C Direct Labor Rate | D=AxC Install Cost | E=BxC Disconnect Cost | F Disconnect Discount Factor | G=ExF Discounted Disconnect Cost | H=D+G Direct Cost |
|---|---|---|---|---|---|---|---|---|---|---|
| Access Terminal - SERVICE INQUIRY | SDWC | Systems Designer w/Sales Com | 0.0954 | 0.0000 | $51.17 | $4.8801 | $0.0000 | 1.0000 | $0.0000 | $4.8801 |
| Access Terminal - SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0.0694 | 0.0000 | $31.17 | $2.1646 | $0.0000 | 1.0000 | $0.0000 | $2.1646 |
| Access Terminal - SITE SURVEY/SET-UP | JG59 | Job Grade 59 | 0.3056 | 0.0000 | $54.58 | $16.6768 | $0.0000 | 1.0000 | $0.0000 | $16.6768 |
| Access Terminal - SITE SURVEY/SET-UP | 32XX | Outside Plant Eng (FG30) | 0.0231 | 0.0000 | $43.66 | $1.0106 | $0.0000 | 1.0000 | $0.0000 | $1.0106 |
| Access Terminal - SITE SURVEY/SET-UP | 4M1X | Address & Facility Inventory (AFIG) | 0.0309 | 0.0000 | $34.31 | $1.0590 | $0.0000 | 1.0000 | $0.0000 | $1.0590 |
| Access Terminal - CONNECT & TURN-UP TEST | 410X | Install & Mtce - Pots | 0.2630 | 0.0000 | $40.26 | $10.5869 | $0.0000 | 1.0000 | $0.0000 | $10.5869 |
| SERVICE ORDER | 230X | Customer Point Of Contact - ICSC/LCSC | 0.0175 | 0.0000 | $31.17 | $0.5455 | $0.0000 | 1.0000 | $0.0000 | $0.5455 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0.0233 | 0.0000 | $34.31 | $0.8006 | $0.0000 | 1.0000 | $0.0000 | $0.8006 |
| | | | | | | | | | **Total** | **37.7239784** |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktime | Disconnect Worktime | TELRIC Labor Rate | Install Cost | Disconnect Cost | Disconnect Discount Factor | Discounted Disconnect Cost | TELRIC |
|---|---|---|---|---|---|---|---|---|---|---|
| Access Terminal - SERVICE INQUIRY | SDWC | Systems Designer w/Sales Com | 0.0954 | 0.0000 | $51.17 | $4.8801 | $0.0000 | 1.0000 | $0.0000 | $4.8801 |
| Access Terminal - SERVICE INQUIRY | 230X | Customer Point Of Contact - ICSC/LCSC | 0.0694 | 0.0000 | $31.17 | $2.1646 | $0.0000 | 1.0000 | $0.0000 | $2.1646 |
| Access Terminal - SITE SURVEY/SET-UP | JG59 | Job Grade 59 | 0.3056 | 0.0000 | $54.58 | $16.6768 | $0.0000 | 1.0000 | $0.0000 | $16.6768 |
| Access Terminal - SITE SURVEY/SET-UP | 32XX | Outside Plant Eng (FG30) | 0.0231 | 0.0000 | $43.66 | $1.0106 | $0.0000 | 1.0000 | $0.0000 | $1.0106 |
| Access Terminal - SITE SURVEY/SET-UP | 4M1X | Address & Facility Inventory (AFIG) | 0.0309 | 0.0000 | $34.31 | $1.0590 | $0.0000 | 1.0000 | $0.0000 | $1.0590 |
| Access Terminal - CONNECT & TURN-UP TEST | 410X | Install & Mtce - Pots | 0.2630 | 0.0000 | $40.26 | $10.5869 | $0.0000 | 1.0000 | $0.0000 | $10.5869 |
| SERVICE ORDER | 230X | Customer Point Of Contact - ICSC/LCSC | 0.0175 | 0.0000 | $31.17 | $0.5455 | $0.0000 | 1.0000 | $0.0000 | $0.5455 |
| ENGINEERING | 4M1X | Address & Facility Inventory (AFIG) | 0.0233 | 0.0000 | $34.31 | $0.8006 | $0.0000 | 1.0000 | $0.0000 | $0.8006 |
| | | | | | | | | | **Total** | **37.7240** |

950056

# Nonrecurring Cost Summary

**Tennessee**

**A.15.199 - Unbundled Network Terminating Wire (NTW) Per Pair- Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

**Nonrecurring Cost**

| | Direct Cost | Shared Cost | | TELRIC |
|---|---|---|---|---|
| Nonrecurring Cost Development Sheet Col H | $0.5797 | $0.0000 | | $0.5797 |
| Total Cost | $0.5797 | $0.0000 | | $0.5797 |
| Gross Receipts Tax Factor | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $0.5815 |
| Common Cost Factor | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$0.5815** |

000057

## Nonrecurring Cost Development

**Tennessee**

**A.15.199 - Unbundled Network Terminating Wire (NTW) Per Pair- Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

| | | | A | B | C | D=AxC | E=BxC | F | G=ExF | H=D+G |
|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | Installation Worktime | Disconnect Worktime | Direct Labor Rate | Install Cost | Disconnect Cost | Disconnect Discount Factor | Discounted Disconnect Cost | Direct Cost |
| SERVICE ORDER | 230X | Customer Point Of Contact - ICSC/LCSC | 0.0000 | 0.0175 | $31.17 | $0.0000 | $0.5455 | 1.0627 | $0.5797 | $0.5797 |
| | | | | | | | | | **Total** | **0.579669133** |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktime | Disconnect Worktime | TELRIC Labor Rate | Install Cost | Disconnect Cost | Disconnect Discount Factor | Discounted Disconnect Cost | TELRIC |
|---|---|---|---|---|---|---|---|---|---|---|
| SERVICE ORDER | 230X | Customer Point Of Contact - ICSC/LCSC | 0.0000 | 0.0175 | $31.17 | $0.0000 | $0.5455 | 1.0627 | $0.5797 | $0.5797 |
| | | | | | | | | | **Total** | **0.5797** |

# Recurring Cost Summary

**Tennessee**
**J.4.1 - Line Sharing Splitter, per System 96 Line Capacity**

06/22/2000

| | Volume Sensitive | | | Volume Insensitive | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | $159.3343 | $0.0000 | $159.3343 | | | $0.0000 |
| Total Monthly Cost | $159.3343 | $0.0000 | $159.3343 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $159.8316 | | | $0.0000 |
| Common Cost Factor | | | X 1.1500 | | | X 1.1500 |
| Monthly Economic Cost | | | $183.8063 | | | $0.0000 |

**Total Monthly Economic Cost : $183.8063**

000059

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Sensitive

**Tennessee**

**J.4.1 - Line Sharing Splitter, per System 96 Line Capacity**

06/22/2000

| | FRC | Sub FRC | A Material | B Inflation Factor | C=AxB Adjusted Material | D1 Plug-in Inventory Factor | D2 Mat'l Factor | D3 Telco Factor | D4 Plug-in Factor | D5 Hardwire Factor | E=Cx(D1xD2x...xD5) In-Plant Investment | F Supporting Equipment &/or Power Loading | G=ExF Total Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | In-Plant Factors (Default = 1) | | | | | | | |
| Digital Elec Switch - MDF | 377C | 05 | $447.9755 | 1.0201 | $456.9949 | 1.0000 | 1.3120 | 1.0000 | 1.0000 | 1.0000 | $599.5563 | 1.1146 | $668.2450 |
| Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP | 257C | 03 | $187.5000 | 0.9800 | $183.7500 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 2.2180 | $407.5564 | 1.0274 | $418.7190 |
| Digtl Circ - Pair Gain - C.O. - Combined - MCEP | 257C | 15 | $4,859.0000 | 0.9800 | $4,761.8200 | 1.0000 | 1.4551 | 1.0000 | 1.0000 | 1.0000 | $6,929.0957 | 1.0274 | $7,118.8767 |

090060

## Land, Building, Pole, and Conduit Investment Development
## Volume Sensitive

**Tennessee**
**J.4.1 - Line Sharing Splitter, per System 96 Line Capacity**

| | FRC | Investment | |
|---|---|---|---|
| Land - COE | 20C | $36.8606 | = Sum of Col C |
| Buildings - COE | 10C | $954.0767 | = Sum of Col E |

06/22/2000

| | FRC | Sub FRC | A=Prev Page Col G Investment | B Land Factor | C=(AxB) Land Investment | D Building Factor | E=(AxD) Building Investment | F Pole Factor | G=(AxF) Pole Investment | H Conduit Factor | I=(AxH) Conduit Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Digital Elec Switch - MDF | 377C | 05 | $668.2450 | 0.0045 | $3.0018 | 0.1163 | $77.6955 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP | 257C | 03 | $418.7190 | 0.0045 | $1.8809 | 0.1163 | $48.6836 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Digtl Circ - Pair Gain - C.O. - Combined - MCEP | 257C | 15 | $7,118.8767 | 0.0045 | $31.9780 | 0.1163 | $827.6976 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| | | | | | $36.8606 | | $954.0767 | | $0.0000 | | $0.0000 |

000061

## Recurring Cost Development
## Volume Sensitive

**Tennessee**
**J.4.1 - Line Sharing Splitter, per System 96 Line Capacity**

06/22/2000

| | | A=Prev Page Col A | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+I+K) | M | N=(AxM) | O=(L+N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FRC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expense | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
| Land - COE | 20C | $36.8606 | 0.0000 | $0.0000 | 0.0993 | $3.6603 | 0.0449 | $1.6534 | 0.0000 | $0.0000 | 0.0091 | $0.3339 | $5.6475 | 0.0000 | $0.0000 | $5.6475 |
| Buildings - COE | 10C | $954.0767 | 0.0230 | $21.9660 | 0.0780 | $74.4018 | 0.0352 | $33.6085 | 0.0742 | $70.8001 | 0.0091 | $8.6420 | $209.4184 | 0.0000 | $0.0000 | $209.4184 |
| Digital Elec Switch | 377C | $668.2450 | 0.0565 | $37.7362 | 0.0667 | $44.5459 | 0.0301 | $20.1221 | 0.0283 | $18.9214 | 0.0091 | $6.0530 | $127.3785 | 0.0000 | $0.0000 | $127.3785 |
| Digtl Circ - Pair Gain | 257C | $7,537.5957 | 0.0909 | $685.2360 | 0.0626 | $471.5387 | 0.0283 | $213.0013 | 0.0174 | $131.5160 | 0.0091 | $68.2755 | $1,569.5675 | 0.0000 | $0.0000 | $1,569.5675 |
| | | | | | | | | | | | | | $1,912.0119 | | $0.0000 | $1,912.0119 |
| Annual Total | | $9,196.7780 | | | | | | | | | | | $159.3343 | | $0.0000 | $159.3343 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | | | | |

290000

## Nonrecurring Cost Summary

**Tennessee**
**J.4.1 - Line Sharing Splitter, per System 96 Line Capacity**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $342.2747 | $0.0000 | $342.2747 | | | $0.0000 |
| Total Cost | $342.2747 | $0.0000 | $342.2747 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $343.3429 | | | $0.0000 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$343.3429** | | | **$0.0000** |

000063

## Nonrecurring Cost Development

Tennessee

J 4 1 - Line Sharing Splitter, per System 96 Line Capacity

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 5000 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $15 5850 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $15 5850 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 4 0000 | 0 0000 | 0 0000 | 0 0000 | $29 10 | $116 4000 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $116 4000 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 3 0000 | 0 0000 | 0 0000 | 0 0000 | $50 98 | $152 9400 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $152 9400 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 7400 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $23 0658 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $23 0658 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 6700 | 0 0000 | 0 0000 | 0 0000 | $51 17 | $34 2839 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $34 2839 | $0 0000 |
| | | | | | | | | | | | | | | Total | 342 2747 | 0 0000 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 5000 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $15 5850 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $15 5850 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 4 0000 | 0 0000 | 0 0000 | 0 0000 | $29 10 | $116 4000 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $116 4000 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 3 0000 | 0 0000 | 0 0000 | 0 0000 | $50 98 | $152 9400 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $152 9400 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 7400 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $23 0658 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $23 0658 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 6700 | 0 0000 | 0 0000 | 0 0000 | $51 17 | $34 2839 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $34 2839 | $0 0000 |
| | | | | | | | | | | | | | | Total | 342 2747 | 0 0000 |

000064

# Recurring Cost Summary

**Tennessee**
**J.4.2 - Line Sharing Splitter, per System 24 Line Capacity**

06/22/2000

| | Volume Sensitive | | | Volume Insensitive | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | $39.8336 | $0.0000 | $39.8336 | | | $0.0000 |
| Total Monthly Cost | $39.8336 | $0.0000 | $39.8336 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $39.9579 | | | $0.0000 |
| Common Cost Factor | | | X 1.1500 | | | X 1.1500 |
| Monthly Economic Cost | | | $45.9516 | | | $0.0000 |

**Total Monthly Economic Cost : $45.9516**

S90006

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Sensitive

**Tennessee**

**J.4.2 - Line Sharing Splitter, per System 24 Line Capacity**

06/22/2000

| | FRC | Sub FRC | A Material | B Inflation Factor | C=AxB Adjusted Material | D1 Plug-in Inventory Factor | D2 Mat'l Factor | D3 Telco Factor | D4 Plug-in Factor | D5 Hardwire Factor | E=Cx(D1xD2 x...xD5) In-Plant Investment | F Supporting Equipment &/or Power Loading | G=ExF Total Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | In-Plant Factors (Default = 1) | | | | | | | |
| Digital Elec Switch - MDF | 377C | 05 | $111.9939 | 1.0201 | $114.2487 | 1.0000 | 1.3120 | 1.0000 | 1.0000 | 1.0000 | $149.8891 | 1.1146 | $167.0613 |
| Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP | 257C | 03 | $46.8750 | 0.9800 | $45.9375 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 2.2180 | $101.8891 | 1.0274 | $104.6797 |
| Digtl Circ - Pair Gain - C.O. - Combined - MCEP | 257C | 15 | $1,214.7500 | 0.9800 | $1,190.4550 | 1.0000 | 1.4551 | 1.0000 | 1.0000 | 1.0000 | $1,732.2739 | 1.0274 | $1,779.7192 |

990000

## Land, Building, Pole, and Conduit Investment Development
## Volume Sensitive

**Tennessee**
**J.4.2 - Line Sharing Splitter, per System 24 Line Capacity**

| | FRC | Investment | |
|---|---|---|---|
| Land - COE | 20C | $9.2152 | = Sum of Col C |
| Buildings - COE | 10C | $238.5192 | = Sum of Col E |

06/22/2000

| | FRC | Sub FRC | A=Prev Page Col G Investment | B Land Factor | C=(AxB) Land Investment | D Building Factor | E=(AxD) Building Investment | F Pole Factor | G=(AxF) Pole Investment | H Conduit Factor | I=(AxH) Conduit Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Digital Elec Switch - MDF | 377C | 05 | $167.0613 | 0.0045 | $0.7504 | 0.1163 | $19.4239 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP | 257C | 03 | $104.6797 | 0.0045 | $0.4702 | 0.1163 | $12.1709 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| Digtl Circ - Pair Gain - C.O. - Combined - MCEP | 257C | 15 | $1,779.7192 | 0.0045 | $7.9945 | 0.1163 | $206.9244 | 0.0000 | $0.0000 | 0.0000 | $0.0000 |
| | | | | | $9.2152 | | $238.5192 | | $0.0000 | | $0.0000 |

090067

## Recurring Cost Development
## Volume Sensitive

**Tennessee**
**J.4.2 - Line Sharing Splitter, per System 24 Line Capacity**

| 06/22/2000 | | A=Prev Page Col A | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+I+K) | M | N=(AxM) | O=(L+N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FRC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expense | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
| Land - COE | 20C | $9.2152 | 0.0000 | $0.0000 | 0.0993 | $0.9151 | 0.0449 | $0.4133 | 0.0000 | $0.0000 | 0.0091 | $0.0835 | $1.4119 | 0.0000 | $0.0000 | $1.4119 |
| Buildings - COE | 10C | $238.5192 | 0.0230 | $5.4915 | 0.0780 | $18.6005 | 0.0352 | $8.4021 | 0.0742 | $17.7000 | 0.0091 | $2.1605 | $52.3546 | 0.0000 | $0.0000 | $52.3546 |
| Digital Elec Switch | 377C | $167.0613 | 0.0565 | $9.4340 | 0.0667 | $11.1365 | 0.0301 | $5.0305 | 0.0283 | $4.7303 | 0.0091 | $1.5132 | $31.8446 | 0.0000 | $0.0000 | $31.8446 |
| Digtl Circ - Pair Gain | 257C | $1,884.3989 | 0.0909 | $171.3090 | 0.0626 | $117.8847 | 0.0283 | $53.2503 | 0.0174 | $32.8790 | 0.0091 | $17.0689 | $392.3919 | 0.0000 | $0.0000 | $392.3919 |
| Annual Total | | $2,299.1945 | | | | | | | | | | | $478.0030 | | $0.0000 | $478.0030 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | $39.8336 | | $0.0000 | $39.8336 |

890000

## Nonrecurring Cost Summary

**Tennessee**
**J.4.2 - Line Sharing Splitter, per System 24 Line Capacity**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $342.2747 | $0.0000 | $342.2747 | | | $0.0000 |
| Total Cost | $342.2747 | $0.0000 | $342.2747 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $343.3429 | | | $0.0000 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$343.3429** | | | **$0.0000** |

690069

## Nonrecurring Cost Development

**Tennessee**

**J 4.2 - Line Sharing Splitter, per System 24 Line Capacity**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct | Install Cost | | Disconnect Cost | | | Discounted Disconnect Cost | | | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Labor Rate | First | Additional | First | Additional | Disconnect Discount Factor | First | Additional | Direct Cost First | Direct Cost Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 5000 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $15 5850 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $15 5850 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 4 0000 | 0 0000 | 0 0000 | 0 0000 | $29 10 | $116 4000 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $116 4000 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 3 0000 | 0 0000 | 0 0000 | 0 0000 | $50 98 | $152 9400 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $152 9400 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 7400 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $23 0658 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $23 0658 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 6700 | 0 0000 | 0 0000 | 0 0000 | $51 17 | $34 2839 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $34 2839 | $0 0000 |
| | | | | | | | | | | | | | | Total | 342 2747 | 0 0000 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 5000 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $15 5850 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $15 5850 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 4 0000 | 0 0000 | 0 0000 | 0 0000 | $29 10 | $116 4000 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $116 4000 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 3 0000 | 0 0000 | 0 0000 | 0 0000 | $50 98 | $152 9400 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $152 9400 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 7400 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $23 0658 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $23 0658 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 6700 | 0 0000 | 0 0000 | 0 0000 | $51 17 | $34 2839 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $34 2839 | $0 0000 |
| | | | | | | | | | | | | | | Total | 342 2747 | 0 0000 |

0000070

## Recurring Cost Summary

**Tennessee**
**J.4.3 - Line Sharing Splitter - per Line Activation - Central Office**

06/22/2000

| | Volume Sensitive | | | Volume Insensitive | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Recurring Cost Devel. Sheets Cols L, N, & O | $0.1409 | $0.0000 | $0.1409 | | | $0.0000 |
| **Other Expenses** | | | | | | |
| Telcordia Solution Software | $2.8741 | $0.0000 | $2.8741 | $0.0000 | $0.0000 | $0.0000 |
| Total Monthly Cost | $3.0150 | $0.0000 | $3.0150 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $3.0244 | | | $0.0000 |
| Common Cost Factor | | | X 1.1500 | | | X 1.1500 |
| Monthly Economic Cost | | | $3.4781 | | | $0.0000 |

**Total Monthly Economic Cost : $3.4781**

000074

## Investment Development (Excluding Land, Building, Pole, and Conduit)
## Volume Sensitive

**Tennessee**
**J.4.3 - Line Sharing Splitter - per Line Activation - Central Office**

06/22/2000

| | FRC | Sub FRC | A Material | B Inflation Factor | C=AxB Adjusted Material | D1 Plug-in Inventory Factor | D2 Mat'l Factor | D3 Telco Factor | D4 Plug-in Factor | D5 Hardwire Factor | E=Cx(D1xD2 x...xD5) In-Plant Investment | F Supporting Equipment &/or Power Loading | G=ExF Total Investment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | In-Plant Factors (Default = 1) | | | | | | | |
| Intangibles - General Purpose Software RTU | 460C | 00 | $186.6243 | 1.0000 | $186.6243 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | $186.6243 | 1.0000 | $186.6243 |

000072

## Recurring Cost Development
## Volume Sensitive

**Tennessee**
**J 4.3 - Line Sharing Splitter - per Line Activation - Central Office**

| 06/22/2000 | | A=Prev Page Col G | B | C=(AxB) | D | E=(AxD) | F | G=(AxF) | H | I=(AxH) | J | K=(AxJ) | L=(C+E+G+I+K) | M | N=(AxM) | O=(L+N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FRC | Investment | Depreciation Factor | Depreciation | Cost of Money Factor | Cost of Money | Income Tax Factor | Income Tax | Plant Specific Factor | Plant Specific Expense | Ad Valorem Factor | Ad Valorem Expense | Direct Cost | Shared Cost Factor | Shared Cost | TELRIC |
| Intangibles - General Purpose Software RTU | 460C | $186.8243 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0000 | $0.0000 | 0.0091 | $1.6904 | $1.6904 | 0.0000 | $0.0000 | $1.6904 |
| Annual Total | | $186.8243 | | | | | | | | | | | $1.6904 | | $0.0000 | $1.6904 |
| Monthly Total (Annual Total / 12) | | | | | | | | | | | | | $0.1409 | | $0.0000 | $0.1409 |

000073

# Nonrecurring Cost Summary

**Tennessee**
**J.4.3 - Line Sharing Splitter - per Line Activation - Central Office**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $48.8164 | $0.0000 | $48.8164 | $21.3241 | $0.0000 | $21.3241 |
| Total Cost | $48.8164 | $0.0000 | $48.8164 | $21.3241 | $0.0000 | $21.3241 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $48.9688 | | | $21.3907 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$48.9688** | | | **$21.3907** |

000074

## Nonrecurring Cost Development

**Tennessee**
**J 4 3 - Line Sharing Splitter - per Line Activation - Central Office**

06/22/2000

| Function | JFC/ Payband | JFC/Payband Description | A Installation Worktimes First | A Installation Worktimes Additional | B Disconnect Worktimes First | B Disconnect Worktimes Additional | C Direct Labor Rate | D=AxC Install Cost First | D=AxC Install Cost Additional | E=BxC Disconnect Cost First | E=BxC Disconnect Cost Additional | F Disconnect Discount Factor | G=ExF Discounted Disconnect Cost First | G=ExF Discounted Disconnect Cost Additional | H=D+G Direct Cost First | H=D+G Direct Cost Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 4500 | 0 0450 | 0 0000 | 0 0000 | $31 17 | $14 0265 | $1 4027 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $14 0265 | $1 4027 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0833 | 0 0208 | 0 0000 | 0 0000 | $50 98 | $4 2483 | $1 0621 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $4 2483 | $1 0621 |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0467 | 0 0467 | 0 0000 | 0 0000 | $34 31 | $1 6011 | $1 6011 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $1 6011 | $1 6011 |
| Work Management Center | 4WXX | Work Management Center (WMC) | 0 0500 | 0 0500 | 0 0000 | 0 0000 | $32 76 | $1 6380 | $1 6380 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $1 6380 | $1 6380 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 4167 | 0 1667 | 0 0000 | 0 0000 | $42 04 | $17 5167 | $7 0067 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $17 5167 | $7 0067 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0250 | 0 0250 | 0 0000 | 0 0000 | $50 98 | $1 2745 | $1 2745 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $1 2745 | $1 2745 |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0047 | 0 0047 | 0 0000 | 0 0000 | $34 31 | $0 1601 | $0 1601 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $0 1601 | $0 1601 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 0550 | 0 0750 | 0 0000 | 0 0000 | $42 04 | $2 3122 | $3 1530 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $2 3122 | $3 1530 |
| Installation & Maintenance | 410X | Install & Mtce - Pots | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $40 26 | $4 0260 | $4 0260 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $4 0260 | $4 0260 |
| Installation & Maintenance | 410X | Install & Mtce - Ppts | 0 0500 | 0 0000 | 0 0000 | 0 0000 | $40 26 | $2 0130 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $2 0130 | $0 0000 |
| | | | | | | | | | | | | | | Total | 48 8164 | 21 3241 |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktimes First | Installation Worktimes Additional | Disconnect Worktimes First | Disconnect Worktimes Additional | TELRIC Labor Rate | Install Cost First | Install Cost Additional | Disconnect Cost First | Disconnect Cost Additional | Disconnect Discount Factor | Discounted Disconnect Cost First | Discounted Disconnect Cost Additional | TELRIC First | TELRIC Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 4500 | 0 0450 | 0 0000 | 0 0000 | $31 17 | $14 0265 | $1 4027 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $14 0265 | $1 4027 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0833 | 0 0208 | 0 0000 | 0 0000 | $50 98 | $4 2483 | $1 0621 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $4 2483 | $1 0621 |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0467 | 0 0467 | 0 0000 | 0 0000 | $34 31 | $1 6011 | $1 6011 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $1 6011 | $1 6011 |
| Work Management Center | 4WXX | Work Management Center (WMC) | 0 0500 | 0 0500 | 0 0000 | 0 0000 | $32 76 | $1 6380 | $1 6380 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $1 6380 | $1 6380 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 4167 | 0 1667 | 0 0000 | 0 0000 | $42 04 | $17 5167 | $7 0067 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $17 5167 | $7 0067 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0250 | 0 0250 | 0 0000 | 0 0000 | $50 98 | $1 2745 | $1 2745 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $1 2745 | $1 2745 |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0047 | 0 0047 | 0 0000 | 0 0000 | $34 31 | $0 1601 | $0 1601 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $0 1601 | $0 1601 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 0550 | 0 0750 | 0 0000 | 0 0000 | $42 04 | $2 3122 | $3 1530 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $2 3122 | $3 1530 |
| Installation & Maintenance | 410X | Install & Mtce - Pots | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $40 26 | $4 0260 | $4 0260 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $4 0260 | $4 0260 |
| Installation & Maintenance | 410X | Install & Mtce - Pots | 0 0500 | 0 0000 | 0 0000 | 0 0000 | $40 26 | $2 0130 | $0 0000 | $0 0000 | $0 0000 | 1 0000 | $0 0000 | $0 0000 | $2 0130 | $0 0000 |
| | | | | | | | | | | | | | | Total | 48 8164 | 21 3241 |

000075

## Nonrecurring Cost Summary

**Tennessee**
**J.4.4 - Line Sharing Splitter - per Subsequent Activity per Line Rearrangement**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $33.1914 | $0.0000 | $33.1914 | $15.3871 | $0.0000 | $15.3871 |
| Total Cost | $33.1914 | $0.0000 | $33.1914 | $15.3871 | $0.0000 | $15.3871 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $33.2950 | | | $15.4352 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$33.2950** | | | **$15.4352** |

970076

## Nonrecurring Cost Development

**Tennessee**
**J 4 4 - Line Sharing Splitter - per Subsequent Activity per Line Rearrangement**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=DxG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Diconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0467 | 0 0467 | 0 0000 | 0 0000 | $34 31 | $1 6011 | $1 6011 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $1 6011 | $1 6011 |
| Work Management Center | 4WXX | Work Management Center (WMC) | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $32 76 | $3 2760 | $3 2760 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $3 2760 | $3 2760 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 6167 | 0 2500 | 0 0000 | 0 0000 | $42 04 | $25 9247 | $10 5100 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $25 9247 | $10 5100 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 0308 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $0 9611 | $0 0000 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $0 9611 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 0279 | 0 0000 | 0 0000 | 0 0000 | $51 17 | $1 4285 | $0 0000 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $1 4285 | $0 0000 |
| | | | | | | | | | | | | | | Total | 33 1914 | 15 3871 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0467 | 0 0467 | 0 0000 | 0 0000 | $34 31 | $1 6011 | $1 6011 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $1 6011 | $1 6011 |
| Work Management Center | 4WXX | Work Management Center (WMC) | 0 1000 | 0 1000 | 0 0000 | 0 0000 | $32 76 | $3 2760 | $3 2760 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $3 2760 | $3 2760 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 6167 | 0 2500 | 0 0000 | 0 0000 | $42 04 | $25 9247 | $10 5100 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $25 9247 | $10 5100 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 0308 | 0 0000 | 0 0000 | 0 0000 | $31 17 | $0 9611 | $0 0000 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $0 9611 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 0279 | 0 0000 | 0 0000 | 0 0000 | $51 17 | $1 4285 | $0 0000 | $0 0000 | $0 0000 | 1 1721 | $0 0000 | $0 0000 | $1 4285 | $0 0000 |
| | | | | | | | | | | | | | | Total | 33 1914 | 15 3871 |

220077

## Nonrecurring Cost Summary

**Tennessee**

**J.4.199 - Line Sharing Splitter, per System 96 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

**Nonrecurring Cost**

| | First | | | | Additional | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $332.9506 | $0.0000 | | $332.9506 | | | | $0.0000 |
| Total Cost | $332.9506 | $0.0000 | | $332.9506 | $0.0000 | $0.0000 | | $0.0000 |
| Gross Receipts Tax Factor | | | X | 1.0031 | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $333.9898 | | | | $0.0000 |
| Common Cost Factor | | | X | 1.0000 | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$333.9898** | | | | **$0.0000** |

000078

## Nonrecurring Cost Development

**Tennessee**

**J 4.199 - Line Sharing Splitter, per System 96 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $0 0000 | 1 1721 | $18 2664 | $0 0000 | $18 2664 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 0 0000 | 0 0000 | 2 0000 | 0 0000 | $29 10 | $0 0000 | $0 0000 | $58 2000 | $0 0000 | 1 1721 | $68 2135 | $0 0000 | $68 2135 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0000 | 0 0000 | 3 0000 | 0 0000 | $50 98 | $0 0000 | $0 0000 | $152 9400 | $0 0000 | 1 1721 | $179 2538 | $0 0000 | $179 2538 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 0000 | 0 0000 | 0 7400 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $23 0658 | $0 0000 | 1 1721 | $27 0343 | $0 0000 | $27 0343 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 0000 | 0 0000 | 0 6700 | 0 0000 | $51 17 | $0 0000 | $0 0000 | $34 2839 | $0 0000 | 1 1721 | $40 1826 | $0 0000 | $40 1826 | $0 0000 |
| | | | | | | | | | | | | | | Total | 332 9506 | 0 0000 |

| | | | Installation Worktimes | | Disconnect Worktimes | | TELRIC Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | TELRIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $0 0000 | 1 1721 | $18 2664 | $0 0000 | $18 2664 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 0 0000 | 0 0000 | 2 0000 | 0 0000 | $29 10 | $0 0000 | $0 0000 | $58 2000 | $0 0000 | 1 1721 | $68 2135 | $0 0000 | $68 2135 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0000 | 0 0000 | 3 0000 | 0 0000 | $50 98 | $0 0000 | $0 0000 | $152 9400 | $0 0000 | 1 1721 | $179 2538 | $0 0000 | $179 2538 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 0000 | 0 0000 | 0 7400 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $23 0658 | $0 0000 | 1 1721 | $27 0343 | $0 0000 | $27 0343 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 0000 | 0 0000 | 0 6700 | 0 0000 | $51 17 | $0 0000 | $0 0000 | $34 2839 | $0 0000 | 1 1721 | $40 1826 | $0 0000 | $40 1826 | $0 0000 |
| | | | | | | | | | | | | | | Total | 332 9506 | 0 0000 |

62.0000

## Nonrecurring Cost Summary

**Tennessee**

**J.4.299 - Line Sharing Splitter, per System 24 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

**Nonrecurring Cost**

| | First | | | Additional | | |
|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | TELRIC | Direct Cost | Shared Cost | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $332.9506 | $0.0000 | $332.9506 | | | $0.0000 |
| Total Cost | $332.9506 | $0.0000 | $332.9506 | $0.0000 | $0.0000 | $0.0000 |
| Gross Receipts Tax Factor | | | X 1.0031 | | | X 1.0031 |
| Cost (including Gross Receipts Tax) | | | $333.9898 | | | $0.0000 |
| Common Cost Factor | | | X 1.0000 | | | X 1.0000 |
| **Nonrecurring Economic Cost** | | | **$333.9898** | | | **$0.0000** |

080000

## Nonrecurring Cost Development

Tennessee

J 4 299 - Line Sharing Splitter, per System 24 Line Capacity - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect

06/22/2000

| | | | A | | B | | C | D=AxC | | E=BxC | | F | G=ExF | | H=D+G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Installation Worktimes | | Disconnect Worktimes | | Direct Labor | Install Cost | | Disconnect Cost | | Disconnect Discount | Discounted Disconnect Cost | | Direct Cost | |
| Function | JFC/ Payband | JFC/Payband Description | First | Additional | First | Additional | Rate | First | Additional | First | Additional | Factor | First | Additional | First | Additional |
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $0 0000 | 1 1721 | $18 2664 | $0 0000 | $18 2664 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 0 0000 | 0 0000 | 2 0000 | 0 0000 | $29 10 | $0 0000 | $0 0000 | $58 2000 | $0 0000 | 1 1721 | $68 2135 | $0 0000 | $68 2135 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0000 | 0 0000 | 3 0000 | 0 0000 | $50 98 | $0 0000 | $0 0000 | $152 9400 | $0 0000 | 1 1721 | $179 2538 | $0 0000 | $179 2538 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 0000 | 0 0000 | 0 7400 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $23 0658 | $0 0000 | 1 1721 | $27 0343 | $0 0000 | $27 0343 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 0000 | 0 0000 | 0 6700 | 0 0000 | $51 17 | $0 0000 | $0 0000 | $34 2839 | $0 0000 | 1 1721 | $40 1826 | $0 0000 | $40 1826 | $0 0000 |
| | | | | | | | | | | | | | | Total | 332 9506 | 0 0000 |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktimes First | Installation Worktimes Additional | Disconnect Worktimes First | Disconnect Worktimes Additional | TELRIC Labor Rate | Install Cost First | Install Cost Additional | Disconnect Cost First | Disconnect Cost Additional | Disconnect Discount Factor | Discounted Disconnect Cost First | Discounted Disconnect Cost Additional | TELRIC First | TELRIC Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 5000 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $15 5850 | $0 0000 | 1 1721 | $18 2664 | $0 0000 | $18 2664 | $0 0000 |
| COSMOS / SWITCH | 2730 | Network Services Clerical | 0 0000 | 0 0000 | 2 0000 | 0 0000 | $29 10 | $0 0000 | $0 0000 | $58 2000 | $0 0000 | 1 1721 | $68 2135 | $0 0000 | $68 2135 | $0 0000 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0000 | 0 0000 | 3 0000 | 0 0000 | $50 98 | $0 0000 | $0 0000 | $152 9400 | $0 0000 | 1 1721 | $179 2538 | $0 0000 | $179 2538 | $0 0000 |
| Complex Resale Support Group | 221X | Complex Resale Support Group (CRSG) | 0 0000 | 0 0000 | 0 7400 | 0 0000 | $31 17 | $0 0000 | $0 0000 | $23 0658 | $0 0000 | 1 1721 | $27 0343 | $0 0000 | $27 0343 | $0 0000 |
| Complex Resale Support Group | SDWC | Systems Designer w/Sales Com | 0 0000 | 0 0000 | 0 6700 | 0 0000 | $51 17 | $0 0000 | $0 0000 | $34 2839 | $0 0000 | 1 1721 | $40 1826 | $0 0000 | $40 1826 | $0 0000 |
| | | | | | | | | | | | | | | Total | 332 9506 | 0 0000 |

080081

# Nonrecurring Cost Summary

**Tennessee**

**J.4.399 - Line Sharing Splitter - per Line Activation - Central Office - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

**Nonrecurring Cost**

| | First | | | | Additional | | | |
|---|---|---|---|---|---|---|---|---|
| | Direct Cost | Shared Cost | | TELRIC | Direct Cost | Shared Cost | | TELRIC |
| Nonrecurring Cost Development Sheet Col H | $35.0701 | $0.0000 | | $35.0701 | $10.7913 | $0.0000 | | $10.7913 |
| Total Cost | $35.0701 | $0.0000 | | $35.0701 | $10.7913 | $0.0000 | | $10.7913 |
| Gross Receipts Tax Factor | | | X | 1.0031 | | | X | 1.0031 |
| Cost (including Gross Receipts Tax) | | | | $35.1796 | | | | $10.8250 |
| Common Cost Factor | | | X | 1.0000 | | | X | 1.0000 |
| **Nonrecurring Economic Cost** | | | | **$35.1796** | | | | **$10.8250** |

280000

## Nonrecurring Cost Development

**Tennessee**

**J 4.399 - Line Sharing Splitter - per Line Activation - Central Office - Incremental Cost - Manual Svc. Order vs. Electronic - Disconnect**

06/22/2000

| Function | JFC/ Payband | JFC/Payband Description | A Installation Worktimes First | A Installation Worktimes Additional | B Disconnect Worktimes First | B Disconnect Worktimes Additional | C Direct Labor Rate | D=AxC Install Cost First | D=AxC Install Cost Additional | E=BxC Disconnect Cost First | E=BxC Disconnect Cost Additional | F Disconnect Discount Factor | G=ExF Discounted Disconnect Cost First | G=ExF Discounted Disconnect Cost Additional | H=D+G Direct Cost First | H=D+G Direct Cost Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 4500 | 0 0450 | $31 17 | $0 0000 | $0 0000 | $14 0265 | $1 4027 | 1 1721 | $16 4398 | $1 6440 | $16 4398 | $1 6440 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0000 | 0 0000 | 0 0833 | 0 0208 | $50 98 | $0 0000 | $0 0000 | $4 2483 | $1 0621 | 1 1721 | $4 9793 | $1 2448 | $4 9793 | $1 2448 |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0000 | 0 0000 | 0 0467 | 0 0467 | $34 31 | $0 0000 | $0 0000 | $1 6011 | $1 6011 | 1 1721 | $1 8766 | $1 8766 | $1 8766 | $1 8766 |
| Work Management Center | 4WXX | Work Management Center (WMC) | 0 0000 | 0 0000 | 0 0500 | 0 0500 | $32 76 | $0 0000 | $0 0000 | $1 6380 | $1 6380 | 1 1721 | $1 9198 | $1 9198 | $1 9198 | $1 9198 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 0000 | 0 0000 | 0 2000 | 0 0833 | $42 04 | $0 0000 | $0 0000 | $8 4080 | $3 5033 | 1 1721 | $9 8546 | $4 1061 | $9 8546 | $4 1061 |
| | | | | | | | | | | | | | | Total | 35 0701 | 10 7913 |

| Function | JFC/ Payband | JFC/Payband Description | Installation Worktimes First | Installation Worktimes Additional | Disconnect Worktimes First | Disconnect Worktimes Additional | TELRIC Labor Rate | Install Cost First | Install Cost Additional | Disconnect Cost First | Disconnect Cost Additional | Disconnect Discount Factor | Discounted Disconnect Cost First | Discounted Disconnect Cost Additional | TELRIC First | TELRIC Additional |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Local Carrier Service Center | 230X | Customer Point Of Contact - ICSC/LCSC | 0 0000 | 0 0000 | 0 4500 | 0 0450 | $31 17 | $0 0000 | $0 0000 | $14 0265 | $1 4027 | 1 1721 | $16 4398 | $1 6440 | $16 4398 | $1 6440 |
| Circuit Capacity Management | 34XX | Ntwk & Eng Planning (FG20) | 0 0000 | 0 0000 | 0 0833 | 0 0208 | $50 98 | $0 0000 | $0 0000 | $4 2483 | $1 0621 | 1 1721 | $4 9793 | $1 2448 | $4 9793 | $1 2448 |
| Assignment Facility Inventory Group | 4M1X | Address & Facility Inventory (AFIG) | 0 0000 | 0 0000 | 0 0467 | 0 0467 | $34 31 | $0 0000 | $0 0000 | $1 6011 | $1 6011 | 1 1721 | $1 8766 | $1 8766 | $1 8766 | $1 8766 |
| Work Management Center | 4WXX | Work Management Center (WMC) | 0 0000 | 0 0000 | 0 0500 | 0 0500 | $32 76 | $0 0000 | $0 0000 | $1 6380 | $1 6380 | 1 1721 | $1 9198 | $1 9198 | $1 9198 | $1 9198 |
| CO Install & Mtce Field - Ckt & Fac | 431X | CO Install & Mtce Field - Ckt & Fac | 0 0000 | 0 0000 | 0 2000 | 0 0833 | $42 04 | $0 0000 | $0 0000 | $8 4080 | $3 5033 | 1 1721 | $9 8546 | $4 1061 | $9 8546 | $4 1061 |
| | | | | | | | | | | | | | | Total | 35 0701 | 10 7913 |

080083

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Tennessee | | | | | | | | | | |
| 2 | Index Sheet | | | | | | | | | | |
| 3 | Study Period: 2000-2002 | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | **Sheet Name:** | | **Description:** | | | | | | |
| 10 | | | Index | | 2-Wire and 4-Wire Intrabuilding Network Cable (INC) | | | | | | |
| 11 | | | Investments | | CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA | | | | | | |
| 12 | | | Additives_Recurring | | CALCULATOR INPUT FORM - RECURRING EXPENSES DATA | | | | | | |
| 13 | | | Additives_Nonrecurring | | CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA | | | | | | |
| 14 | | | Recurring Labor | | CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA | | | | | | |
| 15 | | | Nonrecurring Labor | | CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES | | | | | | |
| 16 | | | INPUT | | Material | | | | | | |
| 17 | | | WP100 | | Recurring Cost Development - 2-Wire | | | | | | |
| 18 | | | WP200 | | Recurring Cost Development - 4-Wire | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |

000084

| | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA** | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | **Instructions:** | | | | | | | | |
| 4 | | **1. Use this worksheet to record material and/or investments to be input into the** | | | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | **Volume** | **Volume** | | | | |
| 13 | | **Cost** | | **Sub** | **Sensitive** | **Insensitive** | | | | |
| 14 | **State** | **Element #** | **FRC** | **FRC** | **$ Amount** | **$ Amount** | | | | |
| 15 | TN | A.2.14 | 12C | 00 | | 5.6639 | | | | |
| 16 | TN | A.2.14 | 52C4 | 00 | | 4.0355 | | | | |
| 17 | TN | A.2.14 | 52C | 00 | | 4.6326 | | | | |
| 18 | TN | A.2.15 | 12C | 00 | | 11.3277 | | | | |
| 19 | TN | A.2.15 | 52C4 | 00 | | 8.0710 | | | | |
| 20 | TN | A.2.15 | 52C | 00 | | 9.2652 | | | | |
| 21 | | | | | | | | | | |
| 22 | | END | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

S80000

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - RECURRING EXPENSES DATA** | | | | | | |
| 2 | | | | | | | | |
| 3 | | **Instructions:** | | | | | | |
| 4 | | **1. Use this worksheet to record recurring non-labor expenses to be input into the** | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | **Recurring** | **Recurring** | | | |
| 15 | | | **Recurring** | **Volume** | **Volume** | | | |
| 16 | | **Cost** | **Expense Description** | **Sensitive** | **Insensitive** | | | |
| 17 | **State** | **Element #** | **(Limited to 25 characters)** | **$ Amount** | **$ Amount** | | | |
| 18 | TN | A.2.14 | Subscriber Line Testing | $0.2061 | | | | |
| 19 | TN | A.2.14 | NTW Monthly Cost Per Access Line | $0.1301 | | | | |
| 20 | TN | A.2.15 | Subscriber Line Testing | $0.2061 | | | | |
| 21 | TN | A.2.15 | NTW Monthly Cost Per Access Line | $0.1301 | | | | |
| 22 | | | | | | | | |
| 23 | | END | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | Maximum 10 entries per Cost Element # | | | | | |
| 28 | | | | | | | | |

980086

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA** | | | | | | |
| 2 | | | | | | | | |
| 3 | | **Instructions:** | | | | | | |
| 4 | | **1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.** | | | | | | |
| 5 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | |
| 6 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | |
| 7 | | **after last line of data, type END in Cost Element Column.** | | | | | | |
| 8 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | |
| 9 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | |
| 10 | | **6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first** | | | | | | |
| 11 | | **and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.** | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | **Nonrecurring** | | **Nonrecurring** | **Nonrecurring** | **Nonrecurring** | **Nonrecurring** |
| 15 | | **Cost** | **Expense Description** | **Nonrecurring** | **First** | **Additional** | **Initial** | **Subsequent** |
| 16 | **State** | **Element #** | **(Limited to 25 characters)** | **$ Amount** | **$ Amount** | **$ Amount** | **$ Amount** | **$ Amount** |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | Maximum 10 entries per Cost Element # | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

**CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA**

**Instructions:**

1. **Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

| State | Cost Element # | Labor Expense Description (Limited to 25 characters) | JFC/ Payband | Work Time (Hours) Volume Sensitive | Work Time (Hours) Volume Insensitive |
|---|---|---|---|---|---|
| | | | | | |

Maximum 20 entries per Cost Element #

880000

**CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES**

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.) 6/1/2001

| State | Cost Element # | Cost Element Life (Mo) | Labor Expense Description (Limited to 25 characters) | JFC/ Payband | (For use w/ one NR) Installation Time (Hours) | (For use w/ one NR) Disconnect Time Hours | First Installation Time (Hours) | First Disconnect Time Hours | Additional Installation Time (Hours) | Additional Disconnect Time Hours | Initial Installation Time (Hours) | Initial Disconnect Time Hours | Subsequent Installation Time (Hours) | Subsequent Disconnect Time Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TN | A.2.14 | 46 | SERVICE INQUIRY | 230X | | | 0.7500 | | 0.1667 | | | | | |
| TN | A.2.14 | 46 | ENGINEERING | 4M1X | | | 0.1333 | | 0.1333 | | | | | |
| TN | A.2.14 | 46 | ENGINEERING | JG57 | | | 0.1000 | | 0.1000 | | | | | |
| TN | A.2.14 | 46 | CONNECT & TURN-UP TEST | 4WXX | | | 0.1250 | | 0.0000 | | | | | |
| TN | A.2.14 | 46 | CONNECT & TURN-UP TEST | 4AXX | | | 0.2578 | | 0.0000 | | | | | |
| TN | A.2.14 | 46 | CONNECT & TURN-UP TEST | 411X | | | 0.7300 | | 0.3400 | | | | | |
| TN | A.2.14 | 46 | TRAVEL | 411X | | | 0.3333 | | 0.0000 | | | | | |
| TN | A.2.1499 | 46 | SERVICE INQUIRY | 230X | | | | 0.5000 | | 0.1667 | | | | |
| TN | A.2.1499 | 46 | ENGINEERING | 4M1X | | | | 0.1333 | | 0.1333 | | | | |
| TN | A.2.1499 | 46 | ENGINEERING | JG57 | | | | 0.0000 | | 0.0000 | | | | |
| TN | A.2.1499 | 46 | CONNECT & TURN-UP TEST | 4WXX | | | | 0.2500 | | 0.0000 | | | | |
| TN | A.2.1499 | 46 | CONNECT & TURN-UP TEST | 4AXX | | | | 0.4323 | | 0.0000 | | | | |
| TN | A.2.1499 | 46 | CONNECT & TURN-UP TEST | 411X | | | | 0.7833 | | 0.1333 | | | | |
| TN | A.2.1499 | 46 | TRAVEL | 411X | | | | 0.3333 | | 0.0000 | | | | |
| TN | A.2.1498 | 46 | CONNECT & TURN-UP TEST | 4WXX | | | 0.1250 | | 0.0000 | | | | | |
| TN | A.2.1498 | 46 | CONNECT & TURN-UP TEST | 4AXX | | | 0.2578 | | 0.0000 | | | | | |
| TN | A.2.1498 | 46 | CONNECT & TURN-UP TEST | 411X | | | 0.4867 | | 0.2267 | | | | | |
| TN | A.2.15 | 52 | SERVICE INQUIRY | 230X | | | 0.7500 | | 0.1667 | | | | | |
| TN | A.2.15 | 52 | ENGINEERING | 4M1X | | | 0.1333 | | 0.1333 | | | | | |
| TN | A.2.15 | 52 | ENGINEERING | JG57 | | | 0.1000 | | 0.1000 | | | | | |
| TN | A.2.15 | 52 | CONNECT & TURN-UP TEST | 4WXX | | | 0.1250 | | 0.0000 | | | | | |
| TN | A.2.15 | 52 | CONNECT & TURN-UP TEST | 4AXX | | | 0.3868 | | 0.0000 | | | | | |
| TN | A.2.15 | 52 | CONNECT & TURN-UP TEST | 411X | | | 1.0950 | | 0.5100 | | | | | |
| TN | A.2.15 | 52 | TRAVEL | 411X | | | 0.3333 | | 0.0000 | | | | | |
| TN | A.2.1599 | 52 | SERVICE INQUIRY | 230X | | | | 0.5000 | | 0.1667 | | | | |
| TN | A.2.1599 | 52 | ENGINEERING | 4M1X | | | | 0.1333 | | 0.1333 | | | | |
| TN | A.2.1599 | 52 | ENGINEERING | JG57 | | | | 0.0000 | | 0.0000 | | | | |
| TN | A.2.1599 | 52 | CONNECT & TURN-UP TEST | 4WXX | | | | 0.2500 | | 0.0000 | | | | |
| TN | A.2.1599 | 52 | CONNECT & TURN-UP TEST | 4AXX | | | | 0.5157 | | 0.0000 | | | | |
| TN | A.2.1599 | 52 | CONNECT & TURN-UP TEST | 411X | | | | 0.7833 | | 0.1333 | | | | |
| TN | A.2.1599 | 52 | TRAVEL | 411X | | | | 0.3333 | | 0.0000 | | | | |
| TN | A.2.1598 | 52 | CONNECT & TURN-UP TEST | 4WXX | | | 0.1250 | | 0.0000 | | | | | |
| TN | A.2.1598 | 52 | CONNECT & TURN-UP TEST | 4AXX | | | 0.3868 | | 0.0000 | | | | | |
| TN | A.2.1598 | 52 | CONNECT & TURN-UP TEST | 411X | | | 0.7300 | | 0.3400 | | | | | |
| | END | | | | | | | | | | | | | |

Maximum of 25 entries per Cost Element #

680000

| | A | B | C |
|---|---|---|---|
| 1 | Tennessee | | |
| 2 | Material | | |
| 3 | Study Period: 2000-2002 | | |
| 4 | | | |
| 5 | Element #s: A.2.14 & A.2.15 | | |
| 6 | Item/Description | Source | Amount |
| 7 | FRC 12C | | |
| 8 | Average Entrance Terminal Size, Pairs | Network | |
| 9 | Entrance Terminal Portion for Feeder | Network | 33.3% |
| 10 | Entrance Terminal Portion for Distribution | Network | 66.7% |
| 11 | Building Terminal Cost, Per 100 Pairs | X-Box Material Table 54, Line 27 | |
| 12 | | | |
| 13 | Utilization for Feeder | TRA Order | 65.1% |
| 14 | | | |
| 15 | FRC 52C4 | | |
| 16 | 24 Gauge Riser Cable - Average Size, Pairs | Network | 600 |
| 17 | 24 Gauge Riser Cable - Average Length, Feet | Network | |
| 18 | 24 Gauge Riser Cable - 600 Pair, Cost/Foot | Cable Material Table 50, Line 130 | |
| 19 | | | |
| 20 | FRC 52C | | |
| 21 | 26 Gauge Riser Cable - Average Size, Pairs | Network | 900 |
| 22 | 26 Gauge Riser Cable - Average Length, Feet | Network | |
| 23 | 26 Gauge Riser Cable - 600 Pair, Cost/Foot | Cable Material Table 50, Line 112 | |
| 24 | | | |
| 25 | Utilization for Distribution | TRA Order | 50.2% |

060000



PRIVATE/PROPRIETARY
No disclosure outside BellSouth except by written agreement.

| | A | B | C | D |
|---|---|---|---|---|
| 1 | Tennessee | | | |
| 2 | Recurring Cost Development - 2-Wire | | | |
| 3 | Study Period: 2000-2002 | | | |
| 4 | | | | |
| 5 | Element #: A.2.14 | | | |
| 6 | Item/Description | | Source | Amount |
| 7 | Description | FRC | | |
| 8 | Entrance Terminal Cost | 12C | INPUT, C8 * INPUT, C11 / 100 | $8,310.8700 |
| 9 | Apply Utilization to 12C Cost | 12C | D8 * INPUT, C9 / INPUT, C13 + D8 * INPUT, C10 / INPUT, C25 | $15,292.4497 |
| 10 | Entrance Terminal, Cost/2-Wire | 12C | D9 / INPUT, C8 | $5.6639 |
| 11 | | | | |
| 12 | 24 Gauge Riser Cable Cost | 52C4 | INPUT, C17 * INPUT, C18 | $1,215.5000 |
| 13 | Apply Utilization to 24 Gauge Riser Cable Cost | 52C4 | D12 / INPUT, C25 | $2,421.3147 |
| 14 | 24 Gauge Riser Cable, Cost/2-Wire | 52C4 | D13 / INPUT, C16 | $4.0355 |
| 15 | | | | |
| 16 | 26 Gauge Riser Cable Cost | 52C | INPUT, C22 * INPUT, C23 | $2,093.0000 |
| 17 | Apply Utilization to 26 Gauge Riser Cable Cost | 52C | D16 / INPUT, C25 | $4,169.3227 |
| 18 | 26 Gauge Riser Cable, Cost/2-Wire | 52C | D17 / INPUT, C21 | $4.6326 |

000091

| | A | B | C | D |
|---|---|---|---|---|
| 1 | Tennessee | | | |
| 2 | Recurring Cost Development - 4-Wire | | | |
| 3 | Study Period: 2000-2002 | | | |
| 4 | | | | |
| 5 | Element #: A.2.15 | | | |
| 6 | Item/Description | | Source | Amount |
| 7 | Description | FRC | | |
| 8 | Entrance Terminal Cost | 12C | INPUT, C8 * INPUT, C11 / 100 | $8,310.8700 |
| 9 | Apply Utilization to 12C Cost | 12C | D8 * INPUT, C9 / INPUT, C13 + D8 * INPUT, C10 / INPUT, C25 | $15,292.4497 |
| 10 | Entrance Terminal, Cost/4-Wire | 12C | D9 / INPUT, C8 * 2 | $11.3277 |
| 11 | | | | |
| 12 | 24 Gauge Riser Cable Cost | 52C4 | INPUT, C17 * INPUT, C18 | $1,215.5000 |
| 13 | Apply Utilization to 24 Gauge Riser Cable | 52C4 | D12 / INPUT, C25 | $2,421.3147 |
| 14 | 24 Gauge Riser Cable, Cost/4-Wire | 52C4 | D13 / INPUT, C16 * 2 | $8.0710 |
| 15 | | | | |
| 16 | 26 Gauge Riser Cable Cost | 52C | INPUT, C22 * INPUT, C23 | $2,093.0000 |
| 17 | Apply Utilization to 26 Gauge Riser Cable | 52C | D16 / INPUT, C25 | $4,169.3227 |
| 18 | 26 Gauge Riser Cable, Cost/4-Wire | 52C | D17 / INPUT, C21 * 2 | $9.2652 |

290000

NONRECURRING COST STUDY INPUT - VERSION 2.0 —ASSUMES MANUAL SERVICE ORDER ENTRY—

**UNBUNDLED SUB-LOOP INTRABUILDING NETWORK CABLE (INC) 2-WIRE PROVISIONING (Non-Designed Circuit)**

| | |
|---|---|
| DISCONNECT LOCATION | |
| LIFE (MOS.): | 46 |
| STATE: | TN |
| COST ELEMENT #: | A.2.14 INSTALL |
| | A.2.1499 DISCONNECT |
| | A.2.1498 TESTING ONLY |
| STUDY PERIOD: | 2000-2002 |

| DESCRIPTION | WORK CENTERS / WORK ACTIVITIES | SME | JFC | FIRST INSTALL | FIRST DISCONNECT | ADDTL INSTALL | ADDTL DISCONNECT |
|---|---|---|---|---|---|---|---|
| SERVICE INQUIRY | LCSC receives service inquiry, validates for accuracy and processes order. | Interconn Svcs | 230X | 0.7500 | 0.5000 | 0.1667 | 0.1667 |
| ENGINEERING | AFIG assigns loop facilities | Network | 4M1X | 0.1333 | 0.1333 | 0.1333 | 0.1333 |
| ENGINEERING | OSPE reviews request and handles request for manual assistance (RMA) | Network | JG57 | 0.1000 | 0.0000 | 0.1000 | 0.0000 |
| CONNECT & TURN-UP TEST | WMC coordinates dispatched technicians | Network | 4WXX | 0.2500 | 0.2500 | 0.0000 | 0.0000 |
| CONNECT & TURN-UP TEST | UNEC pulls order information and assigns to work groups; ensures dispatch and contacts customer and completes order. | Network | 4AXX | 0.5157 | 0.4323 | 0.0000 | 0.0000 |
| CONNECT & TURN-UP TEST | SSIM processes request, places cross-connect, tests circuit, tags circuit and completes order. | Network | 411X | 1.2167 | 0.7833 | 0.5667 | 0.1333 |
| TRAVEL | SSIM dispatched to cross-connect point. | Network | 411X | 0.3333 | 0.3333 | 0.0000 | 0.0000 |

**ASSUMPTIONS:**

**1) Assumes 100% dispatch to connect.**

**2) This UNE is a non-designed circuit. (If this circuit is combined with concentrated transport, then the circuit becomes a designed circuit.)**

**3) OSPE engineering time assumes a 10% fall-out rate requiring manual intervention (RMA) - occurs with unbundling when loop terminates other than in the switch.**

000093

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | | | | | | | | | | | |
| 31 | NONRECURRING COST STUDY INPUT - VERSION 2.0 | | | | | ---ASSUMES MANUAL SERVICE ORDER ENTRY--- | | | | | |
| 32 | **UNBUNDLED SUB-LOOP INTRABUILDING NETWORK CABLE (INC) 4-WIRE PROVISIONING (Non-Designed Circuits)** | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | **DISCONNECT LOCATION LIFE (MOS.):** | **52** | | | | | | | | | |
| 35 | | | | | | | | | | | |
| 36 | **STATE:** | **TN** | | | | | | | | | |
| 37 | **COST ELEMENT #:** | **A.2.15** | INSTALL | | | | | | | | |
| 38 | | **A.2.1599** | DISCONNECT | | | | | | | | |
| 39 | | **A.2.1598** | TESTING ONLY | | | | | | | | |
| 40 | | | | | | | | | | | |
| 41 | **STUDY PERIOD:** | **2000-2002** | | | | | | | | | |
| 42 | | | | | | | | | | | |
| 43 | **DESCRIPTION** | **WORK CENTERS / WORK ACTIVITIES** | **SME** | **JFC** | **FIRST INSTALL** | **FIRST DISCONNECT** | **ADDTL INSTALL** | **ADDTL DISCONNECT** | | | |
| 44 | | | | | | | | | | | |
| 45 | SERVICE INQUIRY | LCSC receives service inquiry, validates for accuracy and processes order. | Interconn Svcs | 230X | 0.7500 | 0.5000 | 0.1667 | 0.1667 | | | |
| 46 | ENGINEERING | AFIG assigns loop facilities | Network | 4M1X | 0.1333 | 0.1333 | 0.1333 | 0.1333 | | | |
| 47 | ENGINEERING | OSPE reviews request and handles request for manual assistance (RMA) | Network | JG57 | 0.1000 | 0.0000 | 0.1000 | 0.0000 | | | |
| 48 | CONNECT & TURN-UP TEST | WMC coordinates dispatched technicians | Network | 4WXX | 0.2500 | 0.2500 | 0.0000 | 0.0000 | | | |
| 49 | CONNECT & TURN-UP TEST | UNEC pulls order information and assigns to work groups; ensures dispatch and contacts customer and completes order. | Network | 4AXX | 0.7735 | 0.5157 | 0.0000 | 0.0000 | | | |
| 50 | CONNECT & TURN-UP TEST | SSIM processes request, places cross-connect, tests circuit, tags circuit and | Network | 411X | 1.8250 | 0.7833 | 0.8500 | 0.1333 | | | |
| 51 | TRAVEL | SSIM dispatched to cross-connect point. | Network | 411X | 0.3333 | 0.3333 | 0.0000 | 0.0000 | | | |
| 52 | | | | | | | | | | | |
| 53 | | | | | | | | | | | |
| 54 | **ASSUMPTIONS:** | | | | | | | | | | |
| 55 | **1) Assumes 100% dispatch to connect.** | | | | | | | | | | |
| 56 | **2) This UNE is a non-designed circuit. (If this circuit is combined with concentrated transport, then the circuit** | | | | | | | | | | |
| 57 | **becomes a designed circuit.)** | | | | | | | | | | |
| 58 | **3) OSPE engineering time assumes a 10% fall-out rate requiring manual intervention (RMA) - occurs with unbundling when loop terminates other than in the switch.** | | | | | | | | | | |

000094

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Tennessee | | | | | | | | | | |
| 2 | Index Sheet | | | | | | | | | | |
| 3 | Study Period: 2000-2002 | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | **Sheet Name:** | | **Description:** | | | | | | |
| 10 | | | Index | | Unbundled Subloop | | | | | | |
| 11 | | | Investments | | CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA | | | | | | |
| 12 | | | Additives_Recurring | | CALCULATOR INPUT FORM - RECURRING EXPENSES DATA | | | | | | |
| 13 | | | Additives_Nonrecurring | | CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA | | | | | | |
| 14 | | | Recurring Labor | | CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA | | | | | | |
| 15 | | | Nonrecurring Labor | | CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES | | | | | | |
| 16 | | | INPUT | | PANEL MATERIAL COSTS | | | | | | |
| 17 | | | WP100 | | SUB-LOOP - SET-UP PER BUILDING EQUIPMENT ROOM - CLEC Feeder Facility S | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |

S60095

| | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA** | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | **Instructions:** | | | | | | | | |
| 4 | | **1. Use this worksheet to record material and/or investments to be input into the** | | | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | **Volume** | **Volume** | | | | |
| 13 | | **Cost** | | **Sub** | **Sensitive** | **Insensitive** | | | | |
| 14 | **State** | **Element #** | **FRC** | **FRC** | **$ Amount** | **$ Amount** | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

960000

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | CALCULATOR INPUT FORM - RECURRING EXPENSES DATA | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | Instructions: | | | | | | | |
| 4 | | 1. Use this worksheet to record recurring non-labor expenses to be input into the | | | | | | | |
| 5 | | Calculator calculations. | | | | | | | |
| 6 | | 2. All amounts shown are per unit (e.g., per call, per loop, per MOU). | | | | | | | |
| 7 | | 3. Input data, by Cost Element, leaving no blank lines. On next row | | | | | | | |
| 8 | | after last line of data, type END in Cost Element Column. | | | | | | | |
| 9 | | 4. All data on this form should be cell-referenced to study workpapers. | | | | | | | |
| 10 | | 5. Do NOT change columns, headings, sheet name. | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | Recurring | Recurring | | | | |
| 15 | | | Recurring | Volume | Volume | | | | |
| 16 | | Cost | Expense Description | Sensitive | Insensitive | | | | |
| 17 | State | Element # | (Limited to 25 characters) | $ Amount | $ Amount | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | Maximum 10 entries per Cost Element # | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |

000097

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA | | | | | | |
| 2 | | | | | | | | |
| 3 | | Instructions: | | | | | | |
| 4 | | 1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations. | | | | | | |
| 5 | | 2. All amounts shown are per unit (e.g., per call, per loop, per MOU). | | | | | | |
| 6 | | 3. Input data, by Cost Element, leaving no blank lines. On next row | | | | | | |
| 7 | | after last line of data, type END in Cost Element Column. | | | | | | |
| 8 | | 4. All data on this form should be cell-referenced to study workpapers. | | | | | | |
| 9 | | 5. Do NOT change columns, headings, sheet name. | | | | | | |
| 10 | | 6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first | | | | | | |
| 11 | | and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost. | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | Nonrecurring | Nonrecurring | Nonrecurring | Nonrecurring |
| 14 | | | Nonrecurring | | First | Additional | Initial | Subsequent |
| 15 | | Cost | Expense Description | Nonrecurring | $ Amount | $ Amount | $ Amount | $ Amount |
| 16 | State | Element # | (Limited to 25 characters) | $ Amount | | | | |
| 17 | TN | A.2.20 | PANEL MATERIAL COSTS | $ 60.67 | | | | |
| 18 | | END | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | Maximum 10 entries per Cost Element # | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA** | | | | | | |
| 2 | | | | | | | | |
| 3 | | **Instructions:** | | | | | | |
| 4 | | **1. Use this worksheet to record recurring expensed labor times to be input into the** | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | **Work Time (Hours)** | | | |
| 14 | | **Cost** | **Labor Expense Description** | **JFC/** | **Volume** | **Volume** | | |
| 15 | **State** | **Element #** | **(Limited to 25 characters)** | **Payband** | **Sensitive** | **Insensitive** | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | | | | | | | | |
| 35 | | | | | | | | |
| 36 | | | | | | | | |
| 37 | | | Maximum 20 entries per Cost Element # | | | | | |
| 38 | | | | | | | | |

660099

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | Instructions: | | | | | | | | | | | | | | |
| 4 | 1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations. | | | | | | | | | | | | | | |
| 5 | 2. All amounts shown are per unit (e.g., per call, per loop, per MOU). | | | | | | | | | | | | | | |
| 6 | 3. Input data, by Cost Element, leaving no blank lines. On next row | | | | | | | | | | | | | | |
| 7 | after last line of data, type END in Cost Element Column. | | | | | | | | | | | | | | |
| 8 | 4. All data on this form should be cell-referenced to study workpapers. | | | | | | | | | | | | | | |
| 9 | 5. Do NOT change columns, headings, sheet name. | | | | | | | | | | | | | | |
| 10 | 6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first | | | | | | | | | | | | | | |
| 11 | and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost. | | | | | | | | | | | | | | |
| 12 | 7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line. | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | Study Mid-Point Date (Mos.) | | | 6/1/2001 | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | (For use w/ one NR) | | | | | | | | | |
| 18 | | | Cost | | | Installation | Disconnect | First Installation | First Disconnect | Additional Installation | Additional Disconnect | Initial Installation | Initial Disconnect | Subsequent Installation | Subsequent Disconnect |
| 19 | | Cost | Element | Labor Expense Description | JFC/ | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time |
| 20 | State | Element # | Life (Mo) | (Limited to 25 characters) | Payband | (Hours) | Hours | (Hours) | Hours | (Hours) | Hours | (Hours) | Hours | (Hours) | Hours |
| 21 | TN | A.2.19 | | SERVICE INQUIRY | SDWC | 1.0300 | | | | | | | | | |
| 22 | TN | A.2.19 | | SERVICE INQUIRY | 230X | 1.0000 | | | | | | | | | |
| 23 | TN | A.2.19 | | ENGINEERING | JG57 | 2.0000 | | | | | | | | | |
| 24 | TN | A.2.19 | | ENGINEERING | WS10 | 3.0000 | | | | | | | | | |
| 25 | TN | A.2.19 | | ENGINEERING | 4M1X | 0.3333 | | | | | | | | | |
| 26 | TN | A.2.19 | | CONNECT & TURN-UP TEST | 420X | 0.1250 | | | | | | | | | |
| 27 | TN | A.2.19 | | TRAVEL | JG57 | 0.5000 | | | | | | | | | |
| 28 | TN | A.2.19 | | TRAVEL | 420X | 0.5000 | | | | | | | | | |
| 29 | TN | A.2.20 | | CONNECT & TURN-UP TEST | 420X | 1.0000 | | | | | | | | | |
| 30 | | END | | | | | | | | | | | | | |
| 31 | | | | Maximum of 25 entries per Cost Element # | | | | | | | | | | | |

000100

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | PANEL MATERIAL COSTS | | | | | |
| 2 | STATE: | | TN | | | |
| 3 | COST ELEMENT #: | | A.2.20 | | | |
| 4 | STUDY PERIOD: | | 2000-2002 | | 2000-2002 | |
| 5 | | | | | Levelized | |
| 6 | | | 1999 | State | Inflation | Levelized |
| 7 | | | Material | Sales | Factor | Material |
| 8 | | Source | Price | Tax | Acct 12C | Price |
| 9 | | | | | | (*C*D*E) |
| 10 | Description | | | 1.0600 | 1.0822 | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | Interface Block 25pr | Supply Chain Management | | | | |
| 14 | PID 233 002 732 | | | | | |
| 15 | 50 Bridging Clips | Supply Chain Management | | | | |
| 16 | Screw WD HexHD 8 x 3/4 (2 needed for interface) | Supply Chain Management | | | | |
| 17 | Metal Backboard (400pr capacity; price/16) | Supply Chain Management | | | | |
| 18 | PID 233 002 740 | | | | | |
| 19 | Screw WD HexHD 8 x 1 (4 needed to install metal backboa | Supply Chain Management | | | | |
| 20 | Distributing Rings (need average of 5) | Supply Chain Management | | | | |
| 21 | PID 100 666 700 | | | | | |
| 22 | Screw WD HexHD 8 x 3/4 (10 needed to install rings) | Supply Chain Management | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | TOTAL | SUM(C13:C22) | $ 52.89 | | | $ 60.67 |

000101



PRIVATE/PROPRIETARY
No disclosure outside BellSouth except by written agreement

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | NONRECURRING COST STUDY INPUT - VERSION 2.0 | | | | —ASSUMES MANUAL SERVICE INQUIRY PROCESS— | | | |
| 2 | SUB-LOOP - SET-UP PER BUILDING EQUIPMENT ROOM - CLEC Feeder Facility Set-Up | | | | | | | |
| 3 | DISCONNECT LOCATION LIFE (MOS:) | N/A | | | | | | |
| 4 | | | | | | | | |
| 5 | STATE: | TN | | | | | | |
| 6 | COST ELEMENT #: | A.2.10 | | | | | | |
| 7 | | | | | | | | |
| 8 | STUDY PERIOD: | 2000-2002 | | | | | | |
| 9 | | | | | | | | |
| 10 | DESCRIPTION | WORK CENTERS / WORK ACTIVITIES | | | WORKTIMES SHOWN ARE IN HOURS | | | |
| 11 | | | SME | JFC | FIRST INSTALL | FIRST DISCONNECT | ADDTL INSTALL | ADDTL DISCONNECT |
| 12 | SERVICE INQUIRY | CRSG/Account Team receives firm order SI from CLEC and screens documents; CRSG/Account Team prepares/sends transmittals to OSPE for site set-up. Upon completion of job, CRSG informs CLEC site is ready for provisioning. | Interconn Svcs | SDWC | 1.0300 | | | |
| 13 | SERVICE INQUIRY | LCSC receives SI from CLEC and processes for billing | Interconn Svcs | 230X | 1.0000 | | | |
| 14 | ENGINEERING | OSPE receives SI from CRSG, verifies premise address in LFACS and validates existing cross connect location; (Engineer) | Network | JG57 | 2.0000 | | | |
| 15 | ENGINEERING | Determines new CLEC cable counts and assigns job number; sends SI back to CRSG (Clerical) | Network | WS10 | 3.0000 | | | |
| 16 | ENGINEERING | AFIC receives job from OSPE; posts records and assigns new cross connect panel to CLEC and expands existing terminal size. | Network | 4M1X | 0.3333 | | | |
| 17 | CONNECT & TURN-UP TEST | Outside Plant Construction (OSPC) - setup, mount backboard, and close up site | Network | 420X | 0.1250 | | | |
| 18 | TRAVEL | OSPE travels to site prior to engineering job (verifying location matched with CLEC cable) | Network | JG57 | 0.5000 | | | |
| 19 | TRAVEL | OSPC travels to site to set up job. | Network | 420X | 0.5000 | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | ASSUMPTIONS: | | | | | | | |
| 23 | 1) Assumes 100% visit to building equipment room | | | | | | | |
| 24 | 2) First install assumes first 25-pair block plus site set-up; additional install includes each additional 25-pair block | | | | | | | |
| 25 | 3) Disconnect first & additional work times are not applicable. | | | | | | | |
| 26 | | | | | | | | |

000102

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 27 | NONRECURRING COST STUDY INPUT - VERSION 2.0 | | | | —ASSUMES MANUAL SERVICE INQUIRY PROCESS— | | | |
| 28 | SUB-LOOP - PER BUILDING EQUIPMENT ROOM - Per 25 Pair Panel Set-Up | | | | | | | |
| 29 | DISCONNECT LOCATION LIFE (MOS.): | N/A | | | | | | |
| 30 | | | | | | | | |
| 31 | STATE: | TN | | | | | | |
| 32 | COST ELEMENT #: | A.2.20 | | | | | | |
| 33 | | | | | | | | |
| 34 | STUDY PERIOD: | 2000-2002 | | | | | | |
| 35 | | | | | WORKTIMES SHOWN ARE IN HOURS | | | |
| 36 | DESCRIPTION | WORK CENTERS / WORK ACTIVITIES | SME | IFC | FIRST INSTALL | FIRST DISCONNECT | ADDTL INSTALL | ADDTL DISCONNECT |
| 37 | CONNECT & TURN-UP TEST | Outside Plant Construction (OSPC) - mount one 25-pair interface block, install distributing rings, stencil with CLEC cable name and range, place 50 bridging clips. | Network | 420X | 1.0000 | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |
| 40 | ASSUMPTIONS: | | | | | | | |
| 41 | 1) Travel included in building equipment room set-up fee | | | | | | | |
| 42 | 2) Disconnect first & additional work times are not applicable. | | | | | | | |
| 43 | 3) CLEC will terminate its 25 pairs on interface block. | | | | | | | |

000103

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Tennessee | | | | | | | | | | |
| 2 | Index Sheet | | | | | | | | | | |
| 3 | Study Period: 2000-2002 | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | **Sheet Name:** | | **Description:** | | | | | | |
| 10 | | | Index | | Unbundled Network Terminating Wire | | | | | | |
| 11 | | | Investments | | CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA | | | | | | |
| 12 | | | Additives_Recurring | | CALCULATOR INPUT FORM - RECURRING EXPENSES DATA | | | | | | |
| 13 | | | Additives_Nonrecurring | | CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA | | | | | | |
| 14 | | | Recurring Labor | | CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA | | | | | | |
| 15 | | | Nonrecurring Labor | | CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES | | | | | | |
| 16 | | | WP100 | | UNTW - Access Terminal | | | | | | |
| 17 | | | WP200 | | Total Monthly Cost Per Access Line - NTW | | | | | | |
| 18 | | | WP300 | | Garden Terminal/Wiring Closet | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |

000104

| | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA** | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | **Instructions:** | | | | | | | | |
| 4 | | **1. Use this worksheet to record material and/or investments to be input into the** | | | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | **Volume** | **Volume** | | | | |
| 13 | | **Cost** | | **Sub** | **Sensitive** | **Insensitive** | | | | |
| 14 | **State** | **Element #** | **FRC** | **FRC** | **$ Amount** | **$ Amount** | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

000105

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - RECURRING EXPENSES DATA** | | | | | | |
| 2 | | | | | | | | |
| 3 | | **Instructions:** | | | | | | |
| 4 | | **1. Use this worksheet to record recurring non-labor expenses to be input into the** | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | **Recurring** | **Recurring** | | | |
| 14 | | | | **Volume** | **Volume** | | | |
| 15 | | | **Recurring** | **Sensitive** | **Insensitive** | | | |
| 16 | | **Cost** | **Expense Description** | **$ Amount** | **$ Amount** | | | |
| 17 | **State** | **Element #** | **(Limited to 25 characters)** | | | | | |
| 18 | TN | A.15.1 | Subscriber Line Testing | $ 0.2915 | | | | |
| 19 | TN | A.15.1 | Total Monthly Cost Per Access Line - NTW | $ 0.1301 | | | | |
| 20 | | END | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | Maximum 10 entries per Cost Element # | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |

**CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA**

**Instructions:**

1. **Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**
6. **Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cos**

| State | Cost Element # | Nonrecurring Expense Description (Limited to 25 characters) | Nonrecurring $ Amount | Nonrecurring First $ Amount | Nonrecurring Additional $ Amount | Nonrecurring Initial $ Amount | Nonrecurring Subsequent $ Amount |
|---|---|---|---|---|---|---|---|
| TN | A.15.1 | Garden Terminal/Wiring Closet | $ 23.9167 | | | | |
| | END | | | | | | |

Maximum 10 entries per Cost Element #

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | | **CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA** | | | | | | |
| 2 | | | | | | | | |
| 3 | | **Instructions:** | | | | | | |
| 4 | | **1. Use this worksheet to record recurring expensed labor times to be input into the** | | | | | | |
| 5 | | **Calculator calculations.** | | | | | | |
| 6 | | **2. All amounts shown are per unit (e.g., per call, per loop, per MOU).** | | | | | | |
| 7 | | **3. Input data, by Cost Element, leaving no blank lines. On next row** | | | | | | |
| 8 | | **after last line of data, type END in Cost Element Column.** | | | | | | |
| 9 | | **4. All data on this form should be cell-referenced to study workpapers.** | | | | | | |
| 10 | | **5. Do NOT change columns, headings, sheet name.** | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | **Work Time (Hours)** | | |
| 13 | | | | | | | | |
| 14 | | **Cost** | **Labor Expense Description** | **JFC/** | **Volume** | **Volume** | | |
| 15 | **State** | **Element #** | **(Limited to 25 characters)** | **Payband** | **Sensitive** | **Insensitive** | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | | | | | | | | |
| 35 | | | | | | | | |
| 36 | | | Maximum 20 entries per Cost Element # | | | | | |
| 37 | | | | | | | | |
| 38 | | | | | | | | |

000108

**CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES**

**Instructions:**

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Study midpoint date is set for Tennessee studies at 6/01.
8. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

**Study Mid-Point Date (Mos.)** 06/01/2001

| State | Cost Element # | Cost Element Life (Mo) | Labor Expense Description (Limited to 25 characters) | JFC/ Payband | (For use w/ one NR) Installation Time (Hours) | (For use w/ one NR) Disconnect Time Hours | First Installation Time (Hours) | First Disconnect Time Hours | Additional Installation Time (Hours) | Additional Disconnect Time Hours | Initial Installation Time (Hours) | Initial Disconnect Time Hours | Subsequent Installation Time (Hours) | Subsequent Disconnect Time Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TN | A.15.1 | | Access Terminal - SERVICE INQUIRY | SDWC | 0.0954 | | | | | | | | | |
| TN | A.15.1 | | Access Terminal - SERVICE INQUIRY | 230X | 0.0694 | | | | | | | | | |
| TN | A.15.1 | | Access Terminal - SITE SURVEY/SET-UP | JG59 | 0.3056 | | | | | | | | | |
| TN | A.15.1 | | Access Terminal - SITE SURVEY/SET-UP | 32XX | 0.0231 | | | | | | | | | |
| TN | A.15.1 | | Access Terminal - SITE SURVEY/SET-UP | 4M1X | 0.0309 | | | | | | | | | |
| TN | A.15.1 | | Access Terminal - CONNECT & TURN-UP TEST | 410X | 0.2630 | | | | | | | | | |
| TN | A.15.1 | | SERVICE ORDER | 230X | 0.0175 | | | | | | | | | |
| TN | A.15.1 | | ENGINEERING | 4M1X | 0.0233 | | | | | | | | | |
| TN | A.15.199 | 18 | SERVICE ORDER | 230X | - | 0.0175 | | | | | | | | |
| END | | | | | | | | | | | | | | |
| END | | | | | | | | | | | | | | |

Maximum of 25 entries per Cost Element

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | Tennessee | | | | | | | |
| 2 | UNTW - Access Terminal | | ASSUMES MANUAL SERVICE INQUIRY | | | | | |
| 3 | Study Period: 2000-2002 | | | | | | | |
| 4 | DISCONNECT LOCATION LIFE: | 0 | | | | | | |
| 5 | | | | | | | | |
| 6 | STATE: | TN | INSTALL | | | | | |
| 7 | COST ELEMENT #: | A.15.1 | DISCONNECT | | | | | |
| 8 | | A.15.199 | | | | | | |
| 9 | STUDY PERIOD: | 2000-2002 | | | | | | |
| 10 | | | | | | INSTALL | | |
| 11 | | | | | | Worktimes (Hrs.) | | |
| 12 | DESCRIPTION | WORK CENTERS / WORK ACTIVITIES | SME | JFC | Per Job | Per Pair =Column D *B10 | | |
| 13 | qe # of Lines CLECs use in Access Terminal = = > | 10.8 | | | | | | |
| 14 | | | | | | | | |
| 15 | Access Terminal - SERVICE INQUIRY | Account Team (AE) takes CLEC request for Access Terminal, records information on Service Inquiry (SI) form, passes SI to I&M for site visit; accepts completed SI from OSPE; sends SO to LCSC to schedule work; informs CLEC of completion of Access Terminal job | Interconnection | SDWC | 1 0300 | 0.0954 | | |
| 16 | | | Interconnection | 230X | 0 7500 | 0.0694 | | |
| 17 | Access Terminal - SERVICE INQUIRY | LCSC receives SI from CRSG; issues SO for equipment order and I&M placing work | Network | JG59 | 3 3000 | 0.3056 | | |
| 18 | Access Terminal - SITE SURVEY/SET-UP | I&M Spvsr. Contacts and meets CLEC for site visit; determines space availability, methods of interconnection, adds existing terminal and new terminal address, provides RSAG valid address, Sends SI to OSPE, issue routine job to technician to install Access Terminal, includes travel and service inquiry handling | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | Access Terminal - SITE SURVEY/SET-UP | OSPE receives SI from I&M, uses working number to obtain premises address from LFACS, creates new terminal address, validates existing terminal, provides other inventory info, sends SI to AFIG & CRSG for new terminal address | Network | 32XX | 0 2500 | 0.0231 | | |
| 22 | | | | | | | | |
| 23 | Access Terminal - SITE SURVEY/SET-UP | AFIG builds terminal address information in LFACS | Network | 4M1X | 0 3333 | 0.0309 | | |
| 24 | Access Terminal - CONNECT & TURN-UP TEST | I&M places Access Terminal, mounts cross-connect blocks, & terminates connector cable on common block; includes travel and | Network | 410X | 2 8400 | 0.2630 | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | ASSUMPTIONS: | | | | | | | |
| 28 | 1) Assumes of 5 pr NTW per living unit (LU) | | | | | | | |
| 29 | 2) Assumes 60% of Access Terminal locations are at Garden Terminals and 40% are in Wiring Closets | | | | | | | |
| 30 | 3) Average of Lines used in Access Terminal assumes 100pr unit/5prs per unit = 20 customer x 2 lines working | | | | | | | |
| 31 | of which 27% will be served by CLEC = 10.8 working lines on average for Access Terminal | | | | | | | |
| 32 | 4) I&M tags all pairs in Access Terminal to give CLEC ability to identify customers/pairs | | | | | | | |
| 33 | | | | | | | | |

000110

| | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 34 | NONRECURRING COST STUDY INPUT - VERSION 2.0 | | | | | | | |
| 35 | UNTW Pair Provisioning | | | | | | | |
| 36 | | | | | | | | |
| 37 | DISCONNECT LOCATION LIFE: | 18 | | | | | | |
| 38 | | | | | | | | |
| 39 | STATE: | TN | | | | | | |
| 40 | COST ELEMENT #: | A.15.1 | | | | | | |
| 41 | | A.15.199 | INSTALL | | | | | |
| 42 | STUDY PERIOD: | 2000-2002 | DISCONNECT | | | | | |
| 43 | | | | | | | | |
| 44 | | | | | | | | |
| 45 | DESCRIPTION | WORK CENTERS / WORK ACTIVITIES | | | | | | |
| 46 | | | | | | | WORKTIMES SHOWN ARE IN HOURS | |
| 47 | SERVICE ORDER | LCSC validates CLEC LSR data electronically loaded into system, formats & issues service order. | SME | JFC | FIRST INSTALL | FIRST DISCONNECT | ADDTL INSTALL | ADDTL DISCONNECT |
| 48 | ENGINEERING | AFIG provides manual assistance for fallout orders. | Interconn Svcs | 250X | 0.0175 | 0.0175 | | |
| 49 | | | Network | 4M1X | 0.0233 | 0.0000 | | |
| 50 | | | | | | | | |
| 51 | ASSUMPTIONS: | | | | | | | |
| 52 | 1) AFIG provides manual assistance for non-flow through orders (20% total fallout) | | | | | | | |
| 53 | 2) UNTW Pair provisioning is ordered via an electronic interface. | | | | | | | |
| 54 | 3) Service Order time includes 7% fallout rate in compliance with TPUC | | | | | | | |
| 55 | | | | | | | | |
| 56 | | | | | | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | **Tennessee** | | | | |
| 2 | **Total Monthly Cost Per Access Line - NTW** | | | | |
| 3 | Study Period: 2000-2002 | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | **Description** | **Source** | **YE98** | **YE97** | **YE96** |
| 8 | Number of Access Lines (Tennessee) | | | | |
| 9 | Residence | CRIS Report EOY98 | 1,898,509 | | |
| 10 | Business/Other | CRIS Report EOY98 | 732,400 | | |
| 11 | Total Access Lines | =SUM(C9:C10) | 2,630,909 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | NTW Annual Expenses (Tennessee) Acct. 6362.9900 - | Cost Matters - MR | $4,053,121 | $4,006,644 | $3,473,437 |
| 15 | NTW Annual Expenses (Tennessee) Acct. 6362.9900 - | Cost Matters - MR | $5,392,430 | $5,104,083 | $4,659,594 |
| 16 | NTW Annual Expenses (Tennessee) Acct. 6362.9900 - | Cost Matters - MR | $ 140,977 | $ 278,163 | $ 141,938 |
| 17 | | | | | |
| 18 | Average NTW Annual Expenses - M | Cost Matters - MR | $3,844,401 | | |
| 19 | Average NTW Annual Expenses - E | Cost Matters - MR | $5,052,036 | | |
| 20 | Average NTW Annual Expenses - Y | Cost Matters - MR | $ 187,026 | | |
| 21 | | | | | |
| 22 | NTW Annual Amount Per Access Line - M | =C18/SC$11 | $ 1.46 | | |
| 23 | NTW Annual Amount Per Access Line - E | =C19/SC$11 | $ 1.92 | | |
| 24 | NTW Annual Amount Per Access Line - Y | =C20/SC$11 | $ 0.07 | | |
| 25 | | | | | |
| 26 | Life of Network Terminating Wire (Surr.Acct 2426) - | Cost Matters | 240 | | |
| 27 | | | | | |
| 28 | NTW Monthly Cost Per Access Line - M | =C22/12 | $ 0.1218 | | |
| 29 | NTW Monthly Cost Per Access Line - E | =C23/C26 | $ 0.0080 | | |
| 30 | NTW Monthly Cost Per Access Line - Y | =C24/C26 | $ 0.0003 | | |
| 31 | **Total Monthly Cost Per Access Line - NTW** | **=SUM(C28:C30)** | **$ 0.1301** | | |

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | **Tennessee** | | | | |
| 2 | **Garden Terminal/Wiring Closet** | **TN** | | | |
| 3 | **Study Period: 2000-2002** | **Cost Element #:** | **A.15.1** | | |
| 4 | | **Level:** | **2000-2002** | | |
| 5 | | | | | |
| 6 | | | | | 00-02 |
| 7 | | | | | Levelized |
| 8 | | | | State | Inflation |
| 9 | Description | Source | Amount | Sales | Factor |
| 10 | | | | Tax | Acct 45C |
| 11 | Tennessee Factors | Cost Matters | | | |
| 12 | | | | 1.0600 | 1.0578 |
| 13 | | | | | |
| 14 | % Facilities New | Network | 67% | | |
| 15 | % Facilities Retrofit | Network | 33% | | |
| 16 | % Facilities Within 6ft. | Network | 70% | | |
| 17 | % Facilities Withing 15ft. | Network | 30% | | |
| 18 | % Garden Terminal Facilities | Network | 60% | | |
| 19 | % Wiring Closet Facilities | Network | 40% | | |
| 20 | | | | | |
| 21 | **Garden Terminal (GT)** | | | | |
| 22 | 100pr. Terminal - Retrofit - 15 ft Shielded w/ stub | Network | $374.7300 | | |
| 23 | 100pr. Terminal - Retrofit - 6 ft Non-Shielded w/ stu | Network | $333.1167 | | |
| 24 | Weighted Retrofit | = (C22*C17) + (C23*C16) | $345.6007 | | |
| 25 | | | | | |
| 26 | 100 pr. Terminal - New Install - 15 ft Shielded no sti | Network | $315.0150 | | |
| 27 | 100 pr. Terminal - New Install - 6 ft Non-Shielded no | Network | $304.1450 | | |
| 28 | Weighted New Install | = (C26*C17) + (C27*C16) | $307.4060 | | |
| 29 | | | | | |
| 30 | Garden Terminal Material = = > | = (C24*C15) + (C28*C14) | $332.9011 | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | **Wiring Closet (WC)** | | | | |
| 34 | Cross-connect panel, (RJ21X, 4 25 pr, | Supply Chain Management | [redacted] | | |
| 35 | [redacted] | | | | |
| 36 | Connector Cable, (15 ft., 4 25 pr, | Supply Chain Management | [redacted] | | |
| 37 | [redacted] | | | | |
| 38 | | | | | |
| 39 | Wiring Closet Material = = > | = C34 + C36 | $76.5600 | | |
| 40 | | | | | |
| 41 | | | | | |
| 42 | **Weighted Equipment WC/GT** | = ((C30*C18) + (C39*C19))*D11*E11 | | | $ 258.3005 |
| 43 | | | | | |
| 44 | Average # of Lines CLECs use in Access Terminal ==> | = 'NRC Inputs'!B13 | 10.8 | | |
| 45 | | | | | |
| 46 | **Per Pair Cost of GT/WC Material** | **= E42/C44** | | | **$ 23.9167** |

**000113**



PRIVATE/PROPRIETARY
No disclosure outside BellSouth except by written agreement.

| | A | B | C | D |
|---|---|---|---|---|
| 1 | Tennessee | | | |
| 2 | Index Sheet | | | |
| 3 | Study Period: 2000 - 2002 | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | **Sheet Name:** | | **Description:** |
| 10 | | Index | | LINE SHARING SPLITTER - in the Central Office and in the Remote Terminal |
| 11 | | Investments | | CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA |
| 12 | | Additives_Recurring | | CALCULATOR INPUT FORM - RECURRING EXPENSES DATA |
| 13 | | Nonrecurring Labor | | CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES |
| 14 | | INPUT_ NRC | | Inputs for Nonrecurring Costs |
| 15 | | INPUT_ Recur | | Inputs for Recurring Costs |
| 16 | | wp J.4.1 | | Development of Line Sharing Costs per BST Splitter System 96 Line Capacity |
| 17 | | wp J.4.2 | | Development of Line Sharing Costs per BST Splitter System 24 Line Capacity |
| 18 | | wp J.4.3 | | Development of Line Sharing Costs per Line Activation in the Central Office |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

000114

**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**

**Instructions:**

1. **Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

| State | Cost Element # | FRC | Sub FRC | Volume Sensitive $ Amount | Volume Insensitive $ Amount |
|---|---|---|---|---|---|
| TN | J.4.1 | 377C | 05 | $447.975 | |
| TN | J.4.1 | 257C | 03 | $187.500 | |
| TN | J.4.1 | 257C | 15 | $4,859.000 | |
| TN | J.4.2 | 377C | 05 | $111.994 | |
| TN | J.4.2 | 257C | 03 | $46.875 | |
| TN | J.4.2 | 257C | 15 | $1,214.750 | |
| TN | J.4.3 | 460C | 00 | $186.624 | |
| | END | | | | |

000115

**CALCULATOR INPUT FORM - RECURRING EXPENSES DATA**

**Instructions:**

1. **Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

| State | Cost Element # | Recurring Expense Description (Limited to 25 characters) | Recurring Volume Sensitive $ Amount | Recurring Volume Insensitive $ Amount |
|---|---|---|---|---|
| TN | J.4.3 | Telcordia Solution Software | $2.874 | |
| | END | Maximum 10 entries per Cost Element # | | |

000116

## CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

**Instructions:**

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

| State | Cost Element # | Nonrecurring Expense Description (Limited to 25 characters) | Nonrecurring $ Amount | Nonrecurring First $ Amount | Nonrecurring Additional $ Amount | Nonrecurring Initial $ Amount | Nonrecurring Subsequent $ Amount |
|---|---|---|---|---|---|---|---|
| TN | END | Maximum 10 entries per Cost Element # | | | | | |

000127

## CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

**Instructions:**

1. **Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

| State | Cost Element # | Labor Expense Description (Limited to 25 characters) | JFC/ Payband | Work Time (Hours) Volume Sensitive | Work Time (Hours) Volume Insensitive |
|---|---|---|---|---|---|
| TN | | | | | |
| | END | Maximum 20 entries per Cost Element # | | | |

**CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES**

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

| State | Cost Element # | Cost Element Life (Mo) | Labor Expense Description (Limited to 25 characters) | JFC/ Payband | (For use w/ one NR) Installation Time (Hours) | (For use w/ one NR) Disconnect Time (Hours) | First Installation Time (Hours) | First Disconnect Time (Hours) | Additional Installation Time (Hours) | Additional Disconnect Time (Hours) | Initial Installation Time (Hours) | Initial Disconnect Time (Hours) | Subsequent Installation Time (Hours) | Subsequent Disconnect Time (Hours) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TN | J.4.1 | 0 | Local Carrier Service Center | 230X | | | 0.5000 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.1 | 0 | COSMOS / SWITCH | 2730 | | | 4.0000 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.1 | 0 | Circuit Capacity Management | 34XX | | | 3.0000 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.1 | 0 | Complex Resale Support Group | 221X | | | 0.7400 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.1 | 0 | Complex Resale Support Group | SDWC | | | 0.6700 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.199 | 47 | Local Carrier Service Center | 230X | | | 0.0000 | 0.5000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.199 | 47 | COSMOS / SWITCH | 2730 | | | 0.0000 | 2.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.199 | 47 | Circuit Capacity Management | 34XX | | | 0.0000 | 3.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.199 | 47 | Complex Resale Support Group | 221X | | | 0.0000 | 0.7400 | 0.0000 | 0.0000 | | | | |
| TN | J.4.199 | 47 | Complex Resale Support Group | SDWC | | | 0.0000 | 0.6700 | 0.0000 | 0.0000 | | | | |
| TN | J.4.2 | 0 | Local Carrier Service Center | 230X | | | 0.5000 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.2 | 0 | COSMOS / SWITCH | 2730 | | | 4.0000 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.2 | 0 | Circuit Capacity Management | 34XX | | | 3.0000 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.2 | 0 | Complex Resale Support Group | 221X | | | 0.7400 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.2 | 0 | Complex Resale Support Group | SDWC | | | 0.6700 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.299 | 47 | Local Carrier Service Center | 230X | | | 0.0000 | 0.5000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.299 | 47 | COSMOS / SWITCH | 2730 | | | 0.0000 | 2.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.299 | 47 | Circuit Capacity Management | 34XX | | | 0.0000 | 3.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.299 | 47 | Complex Resale Support Group | 221X | | | 0.0000 | 0.7400 | 0.0000 | 0.0000 | | | | |
| TN | J.4.299 | 47 | Complex Resale Support Group | SDWC | | | 0.0000 | 0.6700 | 0.0000 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Local Carrier Service Center | 230X | | | 0.4500 | 0.0000 | 0.0450 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Circuit Capacity Management | 34XX | | | 0.0833 | 0.0000 | 0.0208 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Assignment Facility Inventory Group | 4M1X | | | 0.0467 | 0.0000 | 0.0467 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Work Management Center | 4WXX | | | 0.0500 | 0.0000 | 0.0500 | 0.0000 | | | | |
| TN | J.4.3 | 0 | CO Install & Mtce Field - Ckt & Fac | 431X | | | 0.4167 | 0.0000 | 0.1667 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Circuit Capacity Management | 34XX | | | 0.0250 | 0.0000 | 0.0250 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Assignment Facility Inventory Group | 4M1X | | | 0.0047 | 0.0000 | 0.0047 | 0.0000 | | | | |
| TN | J.4.3 | 0 | CO Install & Mtce Field - Ckt & Fac | 431X | | | 0.0550 | 0.0000 | 0.0750 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Installation & Maintenance | 410X | | | 0.1000 | 0.0000 | 0.1000 | 0.0000 | | | | |
| TN | J.4.3 | 0 | Installation & Maintenance | 410X | | | 0.0500 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.399 | 47 | Local Carrier Service Center | 230X | | | 0.0000 | 0.4500 | 0.0000 | 0.0450 | | | | |
| TN | J.4.399 | 47 | Circuit Capacity Management | 34XX | | | 0.0000 | 0.0833 | 0.0000 | 0.0208 | | | | |
| TN | J.4.399 | 47 | Assignment Facility Inventory Group | 4M1X | | | 0.0000 | 0.0467 | 0.0000 | 0.0467 | | | | |
| TN | J.4.399 | 47 | Work Management Center | 4WXX | | | 0.0000 | 0.0500 | 0.0000 | 0.0500 | | | | |
| TN | J.4.399 | 47 | CO Install & Mtce Field - Ckt & Fac | 431X | | | 0.0000 | 0.2000 | 0.0000 | 0.0833 | | | | |
| TN | J.4.4 | 47 | Assignment Facility Inventory Group | 4M1X | | | 0.0467 | 0.0000 | 0.0467 | 0.0000 | | | | |
| TN | J.4.4 | 47 | Work Management Center | 4WXX | | | 0.1000 | 0.0000 | 0.1000 | 0.0000 | | | | |
| TN | J.4.4 | 47 | CO Install & Mtce Field - Ckt & Fac | 431X | | | 0.6167 | 0.0000 | 0.2500 | 0.0000 | | | | |
| TN | J.4.4 | 47 | Complex Resale Support Group | 221X | | | 0.0308 | 0.0000 | 0.0000 | 0.0000 | | | | |
| TN | J.4.4 | 47 | Complex Resale Support Group | SDWC | | | 0.0279 | 0.0000 | 0.0000 | 0.0000 | | | | |
| | END | | Maximum of 25 entries per Cost Element # | | | | | | | | | | | |

000119

Tennessee
Inputs for Nonrecurring Costs
Study Period: 2000 - 2002
TN

| Element | Item / Description | JFC / JG / WS | Source | Cost Element Life (mos.) | (For use w/ one NR) Install | (For use w/ one NR) Disconnect | Time in Hours (Hrs) First Install | First Disconnect | Additional Install | Additional Disconnect | Nonrecurring Additive |
|---|---|---|---|---|---|---|---|---|---|---|---|
| J.4 | **LINE SHARING - In the Central Office** | | | | | | | | | | |
| J.4.1 | **Line Sharing - per BST Splitter System 96 Line Capacity in the Central Office** | | | 0 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | 0.5000 | 0.0000 | 0.0000 | 0.0000 | |
| | Network Provisioning | 2730 | COSMOS / SWITCH | | | | 4.0000 | 0.0000 | 0.0000 | 0.0000 | |
| | Engineering | 34XX | Circuit Capacity Management | | | | 3.0000 | 0.0000 | 0.0000 | 0.0000 | |
| | Engineering | 221X | Complex Resale Support Group | | | | 0.7400 | 0.0000 | 0.0000 | 0.0000 | |
| | Engineering | SDWC | Complex Resale Support Group | | | | 0.6700 | 0.0000 | 0.0000 | 0.0000 | |
| J.4.199 | **Line Sharing - per BST Splitter System 96 Line Capacity in the Central Office - Disconnect** | | | 47 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | 0.0000 | 0.5000 | 0.0000 | 0.0000 | |
| | Network Provisioning | 2730 | COSMOS / SWITCH | | | | 0.0000 | 2.0000 | 0.0000 | 0.0000 | |
| | Engineering | 34XX | Circuit Capacity Management | | | | 0.0000 | 3.0000 | 0.0000 | 0.0000 | |
| | Engineering | 221X | Complex Resale Support Group | | | | 0.0000 | 0.7400 | 0.0000 | 0.0000 | |
| | Engineering | SDWC | Complex Resale Support Group | | | | 0.0000 | 0.6700 | 0.0000 | 0.0000 | |
| J.4.2 | **Line Sharing - per BST Splitter System 24 Line Capacity in the Central Office** | | | 0 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | 0.5000 | 0.0000 | 0.0000 | 0.0000 | |
| | Network Provisioning | 2730 | COSMOS / SWITCH | | | | 4.0000 | 0.0000 | 0.0000 | 0.0000 | |
| | Engineering | 34XX | Circuit Capacity Management | | | | 3.0000 | 0.0000 | 0.0000 | 0.0000 | |
| | Engineering | 221X | Complex Resale Support Group | | | | 0.7400 | 0.0000 | 0.0000 | 0.0000 | |
| | Engineering | SDWC | Complex Resale Support Group | | | | 0.6700 | 0.0000 | 0.0000 | 0.0000 | |
| J.4.299 | **Line Sharing - per BST Splitter System 24 Line Capacity in the Central Office - Disconnect** | | | 47 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | 0.0000 | 0.5000 | 0.0000 | 0.0000 | |
| | Network Provisioning | 2730 | COSMOS / SWITCH | | | | 0.0000 | 2.0000 | 0.0000 | 0.0000 | |
| | Engineering | 34XX | Circuit Capacity Management | | | | 0.0000 | 3.0000 | 0.0000 | 0.0000 | |
| | Engineering | 221X | Complex Resale Support Group | | | | 0.0000 | 0.7400 | 0.0000 | 0.0000 | |
| | Engineering | SDWC | Complex Resale Support Group | | | | 0.0000 | 0.6700 | 0.0000 | 0.0000 | |
| J.4.3 | **Line Sharing - per Line Activation (LSR) in the Central Office** | | | 0 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | | | | | |
| | Engineering | 34XX | Circuit Capacity Management | | | | 0.4500 | 0.0000 | 0.0450 | 0.0000 | |
| | Engineering (6 min x 35% fallout) | 4M1X | Assignment Facility Inventory Group | | | | 0.0833 | 0.0000 | 0.0208 | 0.0000 | |
| | Connect & Test | 4WXX | Work Management Center | | | | 0.0467 | 0.0000 | 0.0467 | 0.0000 | |
| | Connect & Test | 431X | CO Install & Mtce Field - Ckt & Fac | | | | 0.0500 | 0.0000 | 0.0500 | 0.0000 | |
| | LST - Engineering (15 min x 10%) | 34XX | Circuit Capacity Management | | | | 0.4167 | 0.0000 | 0.1667 | 0.0000 | |
| | LST - Eng (6 min x 35% fallout x 10%) | 4M1X | Assignment Facility Inventory Group | | | | 0.0250 | 0.0000 | 0.0250 | 0.0000 | |
| | LST - Connect & Test (8 min x 10%) | 431X | CO Install & Mtce Field - Ckt & Fac | | | | 0.0047 | 0.0000 | 0.0047 | 0.0000 | |
| | LST - Connect & Test (60 min x 10%) | 410X | Installation & Maintenance | | | | 0.0550 | 0.0000 | 0.0750 | 0.0000 | |
| | LST - Travel (30 min x 10%) | 410X | Installation & Maintenance | | | | 0.1000 | 0.0000 | 0.1000 | 0.0000 | |
| | | | | | | | 0.0500 | 0.0000 | 0.0000 | 0.0000 | |
| J.4.399 | **Line Sharing - per Line Activation (LSR) in the Central Office - Disconnect** | | | 47 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | | | | | |
| | Engineering | 34XX | Circuit Capacity Management | | | | 0.0000 | 0.4500 | 0.0000 | 0.0450 | |
| | Engineering (6 min x 35% fallout) | 4M1X | Assignment Facility Inventory Group | | | | 0.0000 | 0.0833 | 0.0000 | 0.0208 | |
| | Connect & Test | 4WXX | Work Management Center | | | | 0.0000 | 0.0467 | 0.0000 | 0.0467 | |
| | Connect & Test | 431X | CO Install & Mtce Field - Ckt & Fac | | | | 0.0000 | 0.0500 | 0.0000 | 0.0500 | |
| | | | | | | | 0.0000 | 0.2000 | 0.0000 | 0.0833 | |
| J.4.4 | **Line Sharing - per Subsequent Activity (LSR) per Line Rearrangement in the Central Office** | | | 47 | | | | | | | |
| | Service Order | 230X | Local Carrier Service Center | | | | | | | | |
| | Engineering (6 min x 35% fallout) | 4M1X | Assignment Facility Inventory Group | | | | 0.4500 | 0.0000 | 0.0450 | 0.0000 | |
| | Connect & Test | 4WXX | Work Management Center | | | | 0.0467 | 0.0000 | 0.0467 | 0.0000 | |
| | Connect & Test | 431X | CO Install & Mtce Field - Ckt & Fac | | | | 0.1000 | 0.0000 | 0.1000 | 0.0000 | |
| | Engineering | 221X | Complex Resale Support Group | | | | 0.6167 | 0.0000 | 0.2500 | 0.0000 | |
| | Engineering | SDWC | Complex Resale Support Group | | | | 0.0308 | 0.0000 | 0.0000 | 0.0000 | |
| | | | | | | | 0.0279 | 0.0000 | 0.0000 | 0.0000 | |

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | Tennessee | | | | | |
| 2 | Inputs for Recurring Costs | | | | | |
| 3 | Study Period: 2000 - 2002 | | | | | |
| 4 | TN | | | | | |
| 5 | | | | | | |
| 6 | | Item / Description | | | | |
| 7 | Element | Description | FRC | Sub FRC | Source | Amount |
| 8 | | | | | | |
| 9 | J.4 | **LINE SHARING - in the Central Office** | | | | |
| 10 | | | | | | |
| 11 | J.4.1 | **Line Sharing - per BST Splitter System 96 Line Capacity in the Central Office** | | | | |
| 12 | | **Distributing Frame** | | | | |
| 13 | | Material Price | 377C | 05 | Network Planning & Support | [redacted] |
| 14 | | Projected Actual Utilization | | | Network Planning & Support | |
| 15 | | Circuit Capacity | | | Network Planning & Support | 7,200 |
| 16 | | Number Required (3 terms on MDF / Line) | | | Network Planning & Support | 300 |
| 17 | | **Connecting Blocks** | | | | |
| 18 | | Material Price | 377C | 05 | Network Planning & Support | $60.00 |
| 19 | | Projected Actual Utilization | | | Network Planning & Support | 100.00% |
| 20 | | System Capacity | | | Network Planning & Support | 1 |
| 21 | | Number Required | | | Network Planning & Support | 4 |
| 22 | | **Line Sharing Splitter (Bay)** | 257C | 03 | | |
| 23 | | Material Price | | | Network Planning & Support | $1,050.00 |
| 24 | | Projected Actual Utilization | | | Network Planning & Support | 70.00% |
| 25 | | System Capacity | | | Network Planning & Support | 8 |
| 26 | | Number Required | | | Network Planning & Support | 1 |
| 27 | | **Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins & Cabling )** | | | | |
| 28 | | Material Price per System | 257C | 15 | Network Planning & Support | $4,859.00 |
| 29 | | Projected Actual Utilization | | | Network Planning & Support | 100.00% |
| 30 | | System Capacity | | | Network Planning & Support | 1 |
| 31 | | Number Required | | | Network Planning & Support | 1 |
| 32 | | | | | | |
| 33 | J.4.2 | **Line Sharing - per BST Splitter System 24 Line Capacity in the Central Office** | | | | |
| 34 | | **Distributing Frame** | | | | |
| 35 | | Material Price | 377C | 05 | Network Planning & Support | [redacted] |
| 36 | | Projected Actual Utilization | | | Network Planning & Support | |
| 37 | | Circuit Capacity | | | Network Planning & Support | 7,200 |
| 38 | | Number Required (3 terms on MDF / Line) | | | Network Planning & Support | 75 |
| 39 | | **Connecting Blocks** | | | | |
| 40 | | Material Price | 377C | 05 | Network Planning & Support | $60.00 |
| 41 | | Projected Actual Utilization | | | Network Planning & Support | 100.00% |
| 42 | | System Capacity | | | Network Planning & Support | 1 |
| 43 | | Number Required | | | Network Planning & Support | 1 |
| 44 | | **Line Sharing Splitter (Bay)** | | | | |
| 45 | | Material Price | 257C | 03 | Network Planning & Support | $1,050.00 |
| 46 | | Projected Actual Utilization | | | Network Planning & Support | 70.00% |
| 47 | | System Capacity | | | Network Planning & Support | 32 |
| 48 | | Number Required | | | Network Planning & Support | 1 |
| 49 | | **Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins & Cabling )** | | | | |
| 50 | | Material Price per System | 257C | 15 | Network Planning & Support | $4,859.00 |
| 51 | | Projected Actual Utilization | | | Network Planning & Support | 100.00% |
| 52 | | System Capacity | | | Network Planning & Support | 4 |
| 53 | | Number Required | | | Network Planning & Support | 1 |
| 54 | | | | | | |
| 55 | J.4.3 | **Line Sharing - per Line Activation (LSR) in the Central Office** | | | | |
| 56 | | **Telcordia Solution Software** | | | | |
| 57 | | Software Implementation Monthly Expense | | | Network Planning & Support | [redacted] |
| 58 | | Adjustment Factor | | | BST Finance | |
| 59 | | Software Implementation Monthly Expense | | | BST Finance | $585,224.55 |
| 60 | | **Software Price** | 460C | 00 | Network Planning & Support | [redacted] |
| 61 | | Adjustment Factor | | | BST Finance | |
| 62 | | Software Price | | | BST Finance | $38,000,000 |
| 63 | | In-Service Mid-Year Demand Year 1 | | | Network Planning & Support | 8,965 |
| 64 | | In-Service Mid-Year Demand Year 2 | | | Network Planning & Support | 66,831 |
| 65 | | In-Service Mid-Year Demand Year 3 | | | Network Planning & Support | 183,292 |
| 66 | | In-Service Mid-Year Demand Year 4 | | | Network Planning & Support | 318,377 |
| 67 | | In-Service Mid-Year Demand Year 5 | | | Network Planning & Support | 440,625 |
| 68 | | Economic Life of Software (years) | | | BST Finance | 5 |
| 69 | | | | | | |



PRIVATE/PROPRIETARY
No disclosure outside BellSouth except by written agreement.

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Tennessee | | | | |
| 2 | Development of Line Sharing Costs per BST Splitter System 96 Line Capacity | | | | |
| 3 | Study Period: 2000 - 2002 | | | | |
| 4 | | | | | |
| 5 | Element #: J.4.1 | | | | |
| 6 | Item / Description | | | | |
| 7 | Description | FRC | Sub FRC | Source | Amount |
| 8 | **Distributing Frame** | | | | |
| 9 | | | | | |
| 10 | Material Price | | | INPUT_ Recur Line 13 | [redacted] |
| 11 | | | | | |
| 12 | Projected Actual Utilization | | | INPUT_ Recur Line 14 | [redacted] |
| 13 | | | | | |
| 14 | Circuit Capacity | | | INPUT_ Recur Line 15 | 7,200 |
| 15 | | | | | |
| 16 | Number Required (3 terms on MDF / Line) | | | INPUT_ Recur Line 16 | 300 |
| 17 | | | | | |
| 18 | Utilized Material Price per System | 377C | 05 | Line 10 / Line 12 / Line 14 x Line 16 | $207.975 |
| 19 | | | | | |
| 20 | **Connecting Blocks** | | | | |
| 21 | | | | | |
| 22 | Material Price | | | INPUT_ Recur Line 18 | $60.00 |
| 23 | | | | | |
| 24 | Projected Actual Utilization | | | INPUT_ Recur Line 19 | 100.00% |
| 25 | | | | | |
| 26 | System Capacity | | | INPUT_ Recur Line 20 | 1 |
| 27 | | | | | |
| 28 | Number Required | | | INPUT_ Recur Line 21 | 4 |
| 29 | | | | | |
| 30 | Utilized Material Price per System | 377C | 05 | Line 22 / Line 24 / Line 26 x Line 28 | $240.000 |
| 31 | | | | | |
| 32 | Utilized Material Price per System | 377C | 05 | Line 18 + Line 30 | $447.975 |
| 33 | | | | | |
| 34 | **Line Sharing Splitter (Bay)** | | | | |
| 35 | | | | | |
| 36 | Material Price | | | INPUT_ Recur Line 23 | $1,050.00 |
| 37 | | | | | |
| 38 | Projected Actual Utilization | | | INPUT_ Recur Line 24 | 70.00% |
| 39 | | | | | |
| 40 | System Capacity | | | INPUT_ Recur Line 25 | 8 |
| 41 | | | | | |
| 42 | Number Required | | | INPUT_ Recur Line 26 | 1 |
| 43 | | | | | |
| 44 | Utilized Material Price per System | 257C | 03 | Line 36 / Line 38 / Line 40 x Line 42 | $187.500 |
| 45 | | | | | |
| 46 | **Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins & Cabling )** | | | | |
| 47 | | | | | |
| 48 | Material Price per System | | | INPUT_ Recur Line 28 | $4,859.00 |
| 49 | | | | | |
| 50 | Projected Actual Utilization | | | INPUT_ Recur Line 29 | 100.00% |
| 51 | | | | | |
| 52 | System Capacity | | | INPUT_ Recur Line 30 | 1 |
| 53 | | | | | |
| 54 | Number Required | | | INPUT_ Recur Line 31 | 1 |
| 55 | | | | | |
| 56 | Utilized Material Price per System | 257C | 15 | Line 48 / Line 50 / Line 52 x Line 54 | $4,859.000 |
| 57 | | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 60 | | | | | |



PRIVATE/PROPRIETARY
No disclosure outside BellSouth except by written agreement.

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Tennessee | | | | |
| 2 | Development of Line Sharing Costs per BST Splitter System 24 Line Capacity | | | | |
| 3 | Study Period: 2000 - 2002 | | | | |
| 4 | | | | | |
| 5 | Element #: J.4.2 | | | | |
| 6 | Item / Description | | | | |
| 7 | Description | FRC | Sub FRC | Source | Amount |
| 8 | **Distributing Frame** | | | | |
| 9 | | | | | |
| 10 | Material Price | | | INPUT_ Recur Line 35 | [redacted] |
| 11 | | | | | |
| 12 | Projected Actual Utilization | | | INPUT_ Recur Line 36 | [redacted] |
| 13 | | | | | |
| 14 | Circuit Capacity | | | INPUT_ Recur Line 37 | 7,200 |
| 15 | | | | | |
| 16 | Number Required (3 terms on MDF / Line) | | | INPUT_ Recur Line 38 | 75 |
| 17 | | | | | |
| 18 | Utilized Material Price per System | 377C | 05 | Line 10 / Line 12 / Line 14 x Line 16 | $51.994 |
| 19 | | | | | |
| 20 | **Connecting Blocks** | | | | |
| 21 | | | | | |
| 22 | Material Price | | | INPUT_ Recur Line 40 | $60.00 |
| 23 | | | | | |
| 24 | Projected Actual Utilization | | | INPUT_ Recur Line 41 | 100.00% |
| 25 | | | | | |
| 26 | System Capacity | | | INPUT_ Recur Line 42 | 1 |
| 27 | | | | | |
| 28 | Number Required | | | INPUT_ Recur Line 43 | 1.00 |
| 29 | | | | | |
| 30 | Utilized Material Price per System | 377C | 05 | Line 22 / Line 24 / Line 26 x Line 28 | $60.000 |
| 31 | | | | | |
| 32 | Utilized Material Price per System | 377C | 05 | Line 18 + Line 30 | $111.994 |
| 33 | | | | | |
| 34 | **Line Sharing Splitter (Bay)** | | | | |
| 35 | | | | | |
| 36 | Material Price | | | INPUT_ Recur Line 45 | $1,050.00 |
| 37 | | | | | |
| 38 | Projected Actual Utilization | | | INPUT_ Recur Line 46 | 70.00% |
| 39 | | | | | |
| 40 | System Capacity | | | INPUT_ Recur Line 47 | 32 |
| 41 | | | | | |
| 42 | Number Required | | | INPUT_ Recur Line 48 | 1 |
| 43 | | | | | |
| 44 | Utilized Material Price per System | 257C | 03 | Line 36 / Line 38 / Line 40 x Line 42 | $46.875 |
| 45 | | | | | |
| 46 | **Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins & Cabling )** | | | | |
| 47 | | | | | |
| 48 | Material Price per System | | | INPUT_ Recur Line 50 | $4,859.00 |
| 49 | | | | | |
| 50 | Projected Actual Utilization | | | INPUT_ Recur Line 51 | 100.00% |
| 51 | | | | | |
| 52 | System Capacity | | | INPUT_ Recur Line 52 | 4 |
| 53 | | | | | |
| 54 | Number Required | | | INPUT_ Recur Line 53 | 1 |
| 55 | | | | | |
| 56 | Utilized Material Price per System | 257C | 15 | Line 48 / Line 50 / Line 52 x Line 54 | $1,214.750 |
| 57 | | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 60 | | | | | |



PRIVATE/PROPRIETARY
No disclosure outside BellSouth except by written agreement.

| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Tennessee | | | | |
| 2 | Development of Line Sharing Costs per Line Activation in the Central Office | | | | |
| 3 | Study Period: 2000 - 2002 | | | | |
| 4 | | | | | |
| 5 | Element #: J.4.3 | | | | |
| 6 | Item / Description | | | | |
| 7 | Description | FRC | Sub FRC | Source | Amount |
| 8 | **Telcordia Solution Software** | | | | |
| 9 | | | | | |
| 10 | Software Price | | | INPUT_ Recur Line 62 | $38,000,000 |
| 11 | | | | | |
| 12 | In-Service Mid-Year Demand Year 1 | | | INPUT_ Recur Line 63 | 8,965 |
| 13 | | | | | |
| 14 | In-Service Mid-Year Demand Year 2 | | | INPUT_ Recur Line 64 | 66,831 |
| 15 | | | | | |
| 16 | In-Service Mid-Year Demand Year 3 | | | INPUT_ Recur Line 65 | 183,292 |
| 17 | | | | | |
| 18 | In-Service Mid-Year Demand Year 4 | | | INPUT_ Recur Line 66 | 318,377 |
| 19 | | | | | |
| 20 | In-Service Mid-Year Demand Year 5 | | | INPUT_ Recur Line 67 | 440,625 |
| 21 | | | | | |
| 22 | Total In-Service Mid-Year Demand | | | Sum(Line 12...Line 20) | 1,018,088 |
| 23 | | | | | |
| 24 | Economic Life of Software (years) | | | INPUT_ Recur Line 68 | 5 |
| 25 | | | | | |
| 26 | Average In-Service Mid-Year Demand | | | Line 22 / Line 24 | 203,618 |
| 27 | | | | | |
| 28 | Avg Software Investment per Line | 460C | 00 | Line 10 / Line 26 | $186.624 |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | Software Implementation Monthly Expense | | | INPUT_ Recur Line 59 | $585,224.55 |
| 33 | | | | | |
| 34 | Average In-Service Mid-Year Demand | | | Line 26 | 203,618 |
| 35 | | | | | |
| 36 | Average Monthly Software Implementation Expense | | | Line 32 / Line 34 | $2.874 |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| 41 | | | | | |
| 42 | | | | | |
| 43 | | | | | |
| 44 | | | | | |
| 45 | | | | | |
| 46 | | | | | |
| 47 | | | | | |
| 48 | | | | | |
| 49 | | | | | |
| 50 | | | | | |
| 51 | | | | | |
| 52 | | | | | |
| 53 | | | | | |
| 54 | | | | | |
| 55 | | | | | |
| 56 | | | | | |
| 57 | | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 60 | | | | | |

# TENNESSEE
# APPENDIX A

The following worksheets showing the calculations associated with loadings and factors development discussed in Section 4 are included in this Appendix.

| | File Name |
|---|---|
| 1. TPI's/Levelized Inflation Factors | InfltnLv.xls |
| 2. Inplant Factors – COE | IPlntCOE.xls |
| 3. Inplant Factors – OSP | IPlantOSP.xls |
| 4. Plug-in Factors – Hard-wired Factors | HW~PI98.xls |
| 5. Supporting Equipment & Power Loadings | ComPwr.xls |
| 6. Plant Specific, Land and Building Loadings<br>Pole and Conduit Loadings | PLSP99Ex.xlz |
| 7. Capital Cost Model Calculations | Model Output |
| 8. Ad Valorem and Other Taxes | AdVal97.xls |
| 9. Gross receipts Tax | 99stuse3.xls |
| 10. Disconnect Factor | Discon99.xls |
| 11. Labor Rates | 99Lab_tn.xls |

1999

ACCOUNT AVERAGE LEVELIZED INFLATION LOADINGS
FOR FORWARD LOOKING STUDIES - THREE YEARS (2000 thru 2002)

| BELLSOUTH | | INFLATION FACTORS | | | CUMULATIVE INFLATION FACTORS | | | | INVESTMENT INFLATION LOADINGS |
|---|---|---|---|---|---|---|---|---|---|
| | | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 | TOTAL | H |
| ACCOUNT NAME | FRC | A | B | C | D =1+(A/100) | E =1+(B/100)XD | F 1+(C/100)XE | G =D+E+F | =G/3 |
| BUILDINGS | 10C | 2.3 | 2.5 | 2.5 | 1.023305 | 1.048500 | 1.074400 | 3.146205 | 1.048735 |
| MOTOR VEHICLES | 40C | 1.0 | 1.0 | 1.0 | 1.010000 | 1.020100 | 1.030300 | 3.060400 | 1.020133 |
| AIRCRAFT | 140C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| GARAGE WORK EQ | 340C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| OTHER WORK EQ | 540C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| FURNITURE | 30C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| OFFICE EQUIPMENT | 430,718C | 0.0 | 0.0 | 0.0 | 1.000000 | 1.000000 | 1.000000 | 3.000000 | 1.000000 |
| OFF SUPPORT EQ | | 0.0 | 0.0 | 0.0 | 1.000000 | 1.000000 | 1.000000 | 3.000000 | 1.000000 |
| OTH COMM EQ | | 0.0 | 0.0 | 0.0 | 1.000000 | 1.000000 | 1.000000 | 3.000000 | 1.000000 |
| G.P. COMPUTERS | 530C | -18.0 | -17.0 | -17.0 | 0.820000 | 0.680600 | 0.564900 | 2.065500 | 0.688500 |
| GEN EQ COMPOSITE | | -9.0 | -7.0 | -7.0 | 0.910000 | 0.846300 | 0.787100 | 2.543400 | 0.847800 |
| ANALOG ELECTRONIC | 77C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| DIGITAL ELECTRONIC | 377C | 1.0 | 1.0 | 1.0 | 1.010000 | 1.020100 | 1.030300 | 3.060400 | 1.020133 |
| OPERATOR SYSTEMS | 117C | 0.0 | 1.0 | 1.0 | 1.000000 | 1.010000 | 1.020100 | 3.030100 | 1.010033 |
| RADIO | 67C | 0.0 | 0.0 | 0.0 | 1.000000 | 1.000000 | 1.000000 | 3.000000 | 1.000000 |
| CIRCUIT COMPOSITE | | -1.0 | -1.0 | 0.0 | 0.990000 | 0.980100 | 0.980100 | 2.950200 | 0.983400 |
| ANALOG | 57,457C | 5.0 | 4.0 | 3.0 | 1.050000 | 1.092000 | 1.124800 | 3.266800 | 1.088933 |
| DIGITAL SPG | 257C | -2.0 | 0.0 | 0.0 | 0.980000 | 0.980000 | 0.980000 | 2.940000 | 0.980000 |
| OTHER DIGITAL | 157,357C | -1.0 | -2.0 | -2.0 | 0.990000 | 0.970200 | 0.950800 | 2.911000 | 0.970333 |
| COE COMPOSITE | | -1.0 | 0.0 | 0.0 | 0.990000 | 0.990000 | 0.990000 | 2.970000 | 0.990000 |
| STATION APPARATUS | 318C | -1.0 | 0.0 | 0.0 | 0.990000 | 0.990000 | 0.990000 | 2.970000 | 0.990000 |
| LARGE PBX | 258C | -1.0 | -1.0 | 0.0 | 0.990000 | 0.980100 | 0.980100 | 2.950200 | 0.983400 |
| PUBLIC TELEPHONES | 198C | 1.0 | 1.0 | 1.0 | 1.010000 | 1.020100 | 1.030300 | 3.060400 | 1.020133 |
| OTH TERM EQ | 558,858C | 0.0 | 0.0 | 1.0 | 1.000000 | 1.000000 | 1.010000 | 3.010000 | 1.003333 |
| STATION COMPOSITE | | 0.0 | 0.0 | 0.0 | 1.000000 | 1.000000 | 1.000000 | 3.000000 | 1.000000 |
| ISP COMPOSITE | | -1.0 | 0.0 | 0.0 | 0.990000 | 0.990000 | 0.990000 | 2.970000 | 0.990000 |

SOURCE: TPI from Network - Forecast Telephone Plant Indexes, Oct, 1998 Forecast of % Cost Change, Att. C, Pages 1 & 2

000126

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| POLES | 1C | 3.7 | 3.8 | 3.8 | 1.037340 | 1.076300 | 1.116800 | 3.230440 | 1.076813 |
| AERIAL CABLE | | 4.0 | 4.0 | 3.0 | 1.040000 | 1.081600 | 1.114000 | 3.235600 | 1.078533 |
| COPPER | 22C | 4.0 | 4.0 | 4.0 | 1.040000 | 1.081600 | 1.124900 | 3.246500 | 1.082167 |
| OPTICAL | 822C | 1.0 | 1.0 | 1.0 | 1.010000 | 1.020100 | 1.030300 | 3.060400 | 1.020133 |
| U.G. CABLE | | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| COPPER | 5C | 5.0 | 4.0 | 4.0 | 1.050000 | 1.092000 | 1.135700 | 3.277700 | 1.092567 |
| OPTICAL | 85C | 0.0 | 0.0 | 0.0 | 1.000000 | 1.000000 | 1.000000 | 3.000000 | 1.000000 |
| BURIED CABLE | | 4.0 | 3.0 | 3.0 | 1.040000 | 1.071200 | 1.103300 | 3.214500 | 1.071500 |
| COPPER | 45C | 4.0 | 3.0 | 3.0 | 1.040000 | 1.071200 | 1.103300 | 3.214500 | 1.071500 |
| OPTICAL | 845C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| SUBMARINE CABLE | | 3.0 | 3.0 | 3.0 | 1.030000 | 1.060900 | 1.092700 | 3.183600 | 1.061200 |
| COPPER | 6C | 4.0 | 4.0 | 3.0 | 1.040000 | 1.081600 | 1.114000 | 3.235600 | 1.078533 |
| OPTICAL | 86C | 2.0 | 3.0 | 3.0 | 1.020000 | 1.050600 | 1.082100 | 3.152700 | 1.050900 |
| INBLDG NETWK CABLE | | 4.0 | 4.0 | 3.0 | 1.040000 | 1.081600 | 1.114000 | 3.235600 | 1.078533 |
| COPPER | 52C | 5.0 | 4.0 | 4.0 | 1.050000 | 1.092000 | 1.135700 | 3.277700 | 1.092567 |
| OPTICAL | 852C | 2.0 | 2.0 | 2.0 | 1.020000 | 1.040400 | 1.061200 | 3.121600 | 1.040533 |
| CABLE COMPOSITE | | 4.0 | 3.0 | 3.0 | 1.040000 | 1.071200 | 1.103300 | 3.214500 | 1.071500 |
| COPPER | | 4.0 | 4.0 | 4.0 | 1.040000 | 1.081600 | 1.124900 | 3.246500 | 1.082167 |
| OPTICAL | | 1.0 | 1.0 | 1.0 | 1.010000 | 1.020100 | 1.030300 | 3.060400 | 1.020133 |
| CONDUIT SYSTEMS | 4C | 3.2 | 3.7 | 3.5 | 1.032193 | 1.070000 | 1.107800 | 3.209993 | 1.069998 |
| OSP STRUCTURES | | 3.4 | 3.7 | 3.6 | 1.034220 | 1.072500 | 1.111400 | 3.218120 | 1.072707 |
| OSP COMPOSITE | | 3.6 | 3.2 | 3.2 | 1.035654 | 1.069000 | 1.102800 | 3.207454 | 1.069151 |
| TOTAL COMPOSITE | | 0.0 | 1.0 | 1.0 | 1.000000 | 1.010000 | 1.020100 | 3.030100 | 1.010033 |

0001277

# Tennessee

| | Input Items | Expenditure Type Code | C057 | C067 | C077 | C117 | C157 | C167 | C257 | C357 | C377 | COE TOTAL | ANALOG | DGTL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Telco Plant Labor Costs | CP1,CP2,CP3,CPA,CPB,CPC,CQ4, CQ5,CQF,CQG,CQH,CQJ,CQK,CQ L,CQM,CQN,CQP,CQQ,CQR,CQS | 73,466 | 0 | 30,792 | 231 | 7,442 | 0 | 2,405,328 | 534,412 | 442,246 | 3,493,917 | 104,489 | 3,389,428 |
| 2 | Telco Engineering Costs | CE1,CE2,CE3,CEA,CEB,CEC | 708 | 0 | 20,938 | 8,349 | 0 | 517 | 1,053,481 | 752,017 | 620,361 | 2,456,371 | 30,512 | 2,425,859 |
| 3 | Telco Engineering Projects | NOT APPLICABLE | | | | | | | | | | | | |
| 4 | Other Costs | All Other Codes | $93,145 | ($8,165) | ($874,217) | ($411,144) | ($8,363) | $1,197 | $4,476,874 | ($1,364,702) | $3,643,103 | $7,569,113 | ($1,199,184) | $8,746,912 |
| 5 | Vendor Engineering Costs | 463 | $838 | $0 | $96,327 | $175,426 | $0 | $5,500 | $2,169,332 | $2,726,325 | $3,378,188 | $8,555,936 | $280,091 | $8,275,845 |
| 6 | Vendor Installation Costs | 481,48J,48P,48Q | $1,278 | $0 | $448,746 | $327,972 | $2,917 | $16,452 | $6,391,477 | $5,512,008 | $7,093,598 | $19,794,448 | $794,448 | $19,000,000 |
| 7A | Exempt Material Costs | CQ1 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| 7B | Non-Exempt Material Costs | 523,524,61E,61F,61G,631,CJ1,CJ4, CJ6,CJF | $77,534 | $0 | $1,104,670 | $1,006,458 | $511,833 | $7,313 | $47,958,056 | $48,875,987 | $64,963,670 | $164,505,521 | $2,195,975 | $162,309,546 |
| 8 | State Sales Tax Rate | Corporate tax Office | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% |
| 9 | Non-exempt Mat'l less sales tax | Ln 7B/(1+Ln 8) | $73,145 | $0 | $1,042,142 | $949,489 | $482,861 | $6,899 | $45,243,449 | $46,109,422 | $61,286,481 | $155,193,888 | $2,071,675 | $153,122,213 |
| 10 | Total | Sum Lns 1-7B | $283,615 | ($8,165) | $878,697 | $1,107,413 | $518,937 | $30,979 | $65,835,381 | $57,323,398 | $80,405,051 | $206,375,306 | $2,292,539 | $204,082,767 |
| 11 | Material Factor | Ln 10/Ln 9 | 3.877420 | #DIV/0! | 0.843165 | 1.166326 | 1.074712 | 4.490324 | 1.455136 | 1.243204 | 1.311954 | 1.329790 | 1.106612 | 1.332810 |
| 12 | Telco Factor | Ln 10/(Ln 5+Ln 6+Ln9) | 3.768405 | #DIV/0! | 0.552913 | 0.762216 | 1.068259 | 1.073756 | 1.223609 | 1.054713 | 1.120499 | 1.124390 | 0.728666 | 1.131291 |
| 13 | Material - Surrogate | Digital or Analog Factor | 1.106612 | 1.106612 | 1.106612 | 1.106612 | 1.332810 | 1.106612 | 1.332810 | 1.332810 | 1.332810 | 1.320711 | 1.329790 | 1.329790 |
| 14 | Telco - Surrogate | Digital or Analog Factor | 1.124390 | 1.124390 | 1.124390 | 1.124390 | 1.131291 | 1.124390 | 1.131291 | 1.131291 | 1.131291 | 1.125632 | 1.124390 | 1.124390 |
| 15 | Material - Used | Note 1 | 3.877420 | 1.106612 | 1.106612 | 1.166326 | 1.074712 | 1.106612 | 1.455136 | 1.243204 | 1.311954 | 1.329790 | 1.106612 | 1.332810 |
| 16 | Telco - Used | Note 1 | 3.768405 | 1.124390 | 1.124390 | 1.124390 | 1.068259 | 1.124390 | 1.223609 | 1.054713 | 1.120499 | 1.124390 | 1.124390 | 1.131291 |

NOTES:

1 The surrogate factors are composites of the digital or analog accounts. The surrogate factor is used whenever the total investment falls below $100,000, the material cost falls below $50,000, or is otherwise deemed unreliable.

000128

# BellSouth

| | Input Items | Expenditure Type Code | C057 | C067 | C077 | C117 | C157 | C167 | C257 | C357 | C377 | COE TOTAL | ANALOG | DGTL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Telco Plant Labor Costs | CP1,CP2,CP3,CPA,CPB,CPC,CQ4,CQ5,CQF,CQG,CQH,CQJ,CQK,CQL,CQM,CQN,CQP,CQQ,CQR,CQS | 204,716 | 2,287 | 610,709 | 9,539 | 18,986 | 0 | 16,750,037 | 4,166,265 | 5,079,140 | 26,841,679 | 827,251 | 26,014,428 |
| 2 | Telco Engineering Costs | CE1,CE2,CE3,CEA,CEB,CEC | 145,191 | 6,276 | 666,026 | 106,394 | 729 | 2,387 | 4,937,619 | 6,726,936 | 7,709,952 | 20,303,510 | 926,274 | 19,377,236 |
| 3 | Telco Engineering Projects | NOT APPLICABLE | | | | | | | | | | | | |
| 4 | Other Costs | All Other Codes | $471,742 | ($372,370) | ($13,886,169) | ($299,490) | $293,383 | $73,472 | $63,497,742 | ($15,211,454) | $42,269,107 | $94,602,931 | ($14,012,815) | $90,848,778 |
| 5 | Vendor Engineering Costs | 463 | $227,036 | $56,279 | $2,437,254 | $503,227 | $77 | $20,562 | $22,117,628 | $21,761,070 | $33,766,679 | $80,888,812 | $3,244,358 | $77,644,454 |
| 6 | Vendor Installation Costs | 481,48J,48P,48Q | $651,206 | $274,451 | $6,832,181 | $1,312,108 | $27,047 | $63,138 | $51,699,180 | $42,551,058 | $71,464,471 | $174,874,840 | $9,133,084 | $165,741,756 |
| 7A | Exempt Material Costs | CQ1 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| 7B | Non-Exempt Material Costs | 523,524,61E,61F,61G,631,CJ1,CJ4,CJ8,CJF | $8,054,618 | $348,807 | $26,847,187 | $8,929,160 | $3,465,174 | $56,909 | $411,719,298 | $462,744,979 | $627,409,432 | $1,549,575,562 | $44,236,681 | $1,505,338,881 |
| 8 | State Sales Tax Rate | Corporate tax Office | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% |
| 9 | Non-exempt Mat'l less sales tax | Ln 7B/(1+Ln 8) | $7,671,065 | $332,197 | $25,568,750 | $8,503,962 | $3,300,166 | $54,199 | $392,113,615 | $440,709,504 | $597,532,792 | $1,475,786,250 | $42,130,172 | $1,433,656,077 |
| 10 | Total | Sum Lns 1-7B | $9,906,250 | $319,744 | $24,297,744 | $10,616,819 | $3,821,748 | $216,468 | $583,696,518 | $525,441,571 | $790,770,472 | $1,949,087,334 | $45,357,025 | $1,903,730,309 |
| 11 | Material Factor | Ln 10/Ln 9 | 1.291379 | 0.962513 | 0.950291 | 1.248456 | 1.158047 | 3.993945 | 1.488590 | 1.192263 | 1.323393 | 1.320711 | 1.076592 | 1.327885 |
| 12 | Telco Factor | Ln 10/(Ln 5+Ln 6+Ln9) | 1.158720 | 0.482321 | 0.697446 | 1.028832 | 1.148607 | 1.569757 | 1.252755 | 1.040434 | 1.125231 | 1.125632 | 0.832123 | 1.135171 |
| 13 | Material - Surrogate | Digital or Analog Factor | 1.076592 | 1.076592 | 1.076592 | 1.076592 | 1.327885 | 1.076592 | 1.327885 | 1.327885 | 1.327885 | 1.320711 | 1.320711 | 1.320711 |
| 14 | Telco - Surrogate | Digital or Analog Factor | 1.125632 | 1.125632 | 1.125632 | 1.125632 | 1.135171 | 1.125632 | 1.135171 | 1.135171 | 1.135171 | 1.125632 | 1.125632 | 1.125632 |
| 15 | Material - Used | Note 1 | 1.291379 | 1.076592 | 1.076592 | 1.248456 | 1.158047 | 3.993945 | 1.488590 | 1.192263 | 1.323393 | 1.320711 | 1.076592 | 1.327885 |
| 16 | Telco - Used | Note 1 | 1.158720 | 1.125632 | 1.125632 | 1.028832 | 1.148607 | 1.569757 | 1.252755 | 1.040434 | 1.125231 | 1.125632 | 1.125632 | 1.135171 |

NOTES:

1 The surrogate factors are composites of the digital or analog accounts. The surrogate factor is used whenever the total investment falls below $100,000, the material cost falls below $50,000, or is otherwise deemed unreliable.

000129

# RTAP Extract - 1998

| STATE | FRC | EXTC | INVEST |
|---|---|---|---|
| TN | C057 | 463 | 838 |
| TN | C057 | 481 | 1278 |
| TN | C057 | 523 | 55314 |
| TN | C057 | 780 | 1 |
| TN | C057 | 989 | 3731 |
| TN | C057 | CA4 | 32431 |
| TN | C057 | CE1 | 394 |
| TN | C057 | CE2 | 89 |
| TN | C057 | CE3 | 34 |
| TN | C057 | CEA | 109 |
| TN | C057 | CEB | 23 |
| TN | C057 | CEC | 59 |
| TN | C057 | CJ4 | 19406 |
| TN | C057 | CJP | 2814 |
| TN | C057 | CP1 | 73466 |
| TN | C057 | CP2 | 16437 |
| TN | C057 | CP3 | 2689 |
| TN | C057 | CPA | 5308 |
| TN | C057 | CPB | 1220 |
| TN | C057 | CPC | 1838 |
| TN | C057 | CQJ | 1821 |
| TN | C057 | CQK | 12 |
| TN | C057 | CQL | 2176 |
| TN | C057 | CQM | 377 |
| TN | C057 | CQN | 83 |
| TN | C057 | CQQ | 4681 |
| TN | C057 | CQR | 3 |
| TN | C057 | CQS | 1 |
| TN | C057 | CY1 | 56982 |
| TN | C067 | CA4 | 1834 |
| TN | C067 | CY1 | -9999 |
| TN | C077 | 463 | 98327 |
| TN | C077 | 481 | 448746 |
| TN | C077 | 523 | 481329 |
| TN | C077 | 780 | 16676 |
| TN | C077 | 989 | 6876 |
| TN | C077 | 82C | 1873 |
| TN | C077 | 83A | 830 |
| TN | C077 | CA4 | -278286 |
| TN | C077 | CE1 | 12051 |
| TN | C077 | CE2 | 2568 |
| TN | C077 | CE3 | 823 |
| TN | C077 | CEA | 3237 |
| TN | C077 | CEB | 740 |
| TN | C077 | CEC | 1519 |
| TN | C077 | CJ4 | 704953 |
| TN | C077 | CJP | -81612 |
| TN | C077 | CP1 | 30792 |
| TN | C077 | CP2 | 7151 |
| TN | C077 | CP3 | 1057 |
| TN | C077 | CPA | 2337 |
| TN | C077 | CPB | 543 |
| TN | C077 | CPC | 800 |
| TN | C077 | CQJ | 34953 |
| TN | C077 | CQK | 6 |
| TN | C077 | CQL | 886 |
| TN | C077 | CQM | 152 |
| TN | C077 | CQN | 35 |
| TN | C077 | CQP | 0 |
| TN | C077 | CQQ | 1518 |
| TN | C077 | CQR | 2 |

| | | | |
|---|---|---|---|
| TN | C077 | CQS | 1 |
| TN | C077 | CY1 | -622186 |
| TN | C117 | 463 | 175426 |
| TN | C117 | 481 | 327972 |
| TN | C117 | 523 | 1006458 |
| TN | C117 | 780 | 635 |
| TN | C117 | CA4 | -227250 |
| TN | C117 | CE1 | 4791 |
| TN | C117 | CE2 | 994 |
| TN | C117 | CE3 | 329 |
| TN | C117 | CEA | 1304 |
| TN | C117 | CEB | 287 |
| TN | C117 | CEC | 644 |
| TN | C117 | CP1 | 231 |
| TN | C117 | CP2 | 55 |
| TN | C117 | CP3 | 8 |
| TN | C117 | CPA | 22 |
| TN | C117 | CPB | 5 |
| TN | C117 | CPC | 7 |
| TN | C117 | CQK | 0 |
| TN | C117 | CQL | 9 |
| TN | C117 | CQM | 1 |
| TN | C117 | CQN | 0 |
| TN | C117 | CQQ | 14 |
| TN | C117 | CY1 | -184529 |
| TN | C157 | 481 | 2917 |
| TN | C157 | 523 | 496571 |
| TN | C157 | 524 | 540 |
| TN | C157 | 989 | 34251 |
| TN | C157 | CA4 | 172820 |
| TN | C157 | CJ4 | 11802 |
| TN | C157 | CJP | 2920 |
| TN | C157 | CP1 | 7442 |
| TN | C157 | CP2 | 1945 |
| TN | C157 | CP3 | 239 |
| TN | C157 | CPA | 558 |
| TN | C157 | CPB | 126 |
| TN | C157 | CPC | 195 |
| TN | C157 | CQJ | 1414 |
| TN | C157 | CQK | 1 |
| TN | C157 | CQL | 219 |
| TN | C157 | CQM | 38 |
| TN | C157 | CQN | 8 |
| TN | C157 | CQQ | 365 |
| TN | C157 | CQR | 0 |
| TN | C157 | CQS | 0 |
| TN | C157 | CY1 | -215434 |
| TN | C167 | 463 | 5500 |
| TN | C167 | 481 | 16452 |
| TN | C167 | 523 | 7313 |
| TN | C167 | CE1 | 284 |
| TN | C167 | CE2 | 61 |
| TN | C167 | CE3 | 21 |
| TN | C167 | CEA | 85 |
| TN | C167 | CEB | 18 |
| TN | C167 | CEC | 48 |
| TN | C167 | CY1 | 1197 |
| TN | C257 | 451 | 257887 |
| TN | C257 | 463 | 2169332 |
| TN | C257 | 464 | 3111 |
| TN | C257 | 471 | 844 |
| TN | C257 | 481 | 6391477 |
| TN | C257 | 523 | 45841692 |
| TN | C257 | 524 | 1853421 |
| TN | C257 | 644 | 36790 |

**000131**

| | | | |
|---|---|---|---|
| TN | C257 | 658 | 0 |
| TN | C257 | 661 | 151 |
| TN | C257 | 710 | -4135 |
| TN | C257 | 768 | 125 |
| TN | C257 | 780 | 357008 |
| TN | C257 | 989 | 1476281 |
| TN | C257 | 48J | 1313 |
| TN | C257 | 61E | 1093254 |
| TN | C257 | 61G | 35249 |
| TN | C257 | 79A | 4442 |
| TN | C257 | CA4 | 585494 |
| TN | C257 | CE1 | 540165 |
| TN | C257 | CE2 | 143814 |
| TN | C257 | CE3 | 65223 |
| TN | C257 | CEA | 175246 |
| TN | C257 | CEB | 37765 |
| TN | C257 | CEC | 91268 |
| TN | C257 | CJ1 | 0 |
| TN | C257 | CJ4 | 223741 |
| TN | C257 | CJP | 39202 |
| TN | C257 | CP1 | 2405328 |
| TN | C257 | CP2 | 637371 |
| TN | C257 | CP3 | 87466 |
| TN | C257 | CPA | 185288 |
| TN | C257 | CPB | 41991 |
| TN | C257 | CPC | 64935 |
| TN | C257 | CQJ | 137639 |
| TN | C257 | CQK | 443 |
| TN | C257 | CQL | 75823 |
| TN | C257 | CQM | 13045 |
| TN | C257 | CQN | 2870 |
| TN | C257 | CQP | 1 |
| TN | C257 | CQQ | 133803 |
| TN | C257 | CQR | 127 |
| TN | C257 | CQS | 31 |
| TN | C257 | CY1 | 108606 |
| TN | C257 | CY7 | -6301 |
| TN | C257 | CYA | 549211 |
| TN | C257 | CYB | -22456 |
| TN | C357 | 463 | 2728325 |
| TN | C357 | 481 | 5512008 |
| TN | C357 | 523 | 48295424 |
| TN | C357 | 524 | 6202 |
| TN | C357 | 780 | 50691 |
| TN | C357 | 989 | 1209292 |
| TN | C357 | 61E | 1441626 |
| TN | C357 | CA4 | 1580028 |
| TN | C357 | CE1 | 429076 |
| TN | C357 | CE2 | 85946 |
| TN | C357 | CE3 | 29177 |
| TN | C357 | CEA | 118769 |
| TN | C357 | CEB | 25901 |
| TN | C357 | CEC | 63148 |
| TN | C357 | CJ4 | 228774 |
| TN | C357 | CJ6 | 6752 |
| TN | C357 | CJP | 338835 |
| TN | C357 | CP1 | 534412 |
| TN | C357 | CP2 | 130027 |
| TN | C357 | CP3 | 18101 |
| TN | C357 | CPA | 38315 |
| TN | C357 | CPB | 8681 |
| TN | C357 | CPC | 13419 |
| TN | C357 | CQJ | 30006 |
| TN | C357 | CQK | 93 |
| TN | C357 | CQL | 15614 |

| | | | |
|---|---|---|---|
| TN | C357 | CQM | 2690 |
| TN | C357 | CQN | 595 |
| TN | C357 | CQP | 0 |
| TN | C357 | CQQ | 27780 |
| TN | C357 | CQR | 24 |
| TN | C357 | CQS | 6 |
| TN | C357 | CY1 | -5646339 |
| TN | C377 | 255 | 2176 |
| TN | C377 | 463 | 3378188 |
| TN | C377 | 481 | 7093598 |
| TN | C377 | 523 | 64005412 |
| TN | C377 | 524 | 40915 |
| TN | C377 | 780 | 483038 |
| TN | C377 | 810 | 369704 |
| TN | C377 | 811 | 12884 |
| TN | C377 | 989 | 184132 |
| TN | C377 | 61E | 1611064 |
| TN | C377 | 61G | -67237 |
| TN | C377 | 82C | 32148 |
| TN | C377 | 83A | 6495 |
| TN | C377 | CA4 | 877468 |
| TN | C377 | CE1 | 330731 |
| TN | C377 | CE2 | 65656 |
| TN | C377 | CE3 | 70118 |
| TN | C377 | CEA | 88790 |
| TN | C377 | CEB | 19693 |
| TN | C377 | CEC | 45373 |
| TN | C377 | CJ4 | 440383 |
| TN | C377 | CJ6 | 368048 |
| TN | C377 | CJP | 108912 |
| TN | C377 | CP1 | 442246 |
| TN | C377 | CP2 | 109940 |
| TN | C377 | CP3 | 15551 |
| TN | C377 | CPA | 33124 |
| TN | C377 | CPB | 7498 |
| TN | C377 | CPC | 11594 |
| TN | C377 | CQJ | 45185 |
| TN | C377 | CQK | 76 |
| TN | C377 | CQL | 12967 |
| TN | C377 | CQM | 2282 |
| TN | C377 | CQN | 499 |
| TN | C377 | CQP | 0 |
| TN | C377 | CQQ | 25142 |
| TN | C377 | CQR | 22 |
| TN | C377 | CQS | 5 |
| TN | C377 | CY1 | 251716 |
| TN | C377 | CY7 | -120485 |
| TN | C527 | 523 | -1395 |
| TN | C527 | CY1 | 1395 |

Calculation of Telco & Material In-Plant Factors - 2000 - 2002

## Tennessee

| | Input Items | Expenditure Type Code | C666 | C666 | C612 | C622 | C648 | C662 | C666 | C666 | C612 | C622 | C648 | C662 | OSP TOTAL | METAL | FIBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Telco Plant Labor Costs | CP1,CP2,CP3,CPA,CPB,CPC,CQ4,CQ5,CQF,CQG,CQH,CQJ,CQK,CQL,CQM,CQN,CQP,CQQ,CQR,CQS | 1,377,126 | 0 | 1,152,370 | 8,459,519 | 6,099,839 | 114,521 | 738,488 | 4,004 | 192,226 | 1,459,175 | 1,190,697 | 1,886 | 20,787,854 | 17,203,378 | 3,584,476 |
| 2 | Telco Engineering Costs | CE1,CE2,CE3,CEA,CEB,CEC | 49,478 | 0 | 6,809 | 607,582 | 515,330 | 1,096 | 98,845 | 0 | 6,324 | 136,033 | 36,228 | 130 | 1,356,855 | 1,080,295 | 275,560 |
| 3 | Telco Engineering Projects | NOT APPLICABLE | | | | | | | | | | | | | | | |
| 4 | Other Costs | All Other Codes | ($159,639) | $0 | ($78,628) | $458,394 | $1,581,261 | $0 | ($121,461) | $10 | ($1,998) | $116,532 | $159,833 | $0 | $1,954,305 | $1,801,389 | $152,916 |
| 5 | Vendor Engineering Costs | 483 | $126,260 | $97 | $199,049 | $1,488,379 | $5,026,548 | $8,080 | $118,418 | $580 | $31,024 | $267,298 | $767,711 | $281 | $8,014,683 | $6,829,393 | $1,185,290 |
| 6 | Vendor Installation Costs | 481,48J,48P,48Q | $257,202 | $0 | $147,302 | $1,224,179 | $18,881,300 | $4,750 | $325,789 | $0 | $29,012 | $267,902 | $2,295,484 | $278 | $23,423,178 | $20,514,711 | $2,908,445 |
| 7A | Exempt Material Costs | CQ1 | $578,014 | $0 | $474,318 | $3,490,088 | $2,397,172 | $46,641 | $273,481 | $1,380 | $83,431 | $660,985 | $486,273 | $1,246 | $8,390,907 | $6,986,111 | $1,404,796 |
| 7B | Non-Exempt Material Costs | 523,524,61E,61F,61G,631,CJ1,CJ4,CJ8,CJF | $876,439 | $4,272 | $570,966 | $6,781,202 | $8,533,751 | $84,610 | $1,748,988 | $0 | $123,081 | $2,887,141 | $2,004,808 | $109 | $23,375,226 | $16,831,280 | $6,543,987 |
| 8 | State Sales Tax Rate | Corporate tax Office | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% | 6.00% |
| 9 | Non-exempt Mat'l less sale | Ln 7B(1+Ln 8) | $828,829 | $4,030 | $538,648 | $6,397,380 | $8,050,708 | $80,963 | $1,649,975 | $0 | $116,095 | $2,516,171 | $1,891,328 | $103 | $22,052,100 | $15,878,527 | $6,173,573 |
| 10 | Total | Sum Lns 1-7B | $3,108,884 | $4,388 | $2,471,185 | $22,388,321 | $43,036,201 | $239,678 | $3,180,428 | $5,964 | $462,080 | $5,464,084 | $4,939,014 | $3,930 | $87,302,008 | $71,246,538 | ########## |
| 11 | Material Factor | Ln 10/Ln 9 | 3.757588 | 1.084088 | 4.587770 | 3.499775 | 5.346517 | 3.930548 | 1.927878 | 0.000000 | 3.980179 | 2.171579 | 3.698867 | 39.218348 | 3.958898 | 4.486974 | 2.608677 |
| 12 | Telco Factor | Ln 10/(Ln 5+Ln 6+Ln9) | 2.562820 | 1.058580 | 2.795467 | 2.483094 | 1.346584 | 3.247950 | 1.618788 | 10.632143 | 2.623498 | 1.796581 | 1.498647 | 5.938079 | 1.632119 | 1.648361 | 1.563747 |
| 13 | Material - Surrogate | Metallic or Fiber Factor | 4.486974 | 4.486974 | 4.486974 | 4.486974 | 4.486974 | 4.486974 | 2.608677 | 2.608677 | 2.608677 | 2.608677 | 2.608677 | 2.608677 | 4.354922 | 3.958898 | 3.958898 |
| 14 | Telco - Surrogate | Metallic or Fiber Factor | 1.648361 | 1.648361 | 1.648361 | 1.648361 | 1.648361 | 1.648361 | 1.563747 | 1.563747 | 1.563747 | 1.563747 | 1.563747 | 1.563747 | 1.581680 | 1.632119 | 1.632119 |
| 15 | Material - Used | Note 1 | 3.757588 | 4.486974 | 4.587770 | 3.499775 | 5.346517 | 3.930548 | 1.927878 | 2.608677 | 3.980179 | 2.171579 | 3.698867 | 2.608677 | 3.958898 | 4.486974 | 2.608677 |
| 16 | Telco - Used | Note 1 | 2.562820 | 1.648361 | 2.795467 | 2.483094 | 1.346584 | 3.247950 | 1.618788 | 1.563747 | 2.623498 | 1.796581 | 1.498647 | 1.563747 | 1.632119 | 1.648361 | 1.563747 |

NOTES:

1 The surrogate factor is the composite of metallic or fiber accounts. The surrogate factor is used whenever the investment falls below $1000,000, or is otherwise deemed unreliable.

0001341

Calculation of Telco & Material In-Plant Factors - 2000 - 2002

**BellSouth**

| | Input Items | Expenditure Type Code | C006 | C006 | C012 | C022 | C048 | C052 | C066 | C006 | C012 | C022 | C048 | C052 | OSP TOTAL | METAL | FIBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Telco Plant Labor Costs | CP1,CP2,CP3,CPA,CPB,CPC,CQ4,CQ5,CQF,CQG,CQH,CQJ,CQK,CQL,CQM,CQN,CQP,CQQ,CQR,CQS | 14,847,708 | 150 | 10,530,524 | 44,566,860 | 56,614,154 | 1,278,219 | 10,381,363 | 7,010 | 2,109,862 | 9,037,133 | 12,246,292 | 109,327 | 161,748,590 | 127,857,603 | 33,890,987 |
| 2 | Telco Engineering Costs | CE1,CE2,CE3,CEA,CEB,CEC | 866,824 | 0 | 3,066,223 | 4,382,416 | 6,276,053 | 340,281 | 758,145 | 0 | 680,427 | 442,784 | 806,089 | 39,039 | 17,981,280 | 15,263,797 | 2,727,483 |
| 3 | Telco Engineering Projects | NOT APPLICABLE | | | | | | | | | | | | | | | |
| 4 | Other Costs | All Other Codes | ($569,218) | $602 | ($983,718) | $3,727,048 | $13,990,193 | ($238,508) | $310,407 | $2,656 | ($72,788) | $659,571 | $2,304,959 | ($2,531) | $18,129,597 | $15,926,301 | $3,202,296 |
| 5 | Vendor Engineering Costs | 483 | $2,311,980 | $14,980 | $5,047,427 | $10,990,876 | $59,893,191 | $315,925 | $2,114,603 | $35,115 | $433,905 | $1,883,636 | $12,208,949 | $15,122 | $94,883,088 | $78,373,758 | $16,489,330 |
| 6 | Vendor Installation Costs | 481,48J,48P,48Q | $2,233,117 | $57,519 | $866,212 | $3,397,108 | $173,343,034 | $79,070 | $1,782,084 | $313,045 | $164,123 | $1,095,432 | $37,223,167 | $570 | $220,554,481 | ########## | $40,578,401 |
| 7A | Exempt Material Costs | CQ1 | $7,460,201 | $0 | $5,272,082 | $21,662,012 | $30,447,424 | $886,329 | $4,632,902 | $2,116 | $1,057,708 | $4,054,220 | $5,030,147 | $54,752 | $80,249,871 | $65,418,028 | $14,831,843 |
| 7B | Non-Exempt Material Costs | 523,524,61E,61F,61G,631,CJ1,CJ4,CJ8,CJF | ########## | $5,229 | $8,867,279 | $30,286,922 | $89,944,477 | $512,346 | $26,753,577 | $15,923 | $1,485,559 | $15,113,811 | $27,152,853 | $41,347 | $199,899,803 | ########## | $70,563,070 |
| 8 | State Sales Tax Rate | Corporate tax Office | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% |
| 9 | Non-exempt Mat'l less sales | Ln 7B/(1+Ln 8) | ########## | $4,980 | $8,540,266 | $28,843,736 | $85,613,788 | $487,948 | $25,479,597 | $15,165 | $1,414,818 | $14,394,106 | $25,859,860 | $39,378 | $179,894,096 | ########## | $67,202,974 |
| 10 | Total | Sum Lns 1-7B | ########## | $78,080 | ########## | $116,932,258 | $410,308,526 | ########## | $46,734,081 | $376,866 | $5,868,816 | $32,096,587 | $96,970,455 | $257,626 | $783,424,698 | ########## | ########## |
| 11 | Material Factor | Ln 10/Ln 9 | 3.884420 | ######## | 4.780641 | 4.123331 | 6.159614 | 6.884216 | 1.834178 | 24.785420 | 4.141038 | 2.229146 | 3.749845 | 6.542368 | 4.354922 | 5.334413 | 2.712432 |
| 12 | Telco Factor | Ln 10/(Ln 5+Ln 6+Ln 9) | 2.548808 | 1.011674 | 2.510639 | 2.751042 | 1.389293 | 3.367898 | 1.580878 | 1.034515 | 2.910712 | 1.888412 | 1.287980 | 4.676147 | 1.581680 | 1.620148 | 1.466826 |
| 13 | Material - Surrogate | Metallic or Fiber Factor | 5.334413 | 5.334413 | 5.334413 | 5.334413 | 5.334413 | 5.334413 | 2.712432 | 2.712432 | 2.712432 | 2.712432 | 2.712432 | 2.712432 | 4.354922 | 4.354922 | 4.354922 |
| 14 | Telco - Surrogate | Metallic or Fiber Factor | 1.620148 | 1.620148 | 1.620148 | 1.620148 | 1.620148 | 1.620148 | 1.466826 | 1.466826 | 1.466826 | 1.466826 | 1.466826 | 1.466826 | 1.581680 | 1.581680 | 1.581680 |
| 15 | Material - Used | Note 1 | 3.884420 | 5.334413 | 4.780641 | 4.123331 | 6.159614 | 6.884216 | 1.834178 | 2.712432 | 4.141038 | 2.229146 | 3.749845 | 2.712432 | 4.354922 | 5.334413 | 2.712432 |
| 16 | Telco - Used | Note 1 | 2.548808 | 1.620148 | 2.510639 | 2.751042 | 1.389293 | 3.367898 | 1.580878 | 1.466826 | 2.910712 | 1.888412 | 1.287980 | 1.466826 | 1.581680 | 1.620148 | 1.466826 |

NOTES:

1 The surrogate factor is the composite of metallic or fiber accounts. The surrogate factor is used whenever the investment falls below $1000,000, or is otherwise deemed unreliable.

0001135

RTAP EXTRACT

| STATE | FRC | EXTC | INVEST |
|---|---|---|---|
| TN | C001 | 451 | 1555 |
| TN | C001 | 463 | 1136925 |
| TN | C001 | 464 | 13 |
| TN | C001 | 481 | 3081116 |
| TN | C001 | 523 | 1291624 |
| TN | C001 | 524 | 4765 |
| TN | C001 | 644 | 79 |
| TN | C001 | 658 | 0 |
| TN | C001 | 661 | 320 |
| TN | C001 | 710 | -70325 |
| TN | C001 | 780 | 36057 |
| TN | C001 | 48A | 236 |
| TN | C001 | 48J | 46442 |
| TN | C001 | 59E | 2334 |
| TN | C001 | 79A | 1088 |
| TN | C001 | CA4 | -1256 |
| TN | C001 | CE1 | 42565 |
| TN | C001 | CE2 | 10758 |
| TN | C001 | CE3 | 6113 |
| TN | C001 | CEA | 14807 |
| TN | C001 | CEB | 3250 |
| TN | C001 | CEC | 7723 |
| TN | C001 | CJ1 | 197 |
| TN | C001 | CP1 | 513906 |
| TN | C001 | CP2 | 128662 |
| TN | C001 | CP3 | 17665 |
| TN | C001 | CPA | 37180 |
| TN | C001 | CPB | 8396 |
| TN | C001 | CPC | 13061 |
| TN | C001 | CQ1 | 330996 |
| TN | C001 | CQF | 7178 |
| TN | C001 | CQG | 1464 |
| TN | C001 | CQH | 3917 |
| TN | C001 | CQK | 90 |
| TN | C001 | CQL | 15293 |
| TN | C001 | CQM | 2634 |
| TN | C001 | CQN | 580 |
| TN | C001 | CQP | 0 |
| TN | C001 | CQQ | 26433 |
| TN | C001 | CQR | 20 |
| TN | C001 | CQS | 5 |
| TN | C001 | CY7 | -189258 |
| TN | C001 | CYA | 62213 |
| TN | C004 | 451 | 10833 |
| TN | C004 | 463 | 519014 |
| TN | C004 | 481 | 4306381 |
| TN | C004 | 523 | 1247941 |
| TN | C004 | 524 | 295270 |
| TN | C004 | 644 | 69 |
| TN | C004 | 658 | 0 |
| TN | C004 | 780 | 85992 |
| TN | C004 | 799 | 551 |
| TN | C004 | 48J | -100 |
| TN | C004 | 59H | -1040 |
| TN | C004 | 79A | 1033 |
| TN | C004 | CA4 | -91 |
| TN | C004 | CE1 | 17123 |
| TN | C004 | CE2 | 5140 |
| TN | C004 | CE3 | 2803 |
| TN | C004 | CEA | 5753 |
| TN | C004 | CEB | 1247 |

| | | | |
|---|---|---|---|
| TN | C004 | CEC | 2932 |
| TN | C004 | CJ1 | 2821 |
| TN | C004 | CP1 | 115533 |
| TN | C004 | CP2 | 30038 |
| TN | C004 | CP3 | 3873 |
| TN | C004 | CPA | 8578 |
| TN | C004 | CPB | 1944 |
| TN | C004 | CPC | 3004 |
| TN | C004 | CQ1 | 75873 |
| TN | C004 | CQF | 1849 |
| TN | C004 | CQG | 367 |
| TN | C004 | CQH | 910 |
| TN | C004 | CQJ | 14420 |
| TN | C004 | CQK | 21 |
| TN | C004 | CQL | 3524 |
| TN | C004 | CQM | 598 |
| TN | C004 | CQN | 131 |
| TN | C004 | CQP | 0 |
| TN | C004 | CQQ | 6321 |
| TN | C004 | CQR | 5 |
| TN | C004 | CQS | 1 |
| TN | C004 | CY1 | -1500 |
| TN | C004 | CY7 | -410304 |
| TN | C004 | CYA | 107329 |
| TN | C005 | 451 | 0 |
| TN | C005 | 463 | 128260 |
| TN | C005 | 464 | 0 |
| TN | C005 | 481 | 257202 |
| TN | C005 | 523 | 11361 |
| TN | C005 | 524 | 88099 |
| TN | C005 | 631 | -6514 |
| TN | C005 | 658 | 0 |
| TN | C005 | 710 | -89927 |
| TN | C005 | 780 | 72313 |
| TN | C005 | 59E | 78 |
| TN | C005 | 79A | 8 |
| TN | C005 | CA4 | 0 |
| TN | C005 | CE1 | 24146 |
| TN | C005 | CE2 | 7183 |
| TN | C005 | CE3 | 2847 |
| TN | C005 | CEA | 8745 |
| TN | C005 | CEB | 1845 |
| TN | C005 | CEC | 4712 |
| TN | C005 | CJ1 | 783493 |
| TN | C005 | CP1 | 872238 |
| TN | C005 | CP2 | 223721 |
| TN | C005 | CP3 | 29042 |
| TN | C005 | CPA | 68184 |
| TN | C005 | CPB | 15620 |
| TN | C005 | CPC | 23555 |
| TN | C005 | CQ1 | 578014 |
| TN | C005 | CQF | 32498 |
| TN | C005 | CQG | 6529 |
| TN | C005 | CQH | 17294 |
| TN | C005 | CQJ | 6838 |
| TN | C005 | CQK | 158 |
| TN | C005 | CQL | 25682 |
| TN | C005 | CQM | 4459 |
| TN | C005 | CQN | 979 |
| TN | C005 | CQP | 1 |
| TN | C005 | CQQ | 50285 |
| TN | C005 | CQR | 37 |
| TN | C005 | CQS | 9 |
| TN | C005 | CY1 | 4042 |
| TN | C005 | CY7 | -146152 |

| | | | |
|---|---|---|---|
| TN | C006 | 463 | 97 |
| TN | C006 | 523 | 4272 |
| TN | C012 | 451 | 7 |
| TN | C012 | 463 | 198049 |
| TN | C012 | 481 | 147302 |
| TN | C012 | 523 | 11582 |
| TN | C012 | 524 | 2943 |
| TN | C012 | 644 | 10 |
| TN | C012 | 710 | -1806 |
| TN | C012 | 780 | 124 |
| TN | C012 | 48D | 215 |
| TN | C012 | 48J | -100 |
| TN | C012 | 59E | 353 |
| TN | C012 | 79A | 250 |
| TN | C012 | CA4 | 330 |
| TN | C012 | CE1 | 3627 |
| TN | C012 | CE2 | 889 |
| TN | C012 | CE3 | 277 |
| TN | C012 | CEA | 1202 |
| TN | C012 | CEB | 273 |
| TN | C012 | CEC | 541 |
| TN | C012 | CJ1 | 556440 |
| TN | C012 | CP1 | 745259 |
| TN | C012 | CP2 | 191161 |
| TN | C012 | CP3 | 25542 |
| TN | C012 | CPA | 54090 |
| TN | C012 | CPB | 12177 |
| TN | C012 | CPC | 19056 |
| TN | C012 | CQ1 | 474318 |
| TN | C012 | CQF | 21663 |
| TN | C012 | CQG | 4361 |
| TN | C012 | CQH | 14548 |
| TN | C012 | CQJ | 198 |
| TN | C012 | CQK | 134 |
| TN | C012 | CQL | 22336 |
| TN | C012 | CQM | 3848 |
| TN | C012 | CQN | 840 |
| TN | C012 | CQP | 0 |
| TN | C012 | CQQ | 37124 |
| TN | C012 | CQR | 27 |
| TN | C012 | CQS | 6 |
| TN | C012 | CY7 | -78011 |
| TN | C022 | 451 | 1869 |
| TN | C022 | 463 | 1468379 |
| TN | C022 | 471 | 37 |
| TN | C022 | 481 | 1224179 |
| TN | C022 | 523 | -5908 |
| TN | C022 | 524 | 29270 |
| TN | C022 | 644 | 79 |
| TN | C022 | 658 | 0 |
| TN | C022 | 710 | -30173 |
| TN | C022 | 780 | 128380 |
| TN | C022 | 899 | 0 |
| TN | C022 | 48D | 12 |
| TN | C022 | 48J | 13835 |
| TN | C022 | 59E | 4085 |
| TN | C022 | 79A | 1298 |
| TN | C022 | CA4 | 11032 |
| TN | C022 | CE1 | 249211 |
| TN | C022 | CE2 | 69275 |
| TN | C022 | CE3 | 29770 |
| TN | C022 | CEA | 91012 |
| TN | C022 | CEB | 19511 |
| TN | C022 | CEC | 48803 |
| TN | C022 | CJ1 | 6757840 |

| | | | |
|---|---|---|---|
| TN | C022 | CP1 | 5387869 |
| TN | C022 | CP2 | 1340975 |
| TN | C022 | CP3 | 186795 |
| TN | C022 | CPA | 403860 |
| TN | C022 | CPB | 92070 |
| TN | C022 | CPC | 140708 |
| TN | C022 | CQ1 | 3490066 |
| TN | C022 | CQF | 224129 |
| TN | C022 | CQG | 45074 |
| TN | C022 | CQH | 145700 |
| TN | C022 | CQJ | 2629 |
| TN | C022 | CQK | 955 |
| TN | C022 | CQL | 159080 |
| TN | C022 | CQM | 27692 |
| TN | C022 | CQN | 6063 |
| TN | C022 | CQP | 2 |
| TN | C022 | CQQ | 295602 |
| TN | C022 | CQR | 253 |
| TN | C022 | CQS | 63 |
| TN | C022 | CY1 | 217559 |
| TN | C022 | CY7 | -275495 |
| TN | C022 | CYA | 452890 |
| TN | C022 | CYB | -67014 |
| TN | C045 | 451 | 502173 |
| TN | C045 | 463 | 5026548 |
| TN | C045 | 464 | 25263 |
| TN | C045 | 471 | 61 |
| TN | C045 | 481 | 18881300 |
| TN | C045 | 523 | 527461 |
| TN | C045 | 524 | 229027 |
| TN | C045 | 584 | 287 |
| TN | C045 | 644 | 57980 |
| TN | C045 | 658 | 0 |
| TN | C045 | 693 | 202 |
| TN | C045 | 710 | -30122 |
| TN | C045 | 768 | 277 |
| TN | C045 | 780 | 115600 |
| TN | C045 | 799 | 5384 |
| TN | C045 | 899 | 0 |
| TN | C045 | 48J | 6156 |
| TN | C045 | 77A | 75 |
| TN | C045 | 79A | 61406 |
| TN | C045 | CA4 | 0 |
| TN | C045 | CE1 | 254926 |
| TN | C045 | CE2 | 69333 |
| TN | C045 | CE3 | 29782 |
| TN | C045 | CEA | 92199 |
| TN | C045 | CEB | 19852 |
| TN | C045 | CEC | 49238 |
| TN | C045 | CJ1 | 7776399 |
| TN | C045 | CJ6 | 864 |
| TN | C045 | CP1 | 3725696 |
| TN | C045 | CP2 | 938478 |
| TN | C045 | CP3 | 128232 |
| TN | C045 | CPA | 272838 |
| TN | C045 | CPB | 61668 |
| TN | C045 | CPC | 95726 |
| TN | C045 | CQ1 | 2397172 |
| TN | C045 | CQF | 300393 |
| TN | C045 | CQG | 58505 |
| TN | C045 | CQH | 174025 |
| TN | C045 | CQJ | 16345 |
| TN | C045 | CQK | 653 |
| TN | C045 | CQL | 110475 |
| TN | C045 | CQM | 19100 |

| | | | |
|---|---|---|---|
| TN | C045 | CQN | 4194 |
| TN | C045 | CQP | 1 |
| TN | C045 | CQQ | 193302 |
| TN | C045 | CQR | 167 |
| TN | C045 | CQS | 41 |
| TN | C045 | CY1 | 317718 |
| TN | C045 | CY7 | -303997 |
| TN | C045 | CYA | 867765 |
| TN | C045 | CYB | -44967 |
| TN | C052 | 463 | 8060 |
| TN | C052 | 481 | 4750 |
| TN | C052 | 523 | 3690 |
| TN | C052 | 524 | 4658 |
| TN | C052 | CE1 | 632 |
| TN | C052 | CE2 | 140 |
| TN | C052 | CE3 | 41 |
| TN | C052 | CEA | 177 |
| TN | C052 | CEB | 42 |
| TN | C052 | CEC | 64 |
| TN | C052 | CJ1 | 56262 |
| TN | C052 | CP1 | 73092 |
| TN | C052 | CP2 | 18165 |
| TN | C052 | CP3 | 2513 |
| TN | C052 | CPA | 5803 |
| TN | C052 | CPB | 1347 |
| TN | C052 | CPC | 1984 |
| TN | C052 | CQ1 | 46541 |
| TN | C052 | CQF | 3549 |
| TN | C052 | CQG | 833 |
| TN | C052 | CQH | 941 |
| TN | C052 | CQK | 9 |
| TN | C052 | CQL | 2021 |
| TN | C052 | CQM | 367 |
| TN | C052 | CQN | 81 |
| TN | C052 | CQP | 0 |
| TN | C052 | CQQ | 3801 |
| TN | C052 | CQR | 12 |
| TN | C052 | CQS | 3 |
| TN | C052 | CY7 | 0 |
| TN | C085 | 451 | 577 |
| TN | C085 | 463 | 118418 |
| TN | C085 | 464 | 0 |
| TN | C085 | 481 | 325789 |
| TN | C085 | 523 | -158730 |
| TN | C085 | 524 | 86552 |
| TN | C085 | 631 | -24188 |
| TN | C085 | 644 | 13 |
| TN | C085 | 658 | 0 |
| TN | C085 | 780 | 56829 |
| TN | C085 | 899 | 0 |
| TN | C085 | 48D | 87 |
| TN | C085 | 79A | 843 |
| TN | C085 | CA4 | -11 |
| TN | C085 | CE1 | 48533 |
| TN | C085 | CE2 | 14012 |
| TN | C085 | CE3 | 6094 |
| TN | C085 | CEA | 17325 |
| TN | C085 | CEB | 3688 |
| TN | C085 | CEC | 9193 |
| TN | C085 | CJ1 | 1845234 |
| TN | C085 | CP1 | 424816 |
| TN | C085 | CP2 | 113499 |
| TN | C085 | CP3 | 14034 |
| TN | C085 | CPA | 32512 |
| TN | C085 | CPB | 7444 |

| | | | |
|---|---|---|---|
| TN | C085 | CPC | 11287 |
| TN | C085 | CQ1 | 273481 |
| TN | C085 | CQF | 46821 |
| TN | C085 | CQG | 8128 |
| TN | C085 | CQH | 34205 |
| TN | C085 | CQJ | 5816 |
| TN | C085 | CQK | 73 |
| TN | C085 | CQL | 12926 |
| TN | C085 | CQM | 2209 |
| TN | C085 | CQN | 482 |
| TN | C085 | CQP | 0 |
| TN | C085 | CQQ | 22201 |
| TN | C085 | CQR | 28 |
| TN | C085 | CQS | 7 |
| TN | C085 | CY1 | 0 |
| TN | C085 | CY7 | -179799 |
| TN | C086 | 463 | 560 |
| TN | C086 | 481 | 0 |
| TN | C086 | 780 | 10 |
| TN | C086 | CP1 | 2766 |
| TN | C086 | CP2 | 695 |
| TN | C086 | CP3 | 99 |
| TN | C086 | CPA | 222 |
| TN | C086 | CPB | 44 |
| TN | C086 | CPC | 82 |
| TN | C086 | CQ1 | 1380 |
| TN | C086 | CQF | 0 |
| TN | C086 | CQG | 3 |
| TN | C086 | CQH | 18 |
| TN | C086 | CQK | 0 |
| TN | C086 | CQL | 27 |
| TN | C086 | CQM | 12 |
| TN | C086 | CQN | 2 |
| TN | C086 | CQP | 0 |
| TN | C086 | CQQ | 34 |
| TN | C248 | 451 | 4 |
| TN | C248 | 463 | 82739 |
| TN | C248 | 481 | 67230 |
| TN | C248 | 523 | 36 |
| TN | C248 | 710 | -175 |
| TN | C248 | 780 | 1922 |
| TN | C248 | 79A | 56 |
| TN | C248 | CA4 | 2356 |
| TN | C248 | CE1 | 1345 |
| TN | C248 | CE2 | 309 |
| TN | C248 | CE3 | 214 |
| TN | C248 | CEA | 579 |
| TN | C248 | CEB | 122 |
| TN | C248 | CEC | 354 |
| TN | C248 | CP1 | 3683157 |
| TN | C248 | CP2 | 867385 |
| TN | C248 | CP3 | 129941 |
| TN | C248 | CPA | 259661 |
| TN | C248 | CPB | 59520 |
| TN | C248 | CPC | 90349 |
| TN | C248 | CQ1 | 2384706 |
| TN | C248 | CQF | 54403 |
| TN | C248 | CQG | 10845 |
| TN | C248 | CQH | 28013 |
| TN | C248 | CQK | 625 |
| TN | C248 | CQL | 112784 |
| TN | C248 | CQM | 18991 |
| TN | C248 | CQN | 4238 |
| TN | C248 | CQP | 3 |
| TN | C248 | CQQ | 208443 |

| | | | |
|---|---|---|---|
| TN | C248 | CQR | 181 |
| TN | C248 | CQS | 46 |
| TN | C248 | CY1 | -5 |
| TN | C248 | CY7 | -688 |
| TN | C445 | 481 | 15 |
| TN | C445 | CY1 | 0 |
| TN | C548 | 463 | 51903 |
| TN | C548 | 481 | 202748 |
| TN | C548 | 523 | 2636 |
| TN | C548 | 780 | 907 |
| TN | C548 | 79A | 35 |
| TN | C548 | CA4 | 2013 |
| TN | C548 | CE1 | 89 |
| TN | C548 | CE2 | 22 |
| TN | C548 | CE3 | 77 |
| TN | C548 | CEA | 23 |
| TN | C548 | CEB | 6 |
| TN | C548 | CEC | 11 |
| TN | C548 | CP1 | 2501063 |
| TN | C548 | CP2 | 587657 |
| TN | C548 | CP3 | 87753 |
| TN | C548 | CPA | 179522 |
| TN | C548 | CPB | 41175 |
| TN | C548 | CPC | 62340 |
| TN | C548 | CQ1 | 1700974 |
| TN | C548 | CQF | 42673 |
| TN | C548 | CQG | 8981 |
| TN | C548 | CQH | 18655 |
| TN | C548 | CQK | 437 |
| TN | C548 | CQL | 75056 |
| TN | C548 | CQM | 12760 |
| TN | C548 | CQN | 2864 |
| TN | C548 | CQP | 2 |
| TN | C548 | CQQ | 139757 |
| TN | C548 | CQR | 134 |
| TN | C548 | CQS | 34 |
| TN | C548 | CY7 | -250 |
| TN | C812 | 463 | 31024 |
| TN | C812 | 481 | 29012 |
| TN | C812 | 523 | 50765 |
| TN | C812 | 524 | 2591 |
| TN | C812 | 780 | 4 |
| TN | C812 | CE1 | 2712 |
| TN | C812 | CE2 | 674 |
| TN | C812 | CE3 | 249 |
| TN | C812 | CEA | 967 |
| TN | C812 | CEB | 208 |
| TN | C812 | CEC | 514 |
| TN | C812 | CJ1 | 69705 |
| TN | C812 | CP1 | 128760 |
| TN | C812 | CP2 | 27844 |
| TN | C812 | CP3 | 4554 |
| TN | C812 | CPA | 8693 |
| TN | C812 | CPB | 1998 |
| TN | C812 | CPC | 3015 |
| TN | C812 | CQ1 | 83431 |
| TN | C812 | CQF | 2835 |
| TN | C812 | CQG | 508 |
| TN | C812 | CQH | 2373 |
| TN | C812 | CQJ | 9 |
| TN | C812 | CQK | 22 |
| TN | C812 | CQL | 4054 |
| TN | C812 | CQM | 647 |
| TN | C812 | CQN | 151 |
| TN | C812 | CQP | 0 |

| | | | |
|---|---|---|---|
| TN | C812 | CQQ | 6759 |
| TN | C812 | CQR | 3 |
| TN | C812 | CQS | 1 |
| TN | C812 | CY7 | -2002 |
| TN | C822 | 451 | 5982 |
| TN | C822 | 463 | 267296 |
| TN | C822 | 464 | 38 |
| TN | C822 | 481 | 257902 |
| TN | C822 | 523 | 33738 |
| TN | C822 | 524 | 78444 |
| TN | C822 | 631 | -4157 |
| TN | C822 | 644 | 272 |
| TN | C822 | 658 | 0 |
| TN | C822 | 710 | -18010 |
| TN | C822 | 780 | 144167 |
| TN | C822 | 899 | 0 |
| TN | C822 | 48D | 5 |
| TN | C822 | 48J | 1610 |
| TN | C822 | 59E | 2017 |
| TN | C822 | 79A | 2088 |
| TN | C822 | CA4 | -3712 |
| TN | C822 | CE1 | 66332 |
| TN | C822 | CE2 | 19471 |
| TN | C822 | CE3 | 8738 |
| TN | C822 | CEA | 23784 |
| TN | C822 | CEB | 5060 |
| TN | C822 | CEC | 12648 |
| TN | C822 | CJ1 | 2559116 |
| TN | C822 | CP1 | 908370 |
| TN | C822 | CP2 | 226505 |
| TN | C822 | CP3 | 31169 |
| TN | C822 | CPA | 61322 |
| TN | C822 | CPB | 13581 |
| TN | C822 | CPC | 21937 |
| TN | C822 | CQ1 | 559985 |
| TN | C822 | CQF | 50706 |
| TN | C822 | CQG | 8884 |
| TN | C822 | CQH | 56861 |
| TN | C822 | CQJ | 3824 |
| TN | C822 | CQK | 159 |
| TN | C822 | CQL | 27795 |
| TN | C822 | CQM | 4647 |
| TN | C822 | CQN | 1037 |
| TN | C822 | CQP | 1 |
| TN | C822 | CQQ | 42341 |
| TN | C822 | CQR | 29 |
| TN | C822 | CQS | 7 |
| TN | C822 | CY1 | 0 |
| TN | C822 | CY7 | -17925 |
| TN | C845 | 451 | 62209 |
| TN | C845 | 463 | 767711 |
| TN | C845 | 464 | 906 |
| TN | C845 | 471 | 24 |
| TN | C845 | 481 | 2295464 |
| TN | C845 | 523 | 356054 |
| TN | C845 | 524 | 176444 |
| TN | C845 | 644 | 1858 |
| TN | C845 | 658 | 0 |
| TN | C845 | 710 | -21797 |
| TN | C845 | 768 | 200 |
| TN | C845 | 780 | 62113 |
| TN | C845 | 799 | 1620 |
| TN | C845 | 899 | 0 |
| TN | C845 | 48D | 16 |
| TN | C845 | 48J | -75 |

| | | | |
|---|---|---|---|
| TN | C845 | 59H | 400 |
| TN | C845 | 79A | 9132 |
| TN | C845 | CA4 | -1529 |
| TN | C845 | CE1 | 17569 |
| TN | C845 | CE2 | 4879 |
| TN | C845 | CE3 | 2739 |
| TN | C845 | CEA | 5748 |
| TN | C845 | CEB | 1231 |
| TN | C845 | CEC | 3062 |
| TN | C845 | CJ1 | 1472310 |
| TN | C845 | CP1 | 748596 |
| TN | C845 | CP2 | 178963 |
| TN | C845 | CP3 | 25987 |
| TN | C845 | CPA | 53848 |
| TN | C845 | CPB | 12320 |
| TN | C845 | CPC | 18724 |
| TN | C845 | CQ1 | 485273 |
| TN | C845 | CQF | 42769 |
| TN | C845 | CQG | 7315 |
| TN | C845 | CQH | 35151 |
| TN | C845 | CQJ | 1054 |
| TN | C845 | CQK | 135 |
| TN | C845 | CQL | 21952 |
| TN | C845 | CQM | 3793 |
| TN | C845 | CQN | 851 |
| TN | C845 | CQP | 0 |
| TN | C845 | CQQ | 39180 |
| TN | C845 | CQR | 47 |
| TN | C845 | CQS | 12 |
| TN | C845 | CY1 | 0 |
| TN | C845 | CY7 | -13355 |
| TN | C845 | CYA | 58111 |
| TN | C852 | 463 | 281 |
| TN | C852 | 481 | 278 |
| TN | C852 | CE1 | 74 |
| TN | C852 | CE2 | 17 |
| TN | C852 | CE3 | 5 |
| TN | C852 | CEA | 21 |
| TN | C852 | CEB | 5 |
| TN | C852 | CEC | 8 |
| TN | C852 | CJ1 | 109 |
| TN | C852 | CP1 | 1239 |
| TN | C852 | CP2 | 300 |
| TN | C852 | CP3 | 43 |
| TN | C852 | CPA | 106 |
| TN | C852 | CPB | 23 |
| TN | C852 | CPC | 37 |
| TN | C852 | CQ1 | 1246 |
| TN | C852 | CQF | 42 |
| TN | C852 | CQG | 10 |
| TN | C852 | CQH | 11 |
| TN | C852 | CQK | 0 |
| TN | C852 | CQL | 28 |
| TN | C852 | CQM | 6 |
| TN | C852 | CQN | 1 |
| TN | C852 | CQQ | 40 |

(F1) Help (F3) Previous (f)ind (n)ext #page (p)rint (s)end

| Line | Description | Source | C057 | C067 | C077 | C117 | C157 | C167 | C257 | C357 | C377 | COE TOTAL | 67C 167C | DIGITAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Plug-In Material | File 542 | 111,647 | 0 | 192,621 | 428,008 | 456,357 | 0 | 24,195,159 | 27,906,174 | 51,648,791 | 104,938,757 | 0 | 104,206,482 |
| 2 | Hardwire Material | File 542 | 19,664 | 0 | 881,063 | 285,001 | 0 | 5,441 | 17,957,997 | 6,592,672 | 7,820,460 | 33,562,297 | 5,441 | 32,371,128 |
| 3 | Plug-In Total Installed | File 542 | 154,721 | 0 | 214,294 | 456,291 | 529,802 | 0 | 27,793,319 | 31,330,882 | 55,568,096 | 116,047,405 | 0 | 115,222,099 |
| 4 | Hardwire Total Installed | File 542 | 48,609 | 0 | 1,650,943 | 1,115,895 | 603 | 29,781 | 37,934,019 | 26,911,432 | 29,253,805 | 96,945,087 | 29,781 | 94,099,859 |
| 5 | State Sales Tax Rate | Corp. Tax Office | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% |
| 6 | Plug-In Material Less Sales Tax | Ln1/ (1+Ln 5) | 106,331 | 0 | 183,448 | 407,627 | 434,626 | 0 | 23,043,009 | 26,577,309 | 49,189,324 | 99,941,674 | 0 | 99,244,268 |
| 7 | HW Material Less Sales Tax | Ln2 / (1+Ln 5) | 18,727 | 0 | 839,108 | 271,429 | 0 | 5,182 | 17,102,854 | 6,278,735 | 7,448,057 | 31,964,093 | 5,182 | 30,829,646 |
| 8 | Calculated Plug-In Factor | Ln3 / Ln6 | 1.455087 | 0.000000 | 1.168147 | 1.119385 | 1.218984 | 0.000000 | 1.206150 | 1.178858 | 1.129678 | 1.161151 | 0.000000 | 1.160995 |
| 9 | Calculated HW Factor | Ln4 / Ln7 | 2.595585 | 0.000000 | 1.967498 | 4.111185 | 0.000000 | 5.746719 | 2.217994 | 4.286123 | 3.927710 | 3.032937 | 5.746719 | 3.052252 |
| 10 | Surrogate Plug-In Factor | Digital / Analog | 1.033163 | 1.561150 | 1.617028 | 1.102826 | 1.160995 | 1.561150 | 1.160995 | 1.160995 | 1.160995 | 1.160995 | 1.160995 | 1.160995 |
| 11 | Surrogate Hardwire Factor | Digital / Analog | 2.195729 | 7.731814 | 2.126224 | 7.809966 | 3.052252 | 7.731814 | 3.052252 | 3.052252 | 3.052252 | 3.052252 | 3.052252 | 3.052252 |
| 12 | **Plug-In Factor - Used** | **Note 1** | **1.033163** | **1.561150** | **1.617028** | **1.102826** | **1.218984** | **1.561150** | **1.206150** | **1.178858** | **1.129678** | **1.161151** | **1.160995** | **1.160995** |
| 13 | **Hardwire Factor - Used** | **Note 1** | **2.195729** | **7.731814** | **2.126224** | **7.809966** | **3.052252** | **7.731814** | **2.217994** | **4.286123** | **3.927710** | **3.032937** | **3.052252** | **3.052252** |

**NOTES:**

1 Composite state factors for digital (157C, 257C, 357C & 377C) FRC's are calculated and used as surrogate factors where less than $100,000 of total in-place investment or less than $50,000 of total material investment was added. Regional composite factors are always used for each of the analog accounts in each state (57C, 67C/167C, 77C, & 117C).

000146

| Line | Description | Source | C057 | C067 | C077 | C117 | C157 | C167 | C257 | C357 | C377 | COE TOTAL | 67C 167C | DIGITAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Plug-In Material | File 542 | 4,446,506 | 90,151 | 4,079,036 | 5,328,274 | 3,082,676 | 0 | 221,287,448 | 280,523,715 | 449,730,747 | 968,568,553 | 90,151 | 954,624,586 |
| 2 | Hardwire Material | File 542 | 2,641,977 | 90,168 | 18,588,736 | 1,583,049 | 1,504 | 17,594 | 135,968,832 | 62,820,069 | 91,098,254 | 312,808,184 | 107,762 | 289,886,659 |
| 3 | Plug-In Total Installed | File 542 | 4,375,203 | 134,037 | 6,281,825 | 5,596,342 | 3,721,069 | 0 | 247,712,025 | 311,834,161 | 484,451,476 | 1,064,106,139 | 134,037 | 1,047,718,732 |
| 4 | Hardwire Total Installed | File 542 | 5,524,824 | 688,007 | 37,641,734 | 11,774,820 | 54,185 | 105,514 | 325,882,755 | 217,074,621 | 304,276,159 | 903,022,621 | 793,521 | 847,287,721 |
| 5 | State Sales Tax Rate | Corp. Tax Office | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% |
| 6 | Plug-In Material Less Sales Tax | Ln1/ (1+Ln 5) | 4,234,768 | 85,858 | 3,884,796 | 5,074,547 | 2,935,882 | 0 | 210,749,950 | 267,165,443 | 428,314,997 | 922,446,241 | 85,858 | 909,166,273 |
| 7 | HW Material Less Sales Tax | Ln2 / (1+Ln 5) | 2,516,169 | 85,874 | 17,703,558 | 1,507,666 | 1,433 | 16,756 | 129,494,126 | 59,828,637 | 86,758,337 | 297,912,556 | 102,631 | 276,082,533 |
| 8 | Calculated Plug-In Factor | Ln3 / Ln6 | 1.033163 | 1.561150 | 1.617028 | 1.102826 | 1.267445 | 0.000000 | 1.175384 | 1.167195 | 1.131064 | 1.153570 | 1.561150 | 1.152395 |
| 9 | Calculated HW Factor | Ln4 / Ln7 | 2.195729 | 8.011784 | 2.126224 | 7.809966 | 37.820144 | 6.296987 | 2.516583 | 3.628273 | 3.507169 | 3.031167 | 7.731814 | 3.068965 |
| 10 | Surrogate Plug-In Factor | Digital / Analog | 1.033163 | 1.561150 | 1.617028 | 1.102826 | 1.152395 | 1.561150 | 1.152395 | 1.152395 | 1.152395 | 1.152395 | 1.152395 | 1.152395 |
| 11 | Surrogate Hardwire Factor | Digital / Analog | 2.195729 | 7.731814 | 2.126224 | 7.809966 | 3.068965 | 7.731814 | 3.068965 | 3.068965 | 3.068965 | 3.068965 | 3.068965 | 3.068965 |
| 12 | **Plug-In Factor - Used** | **Note 1** | **1.033163** | **1.561150** | **1.617028** | **1.102826** | **1.267445** | **1.561150** | **1.175384** | **1.167195** | **1.131064** | **1.153570** | **1.561150** | **1.152395** |
| 13 | **Hardwire Factor - Used** | **Note 1** | **2.195729** | **7.731814** | **2.126224** | **7.809966** | **3.068965** | **7.731814** | **2.516583** | **3.628273** | **3.507169** | **3.031167** | **7.731814** | **3.068965** |

**NOTES:**

1 Composite factors for digital (157C, 257C, 357C & 377C) FRC's are calculated and used as surrogate factors where less than $100,000 of total in-place investment or less than $50,000 of total material investment was added. Regional composite factors are always used for each of the analog accounts in each state (67C, 67C/167C, 77C, & 117C).

0001447

| | | PLUGIN | HARDWIRE |
|---|---|---|---|
| TN | C057 | 1.033163 | 2.195729 |
| TN | C067 | 1.561150 | 7.731814 |
| TN | C077 | 1.617028 | 2.126224 |
| TN | C117 | 1.102826 | 7.809966 |
| TN | C157 | 1.218984 | 3.052252 |
| TN | C167 | 1.561150 | 7.731814 |
| TN | C257 | 1.206150 | 2.217994 |
| TN | C357 | 1.178858 | 4.286123 |
| TN | C377 | 1.129678 | 3.927710 |
| | | | |
| BS | C057 | 1.033163 | 2.195729 |
| BS | C067 | 1.561150 | 7.731814 |
| BS | C077 | 1.617028 | 2.126224 |
| BS | C117 | 1.102826 | 7.809966 |
| BS | C157 | 1.267445 | 3.068965 |
| BS | C167 | 1.561150 | 7.731814 |
| BS | C257 | 1.175384 | 2.516583 |
| BS | C357 | 1.167195 | 3.628273 |
| BS | C377 | 1.131064 | 3.507169 |

| STUDY AREA | FRC | 1998 ONLY PLUG MTL | 1998 ONLY PLUG INPLACE |
|---|---|---|---|
| TN | 57C | $111,647.40 | $154,720.60 |
| TN | 77C | $192,620.55 | $214,294.32 |
| TN | 117C | $428,007.85 | $456,291.02 |
| TN | 157C | $456,357.36 | $529,802.26 |
| TN | 167C | $0.00 | $0.00 |
| TN | 257C | $24,195,159.13 | $27,793,318.65 |
| TN | 357C | $27,906,174.37 | $31,330,882.24 |
| TN | 377C | $51,648,790.65 | $55,568,095.73 |

| STUDY AREA | FRC | 1998 ONLY HWD MTL | 1998 ONLY HWD INPLACE | Provisional Fac |
|---|---|---|---|---|
| TN | 57C | $19,663.78 | $48,608.59 | 2.471986 |
| TN | 77C | $881,063.37 | $1,650,943.21 | 1.873808 |
| TN | 117C | $285,000.55 | $1,115,895.28 | 3.915414 |
| TN | 157C | $0.00 | $603.34 | #DIV/0! |
| TN | 167C | $5,441.40 | $29,781.14 | 5.473066 |
| TN | 257C | $17,957,996.50 | $37,934,018.59 | 2.112375 |
| TN | 357C | $6,592,671.89 | $26,911,431.57 | 4.082022 |
| TN | 377C | $7,820,459.79 | $29,253,805.39 | 3.740676 |

| REG ENTITY | ASSET CAT | DESCRIPTION | COMAP TOTAL (a) | TOTAL 9C0 (b) | TOTAL 9D0 © | POWER ONLY (d) | CALCULATED 1998 SE&P LOADINGS TOTAL SE&P )=(b+c)/(a-b-c)+(f)=d/(a-b-c)+1 (e) | CALCULATED 1998 SE&P LOADINGS POWER ONLY (f) | CALCULATED 1998 SE&P LOADINGS SE ONLY )=(b+c-d)/(a-b-c)+1 (g) | USED 1998 SE&P LOADINGS TOTAL SE&P h | USED 1998 SE&P LOADINGS POWER ONLY i | USED 1998 SE&P LOADINGS SE ONLY j |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TN | 057 | ANALOG CKT | 58,742,417 | 2,469,879 | 654,069 | 2,025,364 | 1 056167 | 1 036415 | 1 019752 | 1 056167 | 1 036415 | 1 019752 |
| TN | 067 | RADIO | 1,896,466 | 133,439 | 83,932 | 2,004 | 1 129457 | 1 001193 | 1 128264 | 1.129457 | 1.052767 | 1.128264 |
| TN | 077 | ANALOG SW | 66,547,405 | 4,270,154 | 0 | 2,676,444 | 1 068567 | 1 042976 | 1 025591 | 1 068567 | 1 042976 | 1 025591 |
| TN | 117 | OPERATOR SYSTEMS | 18,910,689 | 3,469,490 | 0 | 2,516,398 | 1 224690 | 1 162967 | 1 061724 | 1 22469 | 1 162967 | 1 061724 |
| TN | 157 | DDS | 14,355,769 | 27,280 | 0 | 18,614 | 1 001904 | 1 001299 | 1 000605 | 1 067771 | 1 052767 | 1 015004 |
| TN | 167 | RADIO | 49,588 | 29,781 | 0 | 29,781 | 2 503615 | 2 503615 | 1 000000 | 1.067771 | 1.052767 | 1.015004 |
| TN | 257 | DIGITAL PAIR GAIN | 661,596,801 | 17,494,068 | 143,180 | 16,137,220 | 1 027389 | 1 025059 | 1 002329 | 1 027389 | 1 025059 | 1 015004 |
| TN | 357 | DIGITAL OTHER | 550,549,283 | 18,427,518 | 4,480,713 | 13,683,185 | 1 043416 | 1 025933 | 1 017484 | 1 043416 | 1 025933 | 1 017484 |
| TN | 377 | DIGITAL SW | 901,235,123 | 92,637,604 | 434 | 75,280,883 | 1 114566 | 1 093101 | 1 021466 | 1 114566 | 1 093101 | 1 021466 |
| TN | COMP | COMPOSITE | 2,273,883,541 | 138,959,212 | 5,362,328 | 112,369,894 | 1 067771 | 1 052767 | 1 015004 | 1 067771 | 1 052767 | 1 015004 |
| BS | 057 | ANALOG CKT | 480,258,870 | 11,510,004 | 9,519,169 | 6,454,678 | 1 045792 | 1 014055 | 1 031737 | 1 045792 | 1 014055 | 1 031737 |
| BS | 067 | RADIO | 68,594,338 | 5,322,695 | 2,207,323 | 3,745,601 | 1 123313 | 1 061339 | 1 061974 | 1.123313 | 1.061339 | 1.061974 |
| BS | 077 | ANALOG SW | 1,159,562,576 | 94,972,164 | 14,174 | 56,472,312 | 1 089225 | 1 053047 | 1 036178 | 1 089225 | 1 053047 | 1 036178 |
| BS | 117 | OPERATOR SYSTEMS | 147,813,785 | 11,172,831 | 0 | 7,410,046 | 1 081768 | 1 054230 | 1 027538 | 1.081768 | 1 05423 | 1 027538 |
| BS | 157 | DDS | 95,605,925 | 210,612 | 57,641 | 34,389 | 1 002814 | 1 000361 | 1 002453 | 1.06887 | 1.05086 | 1 01801 |
| BS | 167 | RADIO | 5,594,579 | 183,136 | 269,032 | 156,362 | 1 087929 | 1 030406 | 1 057523 | 1.087929 | 1.030406 | 1.057523 |
| BS | 257 | DIGITAL PAIR GAIN | 5,869,772,966 | 170,405,030 | 612,697 | 153,334,310 | 1 030010 | 1 026907 | 1 003103 | 1 03001 | 1 026907 | 1 01801 |
| BS | 357 | DIGITAL OTHER | 4,527,964,174 | 184,157,233 | 53,736,717 | 137,499,394 | 1 055453 | 1 032051 | 1 023402 | 1 055453 | 1 032051 | 1 023402 |
| BS | 377 | DIGITAL SW | 7,836,436,423 | 743,756,215 | 3,994 | 586,146,136 | 1 107906 | 1 085039 | 1 022867 | 1.107906 | 1 085039 | 1 022867 |
| BS | 457 | ANALOG PAIR GAIN | 43,499 | 0 | 0 | 0 | 1 000000 | 1 000000 | 1 000000 | 1 06887 | 1 05086 | 1 01801 |
| BS | COMP | COMPOSITE | 19,991,649,134 | 1,221,689,920 | 66,422,747 | 951,253,230 | 1 066870 | 1 050860 | 1 016010 | 1.06887 | 1 05086 | 1 01801 |

**COMBINATION 67C & 167 C CALCULATIONS**

| ENTITY | CAT | DESCRIPTION | TOTAL (a) | 9C0 (b) | 9D0 © | ONLY (d) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TN | 067 | RADIO | 1,896,466 | 133,439 | 83,932 | 2,004 | | | | | | |
| TN | 167 | RADIO | 49,588 | 29,781 | 0 | 29,781 | | | | | | |
| TN | 67/167 | RADIO | 1,946,054 | 163,220 | 83,932 | 31,785 | 1.145478 | 1 018709 | 1 126768 | 1 145478 | 1 018709 | 1 126768 |
| BS | 67/167 | RADIO | 74,188,916 | 5,505,830 | 2,476,355 | 3,901,963 | 1 120565 | 1 058936 | 1 061629 | 1 120565 | 1 058936 | 1 061629 |

000151

| STATE | FRC | TOTAL SE&P | POWER ONLY | SE ONLY |
|---|---|---|---|---|
| TN | 77C | 1.068567 | 1.042976 | 1.025591 |
| TN | 377C | 1.114566 | 1.093101 | 1.021466 |
| TN | 377CP | 1.114566 | 1.093101 | 1.021466 |
| TN | 117C | 1.224690 | 1.162967 | 1.061724 |
| TN | 67C | 1.145478 | 1.018709 | 1.126768 |
| TN | 157C | 1.067771 | 1.052767 | 1.015004 |
| TN | 257C | 1.027389 | 1.025059 | 1.015004 |
| TN | 357C | 1.043416 | 1.025933 | 1.017484 |
| TN | 457C | 1.067771 | 1.052767 | 1.015004 |
| TN | 57C | 1.056167 | 1.036415 | 1.019752 |
| BS | 77C | 1.089225 | 1.053047 | 1.036178 |
| BS | 377C | 1.107906 | 1.085039 | 1.022867 |
| BS | 377CP | 1.107906 | 1.085039 | 1.022867 |
| BS | 117C | 1.081768 | 1.054230 | 1.027538 |
| BS | 67C | 1.120565 | 1.058936 | 1.061629 |
| BS | 157C | 1.068870 | 1.050860 | 1.018010 |
| BS | 257C | 1.030010 | 1.026907 | 1.018010 |
| BS | 357C | 1.055453 | 1.032051 | 1.023402 |
| BS | 457C | 1.068870 | 1.050860 | 1.018010 |
| BS | 57C | 1.045792 | 1.014055 | 1.031737 |

000152

# Calculation of Plant Specific Expense to Investment Ratios

**Forward Looking Studies - 2000-2002**

**Tennessee**

| Line | SCALE=000 / DESCRIPTION | Account FRC | LAND 2111 | BUILDINGS - COE 2121 | GEN PRPSE COMPUTERS 2124 | ANALOG SWITCH 2211 | DIGITAL SWITCH 2212 | DIGITAL SWITCH 2212 | OPERATOR SYSTEMS 2220 | RADIO 2231 | DIGITAL DATA SYSTEMS 2232 | DIGTL CIRC-PAIR GAIN 2232 | DIGTL CIRC-OTHER 2232 | ANALOG CIRC 2232 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ALL | ALL | LESS 633 | 77C | 377C, 587C | "377CP" | 117C | 67C, 167C | 157C | 7F257C | 357 | 57C, 457C |
| 1 | MR Book Investment 1999 EOY | Reg Investments | 10,662 | 245,990 | 159,852 | 66,573 | 881,118 | 881,118 | 18,897 | 1,961 | 14,382 | 658,732 | 541,595 | 58,017 |
| 2 | MR Book Investment 1999 EOY | Ln1+ 1999 Additions | 10,062 | 258,017 | 160,475 | 66,309 | 958,494 | 958,494 | 19,490 | 1,808 | 14,582 | 721,309 | 570,013 | 57,669 |
| 3 | 2000 Additions | Construction Budget | 0 | 11,874 | 132 | -277 | 62,556 | 62,556 | 747 | -174 | 68 | 56,853 | 28,296 | 1,268 |
| 4 | Investment 2000 EOY | Ln2 + Ln3 | 10,062 | 269,891 | 160,607 | 66,032 | 1,021,050 | 1,021,050 | 20,237 | 1,634 | 14,650 | 778,163 | 598,309 | 58,400 |
| 5 | 2001 Additions | Construction Budget | 0 | 12,864 | 142 | -65 | 14,968 | 14,968 | 768 | -174 | 68 | 56,498 | 28,265 | 1,267 |
| 6 | Investment 2001 EOY | Ln4 + Ln5 | 10,062 | 282,754 | 160,749 | 65,967 | 1,036,019 | 1,036,019 | 21,005 | 1,460 | 14,718 | 834,661 | 626,574 | 59,133 |
| 7 | 2002 Additions | Construction Budget | 0 | 12,855 | -2,582 | -8,085 | 71,134 | 71,134 | 485 | -177 | 69 | 54,786 | 28,820 | 1,292 |
| 8 | Investment 2002 EOY | Ln6 + Ln7 | 10,062 | 295,609 | 158,167 | 57,882 | 1,107,153 | 1,107,153 | 21,490 | 1,283 | 14,787 | 889,447 | 655,394 | 59,841 |
| 9 | Average Investment 1999 | (Ln1 + Ln2)/2 | 10,362 | 252,003 | 160,163 | 66,441 | 919,806 | 919,806 | 19,194 | 1,884 | 14,482 | 690,021 | 555,804 | 58,253 |
| 10 | Average Investment 2000 | (Ln2 + Ln4)/2 | 10,062 | 263,954 | 160,541 | 66,170 | 989,772 | 989,772 | 19,864 | 1,721 | 14,616 | 749,736 | 584,161 | 57,034 |
| 11 | Average Investment 2001 | (Ln4 + Ln6)/2 | 10,062 | 276,323 | 160,678 | 65,999 | 1,028,534 | 1,028,534 | 20,621 | 1,547 | 14,684 | 806,412 | 612,442 | 55,767 |
| 12 | Average Investment 2002 | (Ln6 + Ln8)/2 | 10,062 | 289,182 | 159,458 | 61,924 | 1,071,586 | 1,071,586 | 21,247 | 1,371 | 14,752 | 862,054 | 640,984 | 54,487 |
| 13 | Curr Cost / Book Cost | Capital Recovery | 1.991 | 1.991 | 0.589 | 1.555 | 1.105 | 1.105 | 1.089 | 1.361 | 0.946 | 1.001 | 1.001 | 1.001 |
| 14 | 1999 Curr Average Investment | Ln13 * Ln9 | 20,630 | 501,738 | 94,336 | 103,316 | 1,016,386 | 1,016,386 | 20,902 | 2,564 | 13,700 | 690,711 | 556,360 | 58,111 |
| 15 | 2000 Curr Average Investment | Ln14 + (Ln10 - Ln9) | 20,330 | 513,689 | 94,714 | 103,045 | 1,086,352 | 1,086,352 | 21,572 | 2,401 | 13,834 | 750,426 | 584,717 | 57,093 |
| 16 | 2001 Curr Average Investment | Ln15 + (Ln11 - Ln10) | 20,330 | 526,058 | 94,851 | 102,874 | 1,125,114 | 1,125,114 | 22,329 | 2,227 | 13,902 | 807,102 | 612,997 | 55,825 |
| 17 | 2002 Curr Average Investment | Ln16 + (Ln12 - Ln11) | 20,330 | 538,917 | 93,631 | 98,799 | 1,168,165 | 1,168,165 | 22,956 | 2,051 | 13,970 | 862,744 | 641,540 | 54,545 |
| 18 | 2000-2002 Curr Avg Investment | (Ln15+Ln16+Ln17)/3 | 20,330 | 526,221 | 94,399 | 101,573 | 1,126,544 | 1,126,544 | 22,286 | 2,226 | 13,902 | 806,757 | 613,085 | 55,821 |
| 19 | **Expense Account - Lev A** | | — | 6121 | 6124 | 6211 | 6212 | 6212 | 6220 | 6231 | 6232 | 6232 | 6232 | 6232 |
| 20 | Expense - 1999 Actual | Reg Expenses | 0 | 35,361 | 22,108 | 2,650 | 31,575 | 31,575 | 2,234 | 19 | 235 | 11,104 | 8,682 | 625 |
| 21 | Service Order Adjustment | Service Order Study | | | | 245 | 4,978 | 4,978 | 0 | 0 | 0 | 21 | 1,488 | 4 |
| 22 | SoftCap Adjustment | Software Capitalization | | | | | | | | | | | | |
| 23 | Rental Revenue/Expense | MR Ledger | | | | | | | | | | | | |
| 24 | Adjusted Expn, Lev A - 1999 | Ln20-Ln21-Ln22-Ln23 | 0 | 35,361 | 22,108 | 2,404 | 26,597 | 26,597 | 2,234 | 19 | 235 | 11,083 | 7,194 | 621 |
| 25 | **Expense Account - Lev B** | | 6110 | 6120 | 6120 | 6210 | 6210 | 6210 | 6220 | 6230 | 6230 | 6230 | 6230 | 6230 |
| 26 | Expense - 1999 Actual (Note 4) | Reg Expenses | 756 | 61,680 | 61,680 | 34,225 | 34,225 | 34,225 | 2,234 | 20,556 | 20,556 | 20,556 | 20,556 | 20,556 |
| 27 | Ratio: Lev A / Lev B | Ln24 / Ln26 | 0.0000 | 0.5733 | 0.3584 | 0.0703 | 0.7771 | 0.7771 | 1.0000 | 0.0009 | 0.0114 | 0.5392 | 0.3500 | 0.0302 |
| 28 | Level B Account | | Network Support | General Support | General Support | COE | COE | COE | COE | COE | COE | COE | COE | COE |
| 29 | Average Exp - Lev B (2000-2002) | Regulatory Forecast | 836 | 68,115 | 68,115 | 37,676 | 37,676 | 37,676 | 2,459 | 22,629 | 22,629 | 22,629 | 22,629 | 22,629 |
| 30 | Average Exp - Lev A (2000-2002) | Ln27 * Ln 29 | 0 | 39,050 | 24,414 | 2,647 | 29,279 | 29,279 | 2,459 | 21 | 259 | 12,201 | 7,920 | 681 |
| 31 | Adj Ratio Oper Expense / Invest. | Ln30 / Ln18 | 0.000000 | 0.074208 | 0.258627 | 0.026060 | 0.025990 | 0.025990 | 0.110340 | 0.009432 | 0.018630 | 0.015124 | 0.012918 | 0.012236 |
| 32 | COE Power/Expense | Account 6531 | — | — | — | 6,090 | 6,090 | — | 6,090 | 6,090 | 6,090 | 6,090 | 6,090 | 6,090 |
| 33 | COE Power Factor | n 32 / Ln 15 (Total COE) | — | — | — | 0.002325 | 0.002325 | --- | 0.002325 | 0.002325 | 0.002325 | 0.002325 | 0.002325 | 0.002325 |
| 34 | Plant Specific Factor - Calculated | Ln31 + Ln33 | 0.000000 | 0.074208 | 0.258627 | 0.028385 | 0.028315 | 0.025990 | 0.112665 | 0.011757 | 0.020955 | 0.017448 | 0.015243 | 0.014560 |
| 35 | Plant Specific Factor - Surrogate | Regional BS Factor | 0.000000 | 0.052094 | 0.336379 | 0.028484 | 0.024870 | 0.022603 | 0.067381 | 0.130746 | 0.028699 | 0.016322 | 0.014368 | 0.009479 |
| 36 | Plant Specific Factor - Used | Note 3 | 0.000000 | 0.074208 | 0.336379 | 0.028385 | 0.028315 | 0.025990 | 0.112665 | 0.011757 | 0.020955 | 0.017448 | 0.015243 | 0.014560 |

**NOTES:**

1. For Pole and Conduit "C" factors, use Acct 5240 Rental Revenues. For the "CP" factors, use the appropriate 6000 Operating Rent expense figure.
2. The General Purpose Computer expense factor is calculated on both a regional and state basis. However, only the regional factor is used.
3. The regional expense factor is used whenever the current investment base falls below $1,000,000 or the historic expenses are deemed unreliable.
4. Summed Lev B actual expenses have been adjusted by a contra entry (in red on "MR Reg EXP98" tab) to remove software RTU expenses which are capitalized in the 2000-2002 View.

| STRUCTURES LOADING FACTORS: | SOURCE | FACTORS |
|---|---|---|

0001531

# Calculation of Plant Specific Expense to Investment Ratios

**Forward Looking Studies - 1998-2000**

## Tennessee

| Line | SCALE=000 DESCRIPTION | Account FRC | POLES 2411 1C | POLES 2411 "1CP" | AER CA - METAL 2421 22C, 12C | AER CA - FIBER 2421 822C, 812C,D22C, | U.G. CA - METAL 2422 5C | U.G. CA - FIBER 2422 88C,D9C,F8C,T 9C | BUR CA - METAL 2423 48C | BUR CA - FIBER 2423 845C, D48C, F48C, T48C | SUB CA - METAL 2424 6C | SUB CA - FIBER 2424 86C,D6C,F6C | INTRBLD-METAL 2426 52C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MR Book Investment 1998 EOY | Reg Investments | 138,221 | 138,221 | 627,327 | 73,384 | 228,060 | 61,084 | 833,643 | 49,362 | 1,091 | 125 | 19,930 |
| 2 | MR Book Investment 1999 EOY | Ln1+ 1999 Additions | 143,841 | 143,841 | 627,327 | 73,384 | 228,060 | 61,084 | 833,643 | 49,362 | 1,091 | 125 | 19,930 |
| 3 | 2000 Additions | Construction Budget | 5,567 | 5,567 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Investment 2000 EOY | Ln2 + Ln3 | 149,408 | 149,408 | 627,327 | 73,384 | 228,060 | 61,084 | 833,643 | 49,362 | 1,091 | 125 | 19,930 |
| 5 | 2001 Additions | Construction Budget | 5,567 | 5,567 | 23,193 | 1,166 | 2,716 | 840 | 47,341 | 15,084 | -6 | -2 | -75 |
| 6 | Investment 2001 EOY | Ln4 + Ln5 | 154,975 | 154,975 | 650,520 | 74,551 | 230,776 | 61,924 | 880,984 | 64,446 | 1,085 | 123 | 19,856 |
| 7 | 2002 Additions | Construction Budget | 5,421 | 5,421 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Investment 2002 EOY | Ln6 + Ln7 | 160,396 | 160,396 | 650,520 | 74,551 | 230,776 | 61,924 | 880,984 | 64,446 | 1,085 | 123 | 19,856 |
| 9 | Average Investment 1999 | (Ln1 + Ln2)/2 | 141,031 | 141,031 | 627,327 | 73,384 | 228,060 | 61,084 | 833,643 | 49,362 | 1,091 | 125 | 19,930 |
| 10 | Average Investment 2000 | (Ln2 + Ln4)/2 | 146,625 | 146,625 | 627,327 | 73,384 | 228,060 | 61,084 | 833,643 | 49,362 | 1,091 | 125 | 19,930 |
| 11 | Average Investment 2001 | (Ln4 + Ln6)/2 | 152,192 | 152,192 | 638,924 | 73,967 | 229,418 | 61,504 | 857,314 | 56,904 | 1,088 | 124 | 19,893 |
| 12 | Average Investment 2002 | (Ln6 + Ln8)/2 | 157,685 | 157,685 | 650,520 | 74,551 | 230,776 | 61,924 | 880,984 | 64,446 | 1,085 | 123 | 19,856 |
| 13 | Curr Cost / Book Cost | Capital Recovery | 2.520 | 2.520 | 1.599 | 0.922 | 1.640 | 0.847 | 1.446 | 0.984 | 1.484 | 1.484 | 1.392 |
| 14 | 1999 Curr Average Investment | Ln13 * Ln9 | 355,398 | 355,398 | 1,003,096 | 67,660 | 374,019 | 51,738 | 1,205,448 | 48,572 | 1,619 | 186 | 27,743 |
| 15 | 2000 Curr Average Investment | Ln14 + (Ln10 - Ln9) | 360,991 | 360,991 | 1,003,096 | 67,660 | 374,019 | 51,738 | 1,205,448 | 48,572 | 1,619 | 186 | 27,743 |
| 16 | 2001 Curr Average Investment | Ln15 + (Ln11 - Ln10) | 366,559 | 366,559 | 1,014,692 | 68,243 | 375,377 | 52,158 | 1,229,118 | 56,114 | 1,616 | 185 | 27,706 |
| 17 | 2002 Curr Average Investment | Ln16 + (Ln12 - Ln11) | 372,052 | 372,052 | 1,026,289 | 68,827 | 376,735 | 52,578 | 1,252,789 | 63,656 | 1,613 | 184 | 27,669 |
| 18 | 2000-2002 Curr Avg Investment | (Ln16+Ln18+Ln17)/3 | 366,534 | 366,534 | 1,014,692 | 68,243 | 375,377 | 52,158 | 1,229,118 | 56,114 | 1,616 | 185 | 27,706 |
| 19 | Expense Account - Lev A | | 6411 | | 6421 | 6421 | 6422 | 6422 | 6423 | 6423 | 6424 | 6424 | 6426 |
| 20 | Expense - 1998 Actual | Reg Expenses | 11,008 | 11,008 | 48,017 | 523 | 6,024 | 241 | 52,310 | 260 | 0 | 0 | 200 |
| 21 | Service Order Adjustment | Service Order Study | | | 10,906 | 0 | 0 | 0 | 18,986 | 50 | 0 | 0 | 168 |
| 22 | SoftCap Adjustment | Software Capitalization | | | | | | | | | | | |
| 23 | Rental Revenue/Expense | MR Ledger | 780 | 9,358 | | | | | | | | | |
| 24 | Adjusted Expn, Lev A - 1998 | Ln20-Ln21-Ln22-Ln23 | 10,228 | 1,650 | 37,111 | 523 | 6,024 | 241 | 33,324 | 210 | 0 | 0 | 32 |
| 25 | Expense Account - Lev B | | 6410 | | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 |
| 26 | Expense - 1998 Actual (Note 4) | Reg Expenses | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 | 119,103 |
| 27 | Ratio: Lev A / Lev B | Ln24 / Ln26 | 0.0859 | 0.0139 | 0.3116 | 0.0044 | 0.0506 | 0.0020 | 0.2798 | 0.0018 | 0.0000 | 0.0000 | 0.0003 |
| 28 | Level B Account | | OSP | OSP | OSP | OSP | OSP | OSP | OSP | OSP | OSP | OSP | OSP |
| 29 | Average Exp - Lev B (2000-2002) | Regulatory Forecast | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 | 131,112 |
| 30 | Average Exp - Lev A (2000-2002) | Ln27 * Ln 29 | 11,259 | 1,816 | 40,853 | 575 | 6,632 | 265 | 36,684 | 231 | 0 | 0 | 35 |
| 31 | Adj Ratio:Oper Expense / Invest. | Ln30 / Ln18 | 0.030717 | 0.004955 | 0.040261 | 0.008426 | 0.017668 | 0.005081 | 0.029846 | 0.004117 | 0.000000 | 0.000000 | 0.001263 |
| 32 | COE Power/Expense | Account 6531 | — | — | — | — | — | — | — | — | — | — | — |
| 33 | COE Power Factor | Ln 32 / Ln 18 (Total COE) | — | — | — | — | — | — | — | — | — | — | — |
| 34 | Plant Specific Factor - Calculated | Ln31 * Ln33 | 0.030717 | 0.004955 | 0.040261 | 0.008426 | 0.017668 | 0.005081 | 0.029846 | 0.004117 | 0.000000 | 0.000000 | 0.001263 |
| 35 | Plant Specific Factor - Surrogate | Regional BS Factor | 0.034611 | 0.004202 | 0.036501 | 0.007643 | 0.017353 | 0.003718 | 0.035529 | 0.005235 | 0.000837 | 0.001654 | 0.002032 |
| 36 | Plant Specific Factor - Used | Note 3 | 0.030717 | 0.004955 | 0.040261 | 0.008426 | 0.017668 | 0.005081 | 0.029846 | 0.004117 | 0.000837 | 0.001654 | 0.001263 |

NOTES:

1 For Pole and Conduit "C" factors, use Acct 5240 Rental Revenues. For the "CP" factors, use the appropriate 6000 Operating Rent

2 The General Purpose Computer expense factor is calculated on both a regional and state basis. However, only the regional factor

3 The regional expense factor is used whenever the current investment base falls below $1,000,000 or the historic expenses are deem

1 For Pole and Conduit "C" factors, use Acct 5240 Rental Revenues. For the "CP" factors, use the appropriate 6000 Operating Rent

000154

| | | | |
|---|---|---|---|
| 37 | Poles - F'wnd Loading (00-02) | Ln18 Ac2411/Ac2421 | 0.338463 |
| 38 | Conduit - F'wnd Loading 00-02) | Ln18 Ac2441/Ac2422 | 0.843751 |

2 The General Purpose Computer expense factor is calculated on both a regional and state basis. However, only the regional factor

3 The regional expense factor is used whenever the current investment base falls below $1,000,000 or the historic expenses are deem

# Calculation of Plant Specific Expense to Investment Ratios

**Forward Looking Studies - 2000-2002**

## BellSouth Telecommunications

| Line | SCALE=000 / DESCRIPTION | Account / FRC | LAND 2111 ALL | BUILDINGS - COE 2121 ALL | GEN PRPSE COMPUTERS 2124 LESS 633 | ANALOG SWITCH 2211 77C | DIGITAL SWITCH 2212 377C, 587C | DIGITAL SWITCH 2212 "377CP" | OPERATOR SYSTEMS 2220 117C | RADIO 2231 67C, 167C | DIGITAL DATA SYSTEMS 2232 157C | DIGTL CIRC-PAIR GAIN 2232 257C,D257C, F257C | DIGTL CIRC-OTHER 2232 357 | ANALOG CIRC 2232 57C, 457C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MR Book Investment 1999 EOY | Reg Investments | 151,344 | 2,738,647 | 1,659,157 | 1,161,288 | 7,459,378 | 7,459,378 | 147,775 | 74,513 | 95,749 | 5,864,546 | 4,376,687 | 470 743 |
| 2 | MR Book Investment 1999 EOY | Ln1+ 1999 Additions | 150,244 | 2,857,506 | 1,674,237 | 1,032,619 | 8,281,272 | 8,281,272 | 149,125 | 70,425 | 99,932 | 6,391,780 | 4,669,554 | 456 354 |
| 3 | 2000 Additions | Construction Budget | 420 | 123,650 | -274,396 | -131,147 | 684,782 | 684,782 | 3,745 | -6,649 | 3,845 | 463,230 | 289,912 | 17,695 |
| 4 | Investment 2000 EOY | Ln2 + Ln3 | 150,664 | 2,981,155 | 1,399,840 | 901,472 | 8,966,054 | 8,966,054 | 152,871 | 63,776 | 103,777 | 6,855,011 | 4,959,466 | 438,659 |
| 5 | 2001 Additions | Construction Budget | 400 | 124,896 | -116,586 | -84,796 | 700,226 | 700,226 | 4,107 | -2,230 | 3,575 | 459,568 | 284,516 | 16,739 |
| 6 | Investment 2001 EOY | Ln4 + Ln5 | 151,064 | 3,106,051 | 1,283,254 | 816,675 | 9,666,280 | 9,666,280 | 156,978 | 61,547 | 107,352 | 7,314,579 | 5,243,983 | 421,920 |
| 7 | 2002 Additions | Construction Budget | 400 | 125,174 | -84,135 | -135,673 | 724,235 | 724,235 | 4,464 | -2,299 | 3,994 | 465,811 | 295,512 | 17,729 |
| 8 | Investment 2002 EOY | Ln6 + Ln7 | 151,464 | 3,231,225 | 1,199,119 | 681,002 | 10,390,515 | 10,390,515 | 161,442 | 59,248 | 111,346 | 7,780,390 | 5,539,495 | 404 191 |
| 9 | Average Investment 1999 | (Ln1 + Ln2)/2 | 150,794 | 2,798,076 | 1,666,697 | 1,096,954 | 7,870,325 | 7,870,325 | 148,450 | 72,469 | 97,840 | 6,128,163 | 4,523,121 | 463 549 |
| 10 | Average Investment 2000 | (Ln2 + Ln4)/2 | 150,454 | 2,919,331 | 1,537,038 | 967,045 | 8,623,663 | 8,623,663 | 150,998 | 67,101 | 101,854 | 6,623,396 | 4,814,510 | 447,507 |
| 11 | Average Investment 2001 | (Ln4 + Ln6)/2 | 150,864 | 3,043,603 | 1,341,547 | 859,074 | 9,316,167 | 9,316,167 | 154,925 | 62,662 | 105,565 | 7,084,795 | 5,101,724 | 430 290 |
| 12 | Average Investment 2002 | (Ln6 + Ln8)/2 | 151,264 | 3,168,638 | 1,241,186 | 748,839 | 10,028,397 | 10,028,397 | 159,210 | 60,397 | 109,349 | 7,547,484 | 5,391,739 | 413 056 |
| 13 | Curr Cost / Book Cost | Composite Ln14/ Ln9 | 1 885 | 1.902 | 0.591 | 1.447 | 1 098 | 1 098 | 1 069 | 1.258 | 0 915 | 1 001 | 1 003 | 1 005 |
| 14 | 1999 Curr Average Investment | Ln13 * Ln9 | 284,170 | 5,320,522 | 984,172 | 1,586,861 | 8,637,574 | 8,637,574 | 158,686 | 91,158 | 89,521 | 6,135,065 | 4,535,590 | 465 720 |
| 15 | 2000 Curr Average Investment | Ln14 + (Ln10 - Ln9) | 283,830 | 5,441,776 | 854,513 | 1,456,953 | 9,390,912 | 9,390,912 | 161,234 | 85,790 | 93,535 | 6,630,297 | 4,826,979 | 449 678 |
| 16 | 2001 Curr Average Investment | Ln15 + (Ln11 - Ln10) | 284,240 | 5,566,049 | 659,022 | 1,348,981 | 10,083,416 | 10,083,416 | 165,161 | 81,351 | 97,245 | 7,091,696 | 5,114,193 | 432 461 |
| 17 | 2002 Curr Average Investment | Ln16 + (Ln12 - Ln11) | 284,640 | 5,691,084 | 558,661 | 1,238,748 | 10,795,646 | 10,795,646 | 169,446 | 79,086 | 101,030 | 7,554,386 | 5,404,208 | 415 227 |
| 18 | 2000-2002 Curr Avg Investment | (Ln15+Ln16+Ln17)/3 | 284,237 | 5,566,303 | 690,732 | 1,348,226 | 10,089,991 | 10,089,991 | 165,280 | 82,076 | 97,270 | 7,092,126 | 5,115,127 | 432,456 |
| 19 | Expense Account - Lev A | | — | 6121 | 6124 | 6211 | 6212 | 6212 | 6220 | 6231 | 6232 | 6232 | 6232 | 6232 |
| 20 | Expense - 1999 Actual | Reg Expenses | 0 | 262,586 | 210,404 | 48,259 | 259,076 | 259,076 | 9,775 | 529 | 2,478 | 93,914 | 79,304 | 6 635 |
| 21 | Service Order Adjustment | Service Order Study | 0 | 0 | 0 | 16,151 | 51,899 | 51,899 | 0 | 0 | 81 | 960 | 21,583 | 3,727 |
| 22 | SoftCap Adjustment | Software Capitalization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | Rental Revenue/Expense | MR Ledger | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | Adjusted Expn, Lev A - 1999 | Ln20-Ln21-Ln22-Ln23 | 0 | 262,586 | 210,404 | 32,108 | 207,177 | 207,177 | 9,775 | 529 | 2,398 | 92,954 | 57,722 | 2 909 |
| 25 | Expense Account - Lev B | | 6110 | 6120 | 6120 | 6210 | 6210 | 6210 | 6220 | 6230 | 6230 | 6230 | 6230 | 6230 |
| 26 | Expense - 1999 Actual (Note 4) | Reg Expenses | 3,216 | 525,184 | 525,184 | 307,335 | 307,335 | 307,335 | 9,775 | 9,775 | 181,872 | 181,872 | 181,872 | 181,872 |
| 27 | Ratio, Lev A / Lev B | Ln24 / Ln26 | 0 0000 | 0 5000 | 0 4006 | 0.1045 | 0.6741 | 0.6741 | 1.0000 | 0 0541 | 0.0132 | 0 5111 | 0 3174 | 0 0160 |
| 28 | Level B Account | | Network Support | General Support | General Support | CO Switching | CO Switching | CO Switching | CO Operor Systems | Radio | CO Transmissio ns | CO Transmissio ns | CO Transmissio ns | CO Transmission s |
| 29 | Average Exp - Lev B (2000-2002) | Regulatory Forecast | 1,591 | 579,958 | 579,958 | 338,325 | 338,325 | 338,325 | 10,762 | 195,032 | 195,032 | 195,032 | 195,032 | 195 032 |
| 30 | Average Exp - Lev A (2000-2002) | Ln27 * Ln 29 | 0 | 289,972 | 232,348 | 35,346 | 228,068 | 228,068 | 10,762 | 10,545 | 2,571 | 99,680 | 61,898 | 3,119 |
| 31 | Adj Ratio:Oper Expense / Invest. | Ln30 / Ln18 | 0 000000 | 0 052094 | 0 336379 | 0 026217 | 0 022603 | 0 022603 | 0 065114 | 0 128479 | 0 026432 | 0 014055 | 0 012101 | 0 007212 |
| 32 | COE Power/Expense | Account 6531 | --- | --- | --- | 52,358 | 52,358 | --- | 52,358 | 52,358 | 52,358 | 52,358 | 52,358 | 52 358 |
| 33 | COE Power Factor | Ln 32 / Ln 15 (Total COE) | --- | --- | --- | 0 002267 | 0 002267 | --- | 0 002267 | 0 002267 | 0 002267 | 0 002267 | 0 002267 | 0 002267 |
| 34 | Plant Specific Factor - Calculated | Ln31 + Ln33 | 0 000000 | 0 052094 | 0 336379 | 0 028484 | 0 024870 | 0 022603 | 0 067381 | 0 130746 | 0 028699 | 0 016322 | 0 014368 | 0 009479 |
| 35 | Plant Specific Factor - Surrogate | Regional BS Factor | 0 000000 | 0 052094 | 0 336379 | 0 028484 | 0 024870 | 0 022603 | 0 067381 | 0 130746 | 0 028699 | 0 016322 | 0 014368 | 0 009479 |
| 36 | Plant Specific Factor - Used | Note 3 | 0 000000 | 0 052094 | 0 336379 | 0 028484 | 0 024870 | 0 022603 | 0 067381 | 0 130746 | 0 028699 | 0 016322 | 0 014368 | 0 009479 |

NOTES:

1 For Pole and Conduit "C" factors, use Acct 5240 Rental Revenues. For the "CP" factors, use the appropriate 6000 Operating Rent expense figure

2 The General Purpose Computer expense factor is calculated on both a regional and state basis. However, only the regional factor is used.

3 The regional expense factor is used whenever the current investment base falls below $1,000,000 or the historic expenses are deemed unreliable

0001457

# Calculation of Plant Specific Expense to Investment Ratios

**Forward Looking Studies - 1998-2000**

## BellSouth Telecommunications

| Line | SCALE=000 / DESCRIPTION | Account / FRC | POLES 2411 1C | POLES 2411 "1CP" | AER CA - METAL 2421 22C, 12C | AER CA - FIBER 2421 822C, 812C,D22C, | U.G. CA - METAL 2422 5C | U.G. CA - FIBER 2422 85C,D5C,F5C, T5C | BUR CA - METAL 2423 45C | BUR CA - FIBER 2423 845C, D45C, F45C, T45C | SUB CA - METAL 2424 6C | SUB CA - FIBER 2424 86C,D6C,F6C | INTRBLD-METAL 2426 52C | INTRBLD-FIBER 2426 852C,D52C,F52C,T52C | CONDUIT SYS 2441 4C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MR Book Investment 1998 EOY | Reg Investments | 943,978 | 943,978 | 4,756,070 | 389,411 | 2,410,836 | 728,754 | 9,887,645 | 818,589 | 17,699 | 4,497 | 182,188 | 1,954 | 2,257,843 |
| 2 | MR Book Investment 1999 EOY | Ln1+ 1999 Additions | 976,803 | 976,803 | 4,756,070 | 389,411 | 2,410,836 | 728,754 | 9,887,645 | 818,589 | 17,699 | 4,497 | 182,188 | 1,954 | 2,305,283 |
| 3 | 2000 Additions | Construction Budget | 32,311 | 32,311 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46,626 |
| 4 | Investment 2000 EOY | Ln2 + Ln3 | 1,009,113 | 1,009,113 | 4,756,070 | 389,411 | 2,410,836 | 728,754 | 9,887,645 | 818,589 | 17,699 | 4,497 | 182,188 | 1,954 | 2,351,908 |
| 5 | 2001 Additions | Construction Budget | 32,311 | 32,311 | 183,763 | 12,124 | 21,520 | 7,199 | 375,086 | 156,786 | -50 | -16 | -590 | 0 | 45,903 |
| 6 | Investment 2001 EOY | Ln4 + Ln5 | 1,041,424 | 1,041,424 | 4,939,833 | 401,535 | 2,432,356 | 735,953 | 10,262,731 | 975,375 | 17,649 | 4,481 | 181,597 | 1,954 | 2,397,811 |
| 7 | 2002 Additions | Construction Budget | 32,615 | 32,615 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46,272 |
| 8 | Investment 2002 EOY | Ln5 + Ln7 | 1,074,039 | 1,074,039 | 4,939,833 | 401,535 | 2,432,356 | 735,953 | 10,262,731 | 975,375 | 17,649 | 4,481 | 181,597 | 1,954 | 2,444,084 |
| 9 | Average Investment 1998 | (Ln1 + Ln2)/2 | 960,390 | 960,390 | 4,756,070 | 389,411 | 2,410,836 | 728,754 | 9,887,645 | 818,589 | 17,699 | 4,497 | 182,188 | 1,954 | 2,281,563 |
| 10 | Average Investment 2000 | (Ln2 + Ln4)/2 | 992,958 | 992,958 | 4,756,070 | 389,411 | 2,410,836 | 728,754 | 9,887,645 | 818,589 | 17,699 | 4,497 | 182,188 | 1,954 | 2,328,596 |
| 11 | Average Investment 2001 | (Ln4 + Ln5)/2 | 1,025,268 | 1,025,268 | 4,847,952 | 395,473 | 2,421,596 | 732,354 | 10,075,188 | 896,982 | 17,674 | 4,489 | 181,893 | 1,954 | 2,374,860 |
| 12 | Average Investment 2002 | (Ln5 + Ln8)/2 | 1,057,731 | 1,057,731 | 4,939,833 | 401,535 | 2,432,356 | 735,953 | 10,262,731 | 975,375 | 17,649 | 4,481 | 181,597 | 1,954 | 2,420,948 |
| 13 | Curr Cost / Book Cost | Composite Ln14/Ln9 | 2.462 | 2.462 | 1.536 | 0.901 | 1.544 | 0.816 | 1.375 | 0.974 | 1.756 | 1.680 | 1.487 | 0.923 | 1.665 |
| 14 | 1998 Curr Average Investment | Ln13 * Ln9 | 2,364,245 | 2,364,245 | 7,306,575 | 350,863 | 3,721,748 | 594,812 | 13,597,165 | 796,910 | 31,082 | 7,554 | 270,912 | 1,804 | 3,798,276 |
| 15 | 1999 Curr Average Investment | Ln14 + (Ln10 - Ln9) | 2,396,813 | 2,396,813 | 7,306,575 | 350,863 | 3,721,748 | 594,812 | 13,597,165 | 796,910 | 31,082 | 7,554 | 270,912 | 1,804 | 3,845,309 |
| 16 | 2001 Curr Average Investment | Ln15 + (Ln11 - Ln10) | 2,429,123 | 2,429,123 | 7,398,457 | 356,925 | 3,732,508 | 598,411 | 13,784,708 | 875,303 | 31,057 | 7,546 | 270,617 | 1,804 | 3,891,574 |
| 17 | 2002 Curr Average Investment | Ln16 + (Ln12 - Ln11) | 2,461,586 | 2,461,586 | 7,490,338 | 362,987 | 3,743,268 | 602,011 | 13,972,251 | 953,696 | 31,032 | 7,538 | 270,322 | 1,804 | 3,937,661 |
| 18 | 1998-2002 Curr Avg Investment | (Ln15+Ln16+Ln17)/3 | 2,429,174 | 2,429,174 | 7,398,457 | 356,925 | 3,732,508 | 598,411 | 13,784,708 | 875,303 | 31,057 | 7,546 | 270,617 | 1,804 | 3,891,515 |
| 19 | Expense Account - Lev A | | 6411 | 6411 | 6421 | 6421 | 6422 | 6422 | 6423 | 6423 | 6424 | 6424 | 6426 | 6426 | 6441 |
| 20 | Expense - 1998 Actual | Reg Expenses | 83,250 | 83,250 | 308,792 | 2,501 | 59,696 | 2,039 | 589,109 | 4,423 | 24 | 0 | 2,465 | 32 | 8,780 |
| 21 | Service Order Adjustment | Service Order Study | 0 | 0 | 61,243 | 0 | 324 | 0 | 140,167 | 223 | 0 | 0 | 1,961 | 0 | 0 |
| 22 | BellCap Adjustment | Software Capitalization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | Rental Revenue/Expense | MR Ledger | 6,181 | 73,893 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,945 |
| 24 | Adjusted Expe, Lev A - 1998 | Ln20-Ln21-Ln22-Ln23 | 77,069 | 9,357 | 247,548 | 2,501 | 59,374 | 2,039 | 448,943 | 4,200 | 24 | 0 | 504 | 32 | 6,835 |
| 25 | Expense Account - Lev B | | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 | 6410 |
| 26 | Expense - 1998 Actual (Note 4) | Reg Expenses | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 | 1,061,115 |
| 27 | Ratio: Lev A / Lev B | Ln24 / Ln26 | 0.0726 | 0.0088 | 0.2333 | 0.0024 | 0.0560 | 0.0019 | 0.4231 | 0.0040 | 0.0000 | 0.0000 | 0.0005 | 0.0000 | 0.0064 |
| 28 | Level B Account | | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire | Cable & Wire |
| 29 | Average Exp - Lev B (1998-2002) | Regulatory Forecast | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 | 1,157,581 |
| 30 | Average Exp - Lev A (1998-2002) | Ln27 * Ln 29 | 84,075 | 10,208 | 270,053 | 2,728 | 64,772 | 2,225 | 489,756 | 4,582 | 26 | 0 | 550 | 35 | 7,457 |
| 31 | Adj Ratio/Oper Expense / Invest | Ln30 / Ln18 | 0.034611 | 0.004202 | 0.036501 | 0.007643 | 0.017353 | 0.003718 | 0.035529 | 0.005235 | 0.000837 | 0.000000 | 0.002032 | 0.019398 | 0.001916 |
| 32 | COE Power/Expense | Account 6531 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | |
| 33 | COE Power Factor | Ln 32 / Ln 15 (Total COE) | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | |
| 34 | Plant Specific Factor - Calculated | Ln31 + Ln33 | 0.034611 | 0.004202 | 0.036501 | 0.007643 | 0.017353 | 0.003718 | 0.035529 | 0.005235 | 0.000837 | 0.000000 | 0.002032 | 0.019398 | 0.001916 |
| 35 | Plant Specific Factor - Surrogate | Regional BS Factor | 0.034611 | 0.004202 | 0.036501 | 0.007643 | 0.017353 | 0.003718 | 0.035529 | 0.005235 | 0.000837 | 0.001654 | 0.002032 | 0.019398 | 0.001916 |
| 36 | Plant Specific Factor - Used | Note 3 | 0.034611 | 0.004202 | 0.036501 | 0.007643 | 0.017353 | 0.003718 | 0.035529 | 0.005235 | 0.000837 | 0.001654 | 0.002032 | 0.019398 | 0.001916 |

Note 3

**NOTES:**

1. For Pole and Conduit "C" factors, use Acct 5240 Rental Revenues. For the "CP" factors, use the appropriate 6000 Operating Rent expense figure
2. The General Purpose Computer expense factor is calculated on both a regional and state basis. However, only the regional factor is used.
3. The regional expense factor is used whenever the current investment base falls below $1,000,000 or the historic expenses are deemed unreliable

0001158

4 Summed Lev B actual expenses have been adjusted by a contra entry (in red on "MR Reg EXP98" tab) to remove software RTU expenses which are capitalized in the 2000-2002 View.

| STRUCTURES LOADING FACTORS: | SOURCE | FACTORS |
|---|---|---|
| 37 Poles - F'ward Looking (00-02) | La18. Ac2411/Ac2421 | 0.313224 |
| 38 Conduit - F'ward Looking 00-02) | La18. Ac2441/Ac2422 | 0.698542 |

000159

**Forward Looking Studies - 2000-2002**
**Plant Specific and Pole & Conduit Summary**

| State | Field Code | ACFC Plt Specific Exp | State | Field Code | ACFC Plt Specific Exp |
|---|---|---|---|---|---|
| TN | 20C | 0.000000 | BS | 20C | 0.000000 |
| TN | 10C | 0.074208 | BS | 10C | 0.052094 |
| TN | 377C | 0.028315 | BS | 377C | 0.024870 |
| TN | 377CP | 0.025990 | BS | 377CP | 0.022603 |
| TN | 117C | 0.112665 | BS | 117C | 0.067381 |
| TN | 157C | 0.020955 | BS | 157C | 0.028699 |
| TN | 257C | 0.017448 | BS | 257C | 0.016322 |
| TN | 357C | 0.015243 | BS | 357C | 0.014368 |
| TN | 1C | 0.030717 | BS | 1C | 0.034611 |
| TN | 1CP | 0.004955 | BS | 1CP | 0.004202 |
| TN | 12C | 0.040261 | BS | 12C | 0.036501 |
| TN | 22C | 0.040261 | BS | 22C | 0.036501 |
| TN | 812C | 0.008426 | BS | 812C | 0.007643 |
| TN | 822C | 0.008426 | BS | 822C | 0.007643 |
| TN | 5C | 0.017668 | BS | 5C | 0.017353 |
| TN | 85C | 0.005081 | BS | 85C | 0.003718 |
| TN | 45C | 0.029846 | BS | 45C | 0.035529 |
| TN | 845C | 0.004117 | BS | 845C | 0.005235 |
| TN | 6C | 0.000837 | BS | 6C | 0.000837 |
| TN | 86C | 0.001654 | BS | 86C | 0.000000 |
| TN | 52C | 0.001263 | BS | 52C | 0.002032 |
| TN | 852C | 0.019398 | BS | 852C | 0.019398 |
| TN | 4C | 0.001455 | BS | 4C | 0.001916 |
| TN | 4CP | 0.000000 | BS | 4CP | 0.000000 |
| TN | 530C | 0.336379 | BS | 530C | 0.336379 |
| TN | 630C | 0.336379 | BS | 630C | 0.336379 |
| TN | 1C Load | 0.338463 | BS | 1C Load | 0.313224 |
| TN | 4C Load | 0.843751 | BS | 4C Load | 0.898542 |

000161

# Forward Looking Studies - 2000-2002

## CALCULATION OF FORWARD LOOKING LAND AND BUILDING LOADING FACTORS

| | DATA SOURCE: EOY 1998 | TENNESSEE | BELLSOUTH |
|---|---|---|---|
| 1. ACCOUNT 2121 - BUILDING - 1998 EOY | CSS | 245,989,769 | 2,738,647,180 |
| 2. A/C2121, CP 2- BUILDINGS - CEN OFC | CSS | 149,040,786 | 1,521,601,215 |
| 3. - CEN OFC % OF TOTAL BUILDINGS | LN 2/LN1 | 60.59% | 55.56% |
| 4. A/C2121, CP 8- BUILDINGS ASSOC W/GPC | CSS | 29,563,650 | 187,432,968 |
| 5. - GPC % OF TOTAL BUILDINGS | LN 4/LN1 | 12.02% | 6.84% |
| 6. ACCOUNT 2111 - LAND - 1998 EOY | 1999-2001 AVG | 20,330 | 284,237 |
| 7. ACCOUNT 2121 - BUILDING | 1999-2001 AVG | 526,221 | 5,566,301 |
| 8. TOTAL LAND & BLDG. | LN 6 + LN 7 | 546,551 | 5,850,540 |
| 9. ACCT 2124 - GEN PUR COMP | 1999-2001 AVG | 94,399 | 690,732 |
| 10. ACCOUNT 2200 - COE | 1999-2001 AVG | 2,742,193 | 22,641,869 |
| 11. A/C2121, BUILDINGS ASSOC W/COE | LN 3 * LN 7 | 318,828 | 3,114,407 |
| 12. A/C2121, BUILDINGS ASSOC W/GPC | LN 5 * LN 7 | 63,243 | 375,580 |
| **CALCULATION OF FORWARD LOOKING L&B FACTORS:** | | | |
| 13. CENTRAL OFFICE - LAND | (LN3)*(LN13)/LN10 | 0.0044920 | 0.0069750 |
| 14. CENTRAL OFFICE - BUILDING | LN 11 / LN 10 | 0.1162680 | 0.1375510 |
| 15. GEN PUR COMPUTER - LAND | (LN5)*(LN6)/LN9 | 0.0258830 | 0.0281690 |
| 16. GEN PUR COMPUTER - BUILDING | LN 12 / LN 9 | 0.6699530 | 0.5437540 |

000162

| STATE | ACCT | FRC | CAP/ MTCE | COST POOL | REGULATED INVESTMENT BY FRC |
|---|---|---|---|---|---|
| TN | 2111 | 20 | C | 1 | 10793249 |
| TN | 2112 | 40 | C | 1 | 49719340 |
| TN | 2112 | 40 | C | 3 | 230282 |
| TN | 2112 | 40 | C | 4 | 283534 |
| TN | 2112 | 40 | C | 5 | 19935 |
| TN | 2112 | 40 | C | 6 | 4891106 |
| TN | 2115 | 340 | C | 5 | 1120470 |
| TN | 2116 | 540 | C | 1 | 32625218 |
| TN | 2116 | 540 | C | 2 | 946265 |
| TN | 2121 | 10 | C | 1 | 189975 |
| TN | 2121 | 10 | C | 2 | 142535902 |
| TN | 2121 | 10 | C | 3 | 17815369 |
| TN | 2121 | 10 | C | 4 | 14776939 |
| TN | 2121 | 10 | C | 5 | 11424347 |
| TN | 2121 | 10 | C | 6 | 10892304 |
| TN | 2121 | 10 | C | 7 | 4722831 |
| TN | 2121 | 10 | C | 8 | 33851745 |
| TN | 2121 | 110 | C | 1 | 5448 |
| TN | 2121 | 110 | C | 2 | 4087651 |
| TN | 2121 | 110 | C | 3 | 510910 |
| TN | 2121 | 110 | C | 4 | 423774 |
| TN | 2121 | 110 | C | 5 | 327628 |
| TN | 2121 | 110 | C | 6 | 312370 |
| TN | 2121 | 110 | C | 7 | 135442 |
| TN | 2121 | 110 | C | 8 | 970802 |
| TN | 2122 | 30 | C | 1 | 329464 |
| TN | 2122 | 30 | C | 2 | 2724291 |
| TN | 2122 | 130 | C | 2 | 47713 |
| TN | 2123 | 430 | C | 1 | 395522 |
| TN | 2123 | 430 | C | 2 | 3463429 |
| TN | 2123 | 658 | C | 3 | 7372098 |
| TN | 2123 | 668 | C | 3 | 490394 |
| TN | 2123 | 718 | C | 3 | 1212213 |
| TN | 2123 | 728 | C | 3 | -16333 |
| TN | 2123 | 768 | C | 3 | 1042 |
| TN | 2124 | 530 | C | 2 | 137940307 |
| TN | 2124 | 630 | C | 3 | 74430754 |
| TN | 2124 | 633 | C | 3 | 19400847 |
| TN | 2124 | 730 | C | 3 | -77067 |
| TN | 2211 | 77 | C | 1 | 942392 |
| TN | 2211 | 77 | C | 2 | 3771378 |
| TN | 2211 | 77 | C | 3 | 4567583 |
| TN | 2211 | 77 | C | 4 | 59488576 |
| TN | 2212 | 377 | C | 1 | 176705 |

| | | | | | |
|---|---|---|---|---|---|
| TN | 2212 | 377 | C | 2 | 15780389 |
| TN | 2212 | 377 | C | 3 | 548442 |
| TN | 2212 | 377 | C | 4 | 723927509 |
| TN | 2212 | 377 | C | 5 | 88322280 |
| TN | 2220 | 117 | C | 1 | 6516689 |
| TN | 2220 | 117 | C | 2 | 12959739 |
| TN | 2231 | 67 | C | 1 | 2262647 |
| TN | 2231 | 167 | C | 1 | 41774 |
| TN | 2232 | 57 | C | 1 | 61093357 |
| TN | 2232 | 157 | C | 1 | 14917449 |
| TN | 2232 | 257 | C | 1 | 368862759 |
| TN | 2232 | 257 | C | 3 | 235094889 |
| TN | 2232 | 357 | C | 1 | 85652244 |
| TN | 2232 | 357 | C | 4 | 416814332 |
| TN | 2311 | 318 | C | 1 | 29808 |
| TN | 2341 | 158 | C | 1 | 5045200 |
| TN | 2341 | 458 | C | 1 | 2016524 |
| TN | 2341 | 468 | C | 1 | 426973 |
| TN | 2362 | 378 | C | 1 | 2452869 |
| TN | 2362 | 558 | C | 1 | 10430275 |
| TN | 2362 | 828 | C | 1 | 199095 |
| TN | 2362 | 858 | C | 1 | 11422900 |
| TN | 2362 | 868 | C | 1 | 15308 |
| TN | 2362 | 958 | C | 1 | 1717377 |
| TN | 2411 | 1 | C | 1 | 133364203 |
| TN | 2421 | 12 | C | 1 | 42906213 |
| TN | 2421 | 22 | C | 1 | 558194419 |
| TN | 2421 | 248 | C | 1 | 268754 |
| TN | 2421 | 812 | C | 3 | 863223 |
| TN | 2421 | 812 | C | 4 | 1788655 |
| TN | 2421 | 822 | C | 3 | 21690638 |
| TN | 2421 | 822 | C | 4 | 44955002 |
| TN | 2422 | 5 | C | 1 | 226273966 |
| TN | 2422 | 85 | C | 3 | 19370606 |
| TN | 2422 | 85 | C | 4 | 40150199 |
| TN | 2423 | 45 | C | 1 | 793174985 |
| TN | 2423 | 548 | C | 1 | 208694 |
| TN | 2423 | 845 | C | 3 | 15004357 |
| TN | 2423 | 845 | C | 4 | 28760987 |
| TN | 2424 | 6 | C | 1 | 1086933 |
| TN | 2424 | 86 | C | 3 | 39087 |
| TN | 2424 | 86 | C | 4 | 81036 |
| TN | 2426 | 52 | C | 1 | 19796067 |
| TN | 2426 | 852 | C | 3 | 130369 |
| TN | 2441 | 4 | C | 1 | 192554326 |
| TN | 2681 | 50 | C | 1 | 1357285 |
| TN | 2681 | 53 | C | 6 | 5166352 |
| TN | 2681 | 450 | C | 4 | 2 |
| TN | 2682 | 350 | C | 1 | 6139019 |
| TN | 2682 | 353 | C | 4 | 19899 |
| TN | 2682 | 950 | C | 2 | 75488 |

000164

| STATE | ACCT | FRC | CAP/ MTCE | COST POOL | REGULATED INVESTMENT BY FRC |
|---|---|---|---|---|---|
| TN | 2111 | 20 | C | 1 | 10661676 |
| TN | 2112 | 40 | C | 1 | 55621388 |
| TN | 2112 | 40 | C | 3 | 243121 |
| TN | 2112 | 40 | C | 4 | 188763 |
| TN | 2112 | 40 | C | 5 | 18796 |
| TN | 2112 | 40 | C | 6 | 3690916 |
| TN | 2115 | 340 | C | 5 | 991201 |
| TN | 2115 | 342 | C | 6 | 244825 |
| TN | 2116 | 540 | C | 1 | 26309430 |
| TN | 2116 | 540 | C | 2 | 1455316 |
| TN | 2116 | 542 | C | 3 | 7447505 |
| TN | 2121 | 10 | C | 1 | 1098230 |
| TN | 2121 | 10 | C | 2 | 144593292 |
| TN | 2121 | 10 | C | 3 | 14737138 |
| TN | 2121 | 10 | C | 4 | 21451147 |
| TN | 2121 | 10 | C | 5 | 11143588 |
| TN | 2121 | 10 | C | 6 | 11762069 |
| TN | 2121 | 10 | C | 7 | 5182331 |
| TN | 2121 | 10 | C | 8 | 28681447 |
| TN | 2121 | 110 | C | 1 | 33780 |
| TN | 2121 | 110 | C | 2 | 4447494 |
| TN | 2121 | 110 | C | 3 | 453294 |
| TN | 2121 | 110 | C | 4 | 659808 |
| TN | 2121 | 110 | C | 5 | 342762 |
| TN | 2121 | 110 | C | 6 | 361785 |
| TN | 2121 | 110 | C | 7 | 159401 |
| TN | 2121 | 110 | C | 8 | 882203 |
| TN | 2122 | 130 | C | 2 | 28185 |
| TN | 2122 | 332 | C | 3 | 2370659 |
| TN | 2123 | 430 | C | 1 | 251631 |
| TN | 2123 | 430 | C | 2 | 2012213 |
| TN | 2123 | 658 | C | 3 | 7111998 |
| TN | 2123 | 668 | C | 3 | 1292729 |
| TN | 2123 | 718 | C | 3 | 277956 |
| TN | 2123 | 732 | C | 4 | 1773401 |
| TN | 2124 | 530 | C | 2 | 92562526 |
| TN | 2124 | 532 | C | 4 | 24484506 |
| TN | 2124 | 630 | C | 3 | 42805182 |
| TN | 2124 | 633 | C | 3 | 20449909 |
| TN | 2211 | 77 | C | 1 | 781903 |
| TN | 2211 | 77 | C | 2 | 3308066 |
| TN | 2211 | 77 | C | 3 | 4145973 |

000165

| | | | | |
|---|---|---|---|---|
| TN | 2211 | 77 C | 4 | 58337231 |
| TN | 2212 | 377 C | 1 | 190096 |
| TN | 2212 | 377 C | 2 | 16827710 |
| TN | 2212 | 377 C | 3 | 454258 |
| TN | 2212 | 377 C | 4 | 770388821 |
| TN | 2212 | 377 C | 5 | 89931200 |
| TN | 2212 | 377 C | 7 | 3325832 |
| TN | 2220 | 117 C | 1 | 6226250 |
| TN | 2220 | 117 C | 2 | 12670999 |

**000166**

# Year-to-Date
# DECEMBER 1998
# Regulated MR

| ACCT | SRC | FRC | TN | BS |
|---|---|---|---|---|
| 6112 | 1100 | | 441,922 91 | 3,427,848 55 |
| 6112 | 1900 | 40 | - | |
| 6112 | 2100 | 40 | - | |
| 6112 | 2900 | 40 | (8,555,079 39) | (65,123,984 65) |
| 6112 | 1100 | 40 | 8,122,941 48 | 63,251,433 41 |
| 6112 | 2900 | | - | |
| 6113 | 0 | | - | |
| 6113 | 0 | 140 | 287,056 15 | 2,612,967 97 |
| 6113 | 0 | 141 | 339,352 14 | 3,845,979 11 |
| 6114 | 9000 | | - | |
| 6114 | 1100 | 240 | 2,134 17 | 125,641 81 |
| 6114 | 1900 | 240 | - | |
| 6114 | 9000 | 840 | 474 36 | 1,438 24 |
| 6114 | 1100 | | - | |
| 6115 | 0 | 340 | 69,219 83 | 560,601 41 |
| 6115 | 0 | | - | |
| 6116 | 1900 | 540 | (4,236,291 90) | (55,405,116 93) |
| 6116 | 9000 | 940 | 251,704 65 | 1,750,011 84 |
| 6116 | 1100 | 540 | 4,032,880 51 | 48,169,292 95 |
| 6116 | 1100 | | - | |
| 6116 | 9000 | | - | |
| 6116 | 1900 | | - | |
| 6121 | 1000 | | (109,359 63) | 5,487,494 11 |
| 6121 | 1000 | 110 | 330,887 19 | 2,662,410 88 |
| 6121 | 1000 | 10 | 35,139,830 62 | 254,435,834 48 |
| 6121 | 8000 | | - | |
| 6122 | 2000 | | - | |
| 6122 | 1000 | 130 | 1,993 92 | 17,473 74 |
| 6122 | 2000 | 30 | 1,725,321 43 | 18,867,067 00 |
| 6122 | 2000 | 31 | - | |
| 6122 | 1000 | | - | |
| 6123 | 2000 | | - | |
| 6123 | 2000 | 658 | 1,523,616 29 | 17,686,833 59 |
| 6123 | 1000 | 430 | 654,618 69 | 7,520,372 50 |
| 6123 | 1000 | | - | |
| 6124 | 1010 | 530 | 283,193 05 | 7,095,846 11 |
| 6124 | 2000 | | 18,672,396 63 | 159,464,193 12 |
| 6124 | 2000 | 930 | - | |
| 6124 | 1020 | 630 | 3,152,232 05 | 43,844,450 16 |
| 6124 | 0 | | - | |
| 6124 | 1030 | 633 | 105,141 07 | 8,102,507 70 |
| 6124 | 2000 | 530 | - | |
| 6124 | 1010 | | - | |
| 6124 | 1020 | | - | |
| 6124 | 1030 | | - | |
| 6211 | 8000 | | - | |

000167

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6211 | 1000 | | | | | | | | | | - | |
| 6211 | 1000 | 77 | | | | | | | | | - | |
| 6211 | 9000 | | | | | | | | | | - | |
| 6211 | 0 | 77 | | | | | | | | | 4,589,766 38 | 65,850,911 01 |
| 6212 | 8000 | | | | | | | | | | - | |
| 6212 | 1000 | | | | | | | | | | - | |
| 6212 | 1000 | 377 | | | | | | | | | - | |
| 6212 | 0 | 377 | | | | | | | | | 48,658,170 84 | 413,964,399 82 |
| 6215 | 2000 | | | | | | | | | | - | |
| 6215 | 1000 | | | | | | | | | | - | |
| 6215 | 1900 | | | | | | | | | | - | |
| 6215 | 3000 | | | | | | | | | | - | |
| 6220 | 3000 | | | | | | | | | | - | |
| 6220 | 3000 | 417 | | | | | | | | | - | 1,274 48 |
| 6220 | 1000 | | | | | | | | | | - | |
| 6220 | 1000 | 117 | | | | | | | | | 2,876,017 29 | 15,591,263 47 |
| 6231 | 2200 | | | | | | | | | | - | |
| 6231 | 2200 | 167 | | | | | | | | | 18,966 71 | 372,007 60 |
| 6231 | 2300 | | | | | | | | | | - | |
| 6231 | 2300 | 67 | | | | | | | | | - | 156,972 42 |
| 6232 | 1300 | | | | | | | | | | - | |
| 6232 | 1300 | 357 | | | | | | | | | 8,682,039 27 | 79,304,451 39 |
| 6232 | 1200 | | | | | | | | | | - | |
| 6232 | 1200 | 257 | | | | | | | | | 11,103,997 35 | 93,914,183 18 |
| 6232 | 2100 | | | | | | | | | | - | |
| 6232 | 2100 | 457 | | | | | | | | | 3,994 55 | 58,357 01 |
| 6232 | 1100 | | | | | | | | | | - | |
| 6232 | 1100 | 157 | | | | | | | | | 234,929 03 | 2,478,258 83 |
| 6232 | 2900 | | | | | | | | | | - | |
| 6232 | 2900 | 57 | | | | | | | | | 620,966 63 | 6,576,949 60 |
| 6232 | 1800 | | | | | | | | | | - | |
| 6311 | 2100 | | | | | | | | | | - | |
| 6311 | 2900 | | | | | | | | | | - | |
| 6311 | 1000 | | | | | | | | | | - | |
| 6311 | 1000 | 418 | | | | | | | | | 145,897 50 | 1,835,989 14 |
| 6311 | 2400 | 108 | | | | | | | | | - | |
| 6311 | 2300 | 108 | | | | | | | | | - | |
| 6311 | 2200 | 108 | | | | | | | | | - | |
| 6311 | 1000 | 958 | | | | | | | | | - | |
| 6311 | 2000 | | | | | | | | | | - | |
| 6341 | 2100 | | | | | | | | | | - | |
| 6341 | 2900 | | | | | | | | | | - | |
| 6341 | 1000 | 258 | | | | | | | | | - | |
| 6341 | 1000 | | | | | | | | | | - | |
| 6341 | 2400 | 208 | | | | | | | | | - | |
| 6341 | 2300 | 208 | | | | | | | | | - | |
| 6341 | 2200 | 208 | | | | | | | | | - | |
| 6341 | 1000 | 158 | | | | | | | | | 386,864 79 | 3,592,941 34 |
| 6341 | 2000 | | | | | | | | | | - | 56,501 89 |
| 6351 | 9000 | 988 | | | | | | | | | - | |
| 6351 | 2000 | 288 | | | | | | | | | - | |
| 6351 | 1000 | 188 | | | | | | | | | - | |
| 6351 | 1000 | 88 | | | | | | | | | - | |
| 6351 | 3000 | 78 | | | | | | | | | - | |

000168

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6351 | 1000 | | | | | | | | | | - | |
| 6351 | 1000 | 89 | | | | | | | | | - | |
| 6351 | 1000 | 189 | | | | | | | | | - | |
| 6351 | 2000 | 289 | | | | | | | | | - | |
| 6351 | 9000 | 989 | | | | | | | | | - | |
| 6362 | 4190 | | | | | | | | | | - | |
| 6362 | 4210 | 98A | | | | | | | | | - | |
| 6362 | 4290 | | | | | | | | | | - | |
| 6362 | 5110 | | | | | | | | | | - | |
| 6362 | 5190 | | | | | | | | | | - | |
| 6362 | 5210 | | | | | | | | | | - | |
| 6362 | 5290 | | | | | | | | | | - | |
| 6362 | 9900 | 958 | | | | | | | | | 140,232 83 | 2,212,349 47 |
| 6362 | 3000 | | | | | | | | | | - | |
| 6362 | 9900 | | | | | | | | | | - | 13,419 72 |
| 6362 | 9100 | 928 | | | | | | | | | 630 00 | 83,860 44 |
| 6362 | 2000 | 558 | | | | | | | | | 856,706 17 | 9,569,937 43 |
| 6362 | 5240 | 408 | | | | | | | | | - | |
| 6362 | 5230 | 408 | | | | | | | | | - | |
| 6362 | 5220 | 408 | | | | | | | | | - | |
| 6362 | 1000 | 378 | | | | | | | | | 551,065 88 | 6,761,080 98 |
| 6362 | 1000 | 358 | | | | | | | | | - | |
| 6362 | 1000 | | | | | | | | | | - | |
| 6362 | 5140 | 308 | | | | | | | | | - | |
| 6362 | 5130 | 308 | | | | | | | | | - | |
| 6362 | 5120 | 308 | | | | | | | | | - | |
| 6362 | 5110 | 308 | | | | | | | | | - | |
| 6362 | 4240 | 98K | | | | | | | | | - | |
| 6362 | 4230 | 98K | | | | | | | | | - | |
| 6362 | 4210 | 98K | | | | | | | | | - | |
| 6362 | 4240 | 98F | | | | | | | | | - | |
| 6362 | 4230 | 98F | | | | | | | | | - | |
| 6362 | 4210 | 98F | | | | | | | | | - | |
| 6362 | 4240 | 98 | | | | | | | | | - | |
| 6362 | 4230 | 98 | | | | | | | | | - | |
| 6362 | 4220 | 98 | | | | | | | | | - | |
| 6362 | 4210 | 98 | | | | | | | | | - | |
| 6362 | 4240 | 98 | | | | | | | | | - | |
| 6362 | 4230 | 98 | | | | | | | | | - | |
| 6362 | 4220 | 98 | | | | | | | | | - | |
| 6362 | 4210 | | | | | | | | | | - | |
| 6362 | 4140 | 97 | | | | | | | | | - | |
| 6362 | 4130 | 97 | | | | | | | | | - | |
| 6362 | 4120 | 97 | | | | | | | | | - | |
| 6362 | 4110 | 97 | | | | | | | | | - | |
| 6362 | 9900 | 68 | | | | | | | | | 9,586,528 08 | 87,664,394 30 |
| 6362 | 9900 | 968 | | | | | | | | | - | (7,143 67) |
| 6362 | 6100 | 108 | | | | | | | | | - | |
| 6362 | 6200 | 208 | | | | | | | | | - | |
| 6362 | 7000 | | | | | | | | | | 1,746,251 58 | 14,420,821 20 |
| 6362 | 9900 | 948 | | | | | | | | | - | |
| 6362 | 9900 | 988 | | | | | | | | | - | |
| 6362 | 6000 | 108 | | | | | | | | | - | |
| 6362 | 6000 | 308 | | | | | | | | | - | |

000169

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6362 | 6000 | 408 | | | | | | | | | - | |
| 6362 | 4110 | | | | | | | | | | - | |
| 6362 | 4120 | | | | | | | | | | - | |
| 6362 | 4130 | | | | | | | | | | - | |
| 6362 | 4140 | | | | | | | | | | - | |
| 6362 | 4230 | | | | | | | | | | - | |
| 6362 | 4240 | | | | | | | | | | - | |
| 6362 | 9900 | 978 | | | | | | | | | - | (6,276 05) |
| 6362 | 5000 | | | | | | | | | | - | |
| 6411 | 1000 | | | | | | | | | | - | |
| 6411 | 1000 | 1 | | | | | | | | | - | |
| 6411 | 0 | 1 | | | | | | | | | 11,007,718 59 | 83,249,917 12 |
| 6421 | 2000 | | | | | | | | | | - | |
| 6421 | 2000 | 822 | | | | | | | | | 502,332 94 | 2,183,357 85 |
| 6421 | 2000 | 812 | | | | | | | | | 20,231 82 | 317,762 71 |
| 6421 | 1100 | 22 | | | | | | | | | - | |
| 6421 | 1100 | | | | | | | | | | - | |
| 6421 | 1100 | 12 | | | | | | | | | - | |
| 6421 | 2900 | | | | | | | | | | - | |
| 6421 | 1000 | 248 | | | | | | | | | 9,703,489 18 | 70,533,083 32 |
| 6421 | 1000 | 312 | | | | | | | | | - | |
| 6421 | 1000 | 322 | | | | | | | | | - | |
| 6421 | 1000 | 348 | | | | | | | | | 17 91 | 73 04 |
| 6421 | 1000 | 22 | | | | | | | | | 37,020,649 68 | 220,003,534 96 |
| 6421 | 1000 | 12 | | | | | | | | | 1,292,917 44 | 18,255,279 72 |
| 6422 | 1800 | | | | | | | | | | - | |
| 6422 | 2100 | | | | | | | | | | - | |
| 6422 | 2000 | | | | | | | | | | - | |
| 6422 | 2000 | 85 | | | | | | | | | 240,596 75 | 2,039,201 57 |
| 6422 | 1100 | 5 | | | | | | | | | - | |
| 6422 | 1000 | | | | | | | | | | - | |
| 6422 | 1000 | 5 | | | | | | | | | 6,024,163 13 | 59,697,934 68 |
| 6422 | 2900 | | | | | | | | | | - | |
| 6422 | 1000 | 35 | | | | | | | | | - | |
| 6423 | 2100 | | | | | | | | | | - | |
| 6423 | 2100 | 845 | | | | | | | | | - | |
| 6423 | 2000 | | | | | | | | | | - | |
| 6423 | 2000 | 845 | | | | | | | | | 260,099 39 | 4,423,228 08 |
| 6423 | 1000 | 45 | | | | | | | | | 44,068,289 25 | 497,216,004 37 |
| 6423 | 1100 | | | | | | | | | | - | |
| 6423 | 1100 | 45 | | | | | | | | | - | |
| 6423 | 1000 | | | | | | | | | | - | |
| 6423 | 1800 | | | | | | | | | | - | |
| 6423 | 2800 | | | | | | | | | | - | |
| 6423 | 1000 | 548 | | | | | | | | | 8,240,585 74 | 91,824,675 36 |
| 6423 | 1000 | 445 | | | | | | | | | 911 59 | 68,285 33 |
| 6423 | 1000 | 448 | | | | | | | | | - | 196 85 |
| 6424 | 2000 | | | | | | | | | | - | |
| 6424 | 2000 | 86 | | | | | | | | | - | 340 13 |
| 6424 | 1000 | | | | | | | | | | - | |
| 6424 | 1000 | 6 | | | | | | | | | 158 91 | 23,85 1 44 |
| 6424 | 1800 | | | | | | | | | | - | |
| 6426 | 2000 | | | | | | | | | | - | |
| 6426 | 2000 | 852 | | | | | | | | | 4,697 70 | 31,975 20 |

000170

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6426 | 1000 | | | | | | | | | | - | |
| 6426 | 1000 | 52 | | | | | | | | | 199,651 20 | 2,456,150 78 |
| 6426 | 1000 | 352 | | | | | | | | | 220 06 | 9,318 60 |
| 6431 | 0 | | | | | | | | | | - | |
| 6441 | 8000 | | | | | | | | | | - | |
| 6441 | 0 | | | | | | | | | | - | |
| 6441 | 0 | 4 | | | | | | | | | 515,902 91 | 8,780,441 45 |
| 6511 | 0 | | | | | | | | | | - | |
| 6512 | 1100 | | | | | | | | | | 1,713,744 23 | 19,387,991 57 |
| 6512 | 1700 | | | | | | | | | | (1,984,090 54) | (21,314,039 17) |
| 6512 | 2100 | | | | | | | | | | - | |
| 6512 | 2700 | | | | | | | | | | - | |
| 6512 | 6000 | | | | | | | | | | 1,450,642 82 | 8,563,112 40 |
| 6512 | 1200 | | | | | | | | | | 38,311 79 | 1,038,732 67 |
| 6512 | 3100 | | | | | | | | | | - | |
| 6512 | 3700 | | | | | | | | | | - | |
| 6512 | 4100 | | | | | | | | | | 4,699,987 60 | 41,939,316 73 |
| 6512 | 4700 | | | | | | | | | | (4,300,090 21) | (37,980,698 34) |
| 6531 | 0 | | | | | | | | | | 6,089,622 43 | 52,357,604 78 |
| 6532 | 1000 | | | | | | | | | | 1,764,626 40 | 14,804,910 73 |
| 6532 | 2000 | | | | | | | | | | 4,948,237 96 | 34,308,115 08 |
| 6532 | 8000 | | | | | | | | | | - | |
| 6532 | 9000 | | | | | | | | | | - | |
| 6533 | 1000 | | | | | | | | | | 6,608,392 37 | 78,317,868 39 |
| 6533 | 4100 | | | | | | | | | | - | |
| 6533 | 4200 | | | | | | | | | | - | |
| 6533 | 3500 | | | | | | | | | | 50,816 14 | 94,667 92 |
| 6533 | 2000 | | | | | | | | | | 814,626 92 | 5,873,350 88 |
| 6533 | 3400 | | | | | | | | | | 5,218,753 68 | 46,459,564 07 |
| 6533 | 3200 | | | | | | | | | | 2,778,810 21 | 25,611,170 69 |
| 6533 | 3300 | | | | | | | | | | 613,370 86 | 5,930,221 01 |
| 6533 | 3100 | | | | | | | | | | 505,602 74 | 4,702,532 76 |
| 6534 | 0 | | | | | | | | | | - | |
| 6534 | 1100 | | | | | | | | | | 24,158,020 81 | 290,017,039 24 |
| 6534 | 1900 | | | | | | | | | | (2,736,991 08) | (35,835,096 70) |
| 6534 | 2000 | | | | | | | | | | (3,265,826 79) | (10,097,085 68) |
| 6535 | 0 | | | | | | | | | | - | |
| 6535 | 1100 | | | | | | | | | | 8,084,275 68 | 88,536,883 53 |
| 6535 | 1900 | | | | | | | | | | (1,208,200 96) | (11,087,281 99) |
| 6535 | 2000 | | | | | | | | | | 14,585,792 72 | 161,198,229 64 |
| 6540 | 2000 | | | | | | | | | | 13,828,372 66 | 109,617,511 92 |
| 6540 | 1000 | | | | | | | | | | 114,600 00 | 5,865,428 90 |
| 6540 | 3000 | | | | | | | | | | 13,687,434 59 | 141,293,046 10 |
| 6561 | 1100 | | | | | | | | | | 345,023,772 46 | 3,284,650,522 84 |
| 6561 | 1800 | | | | | | | | | | - | |
| 6561 | 1900 | | | | | | | | | | - | |
| 6561 | 2100 | | | | | | | | | | - | 99 37 |
| 6561 | 2400 | | | | | | | | | | - | |
| 6562 | 0 | | | | | | | | | | - | 940 02 |
| 6563 | 1000 | | | | | | | | | | 556,386 51 | 1,977,334 23 |
| 6563 | 2000 | | | | | | | | | | 553,241 13 | 8,254,571 86 |
| 6564 | 0 | | | | | | | | | | - | 320,148 51 |
| 6565 | 1000 | | | | | | | | | | - | |
| 6565 | 2000 | | | | | | | | | | 4,465,566 40 | 37,509,097 55 |

0001271

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6611 | 0 | | | | | | | | | | 12,143,456 63 | 116,205,769 10 |
| 6612 | 0 | | | | | | | | | | 41,627,778 83 | 372,562 310 67 |
| 6613 | 0 | | | | | | | | | | 7,892,835 85 | 88,104,492 42 |
| 6621 | 0 | | | | | | | | | | 4,483,503 95 | 38,524 043 17 |
| 6622 | 1000 | | | | | | | | | | 2,017,146 45 | 17,825,529 08 |
| 6622 | 2000 | | | | | | | | | | 23,404,060 01 | 132,526,395 09 |
| 6623 | 0 | | | | | | | | | | 120,936,611 97 | 1,145,368,918 55 |
| 6711 | 0 | | | | | | | | | | 6,298,986 61 | 58,141 302 29 |
| 6712 | 0 | | | | | | | | | | 3,098,727 37 | 27,094,357 01 |
| 6721 | 0 | | | | | | | | | | 8,382,360 11 | 73,921,519 95 |
| 6722 | 0 | | | | | | | | | | 11,298,040 09 | 97,173,032 83 |
| 6723 | 0 | | | | | | | | | | 12,328,333 95 | 111,859,422 60 |
| 6724 | 0 | | | | | | | | | | 44,640,292 15 | 380,964,528 40 |
| 6725 | 0 | | | | | | | | | | 4,083,171 27 | 42,292,695 13 |
| 6726 | 0 | | | | | | | | | | 6,483,367 26 | 48,161,358 92 |
| 6727 | 0 | | | | | | | | | | 2,052,208 17 | 17,893,924 70 |
| 6728 | 1100 | | | | | | | | | | 4,557,706 25 | 39,068,489 01 |
| 6728 | 1200 | | | | | | | | | | (2,603,512 39) | (21,947,194 89) |
| 6728 | 1300 | | | | | | | | | | (434,175 75) | (3,868,474 80) |
| 6728 | 1400 | | | | | | | | | | 2,105 53 | 18,029 16 |
| 6728 | 2000 | | | | | | | | | | 473,697 96 | 4,505,122 86 |
| 6728 | 3000 | | | | | | | | | | (1,366,400 14) | (11,885,042 40) |
| 6728 | 4000 | | | | | | | | | | 1,526,716 97 | 14,926,755 41 |
| 6728 | 5000 | | | | | | | | | | 11,338,500 18 | 109,127,272 76 |
| 6728 | 7100 | | | | | | | | | | - | |
| 6728 | 7200 | | | | | | | | | | - | |
| 6728 | 8000 | | | | | | | | | | - | |
| 6728 | 9000 | | | | | | | | | | 1,002,259 97 | (6,294,189 81) |
| 6728 | 1500 | | | | | | | | | | - | |
| 6728 | 1610 | | | | | | | | | | - | |
| 6728 | 1900 | | | | | | | | | | 366,114 43 | 3,138 317 75 |
| 6728 | 7000 | | | | | | | | | | 6,707,829 54 | (139,317 34) |
| 6790 | 0 | | | | | | | | | | - | (18 00) |
| RTU Cap Adjustment | | | | | | | | | | | | |
| 6,211 | | 77 | | | | | | | | | -1,940,000 | -17,592 000 |
| 6,212 | | 377 | | | | | | | | | -17,083,000 | -154,888,000 |
| 6,220 | | 117 | | | | | | | | | -642,000 | -5,816,000 |
| 6,232 | | 157 | | | | | | | | | -1,240 | -13,588 |
| 6,232 | | 257 | | | | | | | | | -58,623 | -505 694 |
| 6,232 | | 357 | | | | | | | | | -45,637 | -432 865 |
| 6,232 | | 57 | | | | | | | | | -3,299 | -36,853 |

000172

## Average 2000-2002 Expense Projections (YEARLY)

SCALE=000

| Account | Description | Tennessee | BS |
|---|---|---|---|
| 6110 | Network Support | 836 | 1,591 |
| 6120 | General Support | 68,115 | 579,958 |
| 6210 | CO Switching | 37,676 | 338,325 |
| 6220 | CO Opeator Systems | 2,459 | 10,762 |
| 6230 | CO Transmission | 22,629 | 195,032 |
| 6310 | Inf/Org/Term | 14,767 | 137,749 |
| 6410 | Cable & Wire | 131,112 | 1,157,581 |
| | Total | 277,593 | 2,420,999 |



000273

SUMMARY OF CURRENT COST / BOOK COST RATIO

| | Description | ACCT | FRC | TN |
|---|---|---|---|---|
| Gen Support | Motor Vehicles | 2112 | | 1.060 |
| Gen Support | Aircraft | 2113 | | 0.000 |
| Gen Support | Garage Work Equip | 2115 | | 1.240 |
| Gen Support | Other Work Equip | 2116 | | 1.197 |
| Gen Support | Buildings | 2121 | 10 | 1.991 |
| Gen Support | Office Support Equip | 2123 | | 1.104 |
| Cen Office | Computers | 2124 | 530 | 0.589 |
| Cen Office | Analog-ESS | 2211 | 77 | 1.555 |
| Cen Office | Digital ESS | 2212 | 377 | 1.105 |
| Cen Office | Step-by-Step | 2215 | | 0.000 |
| Cen Office | Operator Systems | 2220 | 117 | 1.089 |
| Cen Office | Radio System | 2231 | 67 | 1.361 |
| Cen Office | Circuit-DDS | 2232 | 157 | 0.946 |
| IOT | Circuit-Other than DSS | 2232 | 357 | 1.001 |
| IOT | PBX | 2341 | | 1.009 |
| Ca and Wire | Public Telephone | 2351 | | 0.000 |
| Ca and Wire | Other Terminal Equipment | 2362 | | 1.007 |
| Ca and Wire | Poles | 2411 | 1 | 2.520 |
| Ca and Wire | Aerial Cable-Metallic | 2421 | 22 | 1.599 |
| Ca and Wire | Aerial Cable-Fiber | 2421 | 812 | 0.922 |
| Ca and Wire | Underground Cable-Metallic | 2422 | 5 | 1.640 |
| Ca and Wire | Underground cable-Fiber | 2422 | 85 | 0.847 |
| Ca and Wire | Buried cable-Metallic | 2423 | 45 | 1.446 |
| Ca and Wire | Buried Cable-Fiber | 2423 | 845 | 0.984 |
| Ca and Wire | Submarine Cable | 2424 | 6 | 1.484 |
| Ca and Wire | Intrabuilding cable-Metal | 2426 | 52 | 1.392 |
| Ca and Wire | Intrabuilding Cable-Fiber | 2426 | 852 | 0.946 |
| IOT | Aerial Wire | | | 0.000 |
| Gen Support | Conduit Systems | 2441 | 4 | 1.759 |
| IOT | Station Apparatus | 2311 | | 1.030 |
| Gen Support | Furniture | 2122 | | 1.370 |
| | | | | 1.015 |

0001174

**BELLSOUTH TELECOMMUNICATIONS**
**NET ADDTIONS**
**1999**

**INVESTMENT DATA - NET ADDITIONS**

| ACCT | FRC | SCALE = 000 | TN | BS |
|---|---|---|---|---|
| 2111 | | LAND | -600 | -1,100 |
| 2121 | | BUILDINGS | 12,027 | 118,859 |
| 2124 | | GENERAL PURPOSE COMPUTERS | 0 | -50,606 |
| 2211 | | ANALOG ELECTRONIC SWITCHING | -264 | -128,669 |
| 2212 | | DIGITAL ELECTRONIC SWITCHING | 77,376 | 821,894 |
| 2220 | | OPERATOR SERVICES | 593 | 1,350 |
| 2232 | 257 | DIGITAL LOOP ELECTRONICS (DLE) | 62,578 | 527,234 |
| 2231 | | RADIO | -153 | -4,087 |
| 2232 | 157 | DIGITAL DATA STYSTEMS | 200 | 4,183 |
| 2232 | 357 | DIGITAL CIRCUIT | 28,418 | 292,868 |
| 2232 | 57 | ANALOG CIRCUIT | -1,168 | -14,389 |
| 2411 | | POLES | 5,620 | 32,825 |
| 2421 | 22 | AERIAL CABLE - METALLIC | 0 | 0 |
| 2421 | 812 | AREIAL CABLE - NON-METALLIC | 0 | 0 |
| 2422 | 5 | U. G. CABLE - METALLIC | 0 | 0 |
| 2422 | 85 | U. G. CABLE - NON-METALLIC | 0 | 0 |
| 2423 | 45 | BURIED CABLE - METALLIC | 0 | 0 |
| 2423 | 845 | BURIED CABLE - NON-METALLIC | 0 | 0 |
| 2424 | 6 | SUBMARINE CABLE - METALLIC | 0 | 0 |
| 2424 | 86 | SUBMARINE CABLE - NON-METALLIC | 0 | 0 |
| 2426 | 52 | INTRABUILDING CA - METALLIC | 0 | 0 |
| 2426 | 852 | INTRABUILDING CA - NON-METALLIC | 0 | 0 |
| 2441 | | CONDUIT | 5,037 | 47,440 |
| 2124 | 630 | Data Communications | 702 | 70,041 |

**BELLSOUTH TELECOMMUNICATIONS** **INVESTMENT DATA - NET ADDITIONS**

**NET ADDTIONS**

**2000**

| ACCT | FRC | SCALE = 000 | TN | BS |
|---|---|---|---|---|
| 2111 | | LAND | 0 | 0 |
| 2121 | | BUILDINGS | 11,874 | 11,874 |
| 2124 | | GENERAL PURPOSE COMPUTERS | 0 | 0 |
| 2211 | | ANALOG ELECTRONIC SWITCHING | -277 | -277 |
| 2212 | | DIGITAL ELECTRONIC SWITCHING | 62,556 | 62,556 |
| 2220 | | OPERATOR SERVICES | 747 | 747 |
| 2232 | 257 | DIGITAL LOOP ELECTRONICS (DLE) | 56,853 | 56,853 |
| 2231 | | RADIO | -174 | -174 |
| 2232 | 157 | DIGITAL DATA STYSTEMS | 68 | 68 |
| 2232 | 357 | DIGITAL CIRCUIT | 28,296 | 28,296 |
| 2232 | 57 | ANALOG CIRCUIT | -1,268 | -1,268 |
| 2411 | | POLES | 5,567 | 5,567 |
| 2421 | 22 | AERIAL CABLE - METALLIC | 0 | 0 |
| 2421 | 812 | AREIAL CABLE - NON-METALLIC | 0 | 0 |
| 2422 | 5 | U. G. CABLE - METALLIC | 0 | 0 |
| 2422 | 85 | U. G. CABLE - NON-METALLIC | 0 | 0 |
| 2423 | 45 | BURIED CABLE - METALLIC | 0 | 0 |
| 2423 | 845 | BURIED CABLE - NON-METALLIC | 0 | 0 |
| 2424 | 6 | SUBMARINE CABLE - METALLIC | 0 | 0 |
| 2424 | 86 | SUBMARINE CABLE - NON-METALLIC | 0 | 0 |
| 2426 | 52 | INTRABUILDING CA - METALLIC | 0 | 0 |
| 2426 | 852 | INTRABUILDING CA - NON-METALLIC | 0 | 0 |
| 2441 | | CONDUIT | 4,989 | 4,989 |
| 2124 | 630 | Data Communications | 149 | 10,386 |

**BELLSOUTH TELECOMMUNICATIONS**
**NET ADDTIONS**

**INVESTMENT DATA - NET ADDITIONS**

**2001**

| ACCT | FRC | SCALE = 000 | TN | BS |
|---|---|---|---|---|
| 2111 | | LAND | 0 | 400 |
| 2121 | | BUILDINGS | 12,864 | 124,896 |
| 2124 | | GENERAL PURPOSE COMPUTERS | 0 | -150,394 |
| 2211 | | ANALOG ELECTRONIC SWITCHING | -65 | -84,796 |
| 2212 | | DIGITAL ELECTRONIC SWITCHING | 14,968 | 700,226 |
| 2220 | | OPERATOR SERVICES | 768 | 4,107 |
| 2232 | 257 | DIGITAL LOOP ELECTRONICS (DLE) | 56,498 | 459,568 |
| 2231 | | RADIO | -174 | -2,230 |
| 2232 | 157 | DIGITAL DATA STYSTEMS | 68 | 3,575 |
| 2232 | 357 | DIGITAL CIRCUIT | 28,265 | 284,516 |
| 2232 | 57 | ANALOG CIRCUIT | -1,267 | -16,739 |
| 2411 | | POLES | 5,567 | 32,311 |
| 2421 | 22 | AERIAL CABLE - METALLIC | 23,193 | 183,763 |
| 2421 | 812 | AREIAL CABLE - NON-METALLIC | 1,166 | 12,124 |
| 2422 | 5 | U. G. CABLE - METALLIC | 2,716 | 21,520 |
| 2422 | 85 | U. G. CABLE - NON-METALLIC | 840 | 8,728 |
| 2423 | 45 | BURIED CABLE - METALLIC | 47,341 | 375,086 |
| 2423 | 845 | BURIED CABLE - NON-METALLIC | 15,084 | 156,786 |
| 2424 | 6 | SUBMARINE CABLE - METALLIC | -6 | -50 |
| 2424 | 86 | SUBMARINE CABLE - NON-METALLIC | -2 | -16 |
| 2426 | 52 | INTRABUILDING CA - METALLIC | -75 | -590 |
| 2426 | 852 | INTRABUILDING CA - NON-METALLIC | 0 | 0 |
| 2441 | | CONDUIT | 4,919 | 45,903 |
| 2124 | 630 | Data Communications | 161 | 10,386 |

000177

**BELLSOUTH TELECOMMUNICATIONS**
**NET ADDTIONS**
**2002**

**INVESTMENT DATA - NET ADDITIONS**

| ACCT | FRC | SCALE = 000 | TN | BS |
|---|---|---|---|---|
| 2111 | | LAND | 0 | 400 |
| 2121 | | BUILDINGS | 12,855 | 125,174 |
| 2124 | | GENERAL PURPOSE COMPUTERS | -3,469 | -104,475 |
| 2211 | | ANALOG ELECTRONIC SWITCHING | -8,085 | -135,673 |
| 2212 | | DIGITAL ELECTRONIC SWITCHING | 71,134 | 724,235 |
| 2220 | | OPERATOR SERVICES | 485 | 4,464 |
| 2232 | 257 | DIGITAL LOOP ELECTRONICS (DLE) | 54,786 | 465,811 |
| 2231 | | RADIO | -177 | -2,299 |
| 2232 | 157 | DIGITAL DATA STYSTEMS | 69 | 3,994 |
| 2232 | 357 | DIGITAL CIRCUIT | 28,820 | 295,512 |
| 2232 | 57 | ANALOG CIRCUIT | -1,292 | -17,729 |
| 2411 | | POLES | 5,421 | 32,615 |
| 2421 | 22 | AERIAL CABLE - METALLIC | 0 | 0 |
| 2421 | 812 | AREIAL CABLE - NON-METALLIC | 0 | 0 |
| 2422 | 5 | U. G. CABLE - METALLIC | 0 | 0 |
| 2422 | 85 | U. G. CABLE - NON-METALLIC | 0 | 0 |
| 2423 | 45 | BURIED CABLE - METALLIC | 0 | 0 |
| 2423 | 845 | BURIED CABLE - NON-METALLIC | 0 | 0 |
| 2424 | 6 | SUBMARINE CABLE - METALLIC | 0 | 0 |
| 2424 | 86 | SUBMARINE CABLE - NON-METALLIC | 0 | 0 |
| 2426 | 52 | INTRABUILDING CA - METALLIC | 0 | 0 |
| 2426 | 852 | INTRABUILDING CA - NON-METALLIC | 0 | 0 |
| 2441 | | CONDUIT | 4,858 | 46,272 |
| 2124 | 630 | Data Communications | 557 | 10,386 |

000178

# BASIC ECONOMIC INPUTS FOR CAPITAL COST CALCULATOR

5/18/2000

| Number | Description | Value |
|---|---|---|
| 1 | Debt Ratio | 0.4000 |
| 2 | Debt Interest Rate | .0707 |
| 3 | Income Tax Rate | 0.3871 |
| 4 | Investment | $1.00 |
| 5 | Cost of Money (Rate of Return) | .0993 |
| 6 | Cost of Equity | 0.118367 |
| 7 | | |
| 8 | Timestamp: 2/12/99 7:59:02 AM | |

Cost of Money = User Input or
COE * (1 - Debt Ratio) + (Debt Ratio * Debt Interest Rate)

Cost of Equity = User Input or
(COM - Debt Ratio * Debt Interest Rate) / (1 - Debt Ratio)



Source: BellSouth's Capital Cost Calculator

USOA Part 32 ACCOUNTS INPUT FACTORS FOR CAPITAL COST CALCULATOR
5/18/2000

| Number | Description | FRC | Life (Years) | Net Salvage |
|---|---|---|---|---|
| 1 | Buildings | 10C | 45 | .01 |
| | Land | 20C | 98.0 | 1.0000 |
| | | | | |
| 4 | Motor Vehicles | 40C | 8 | .16 |
| 5 | Spc Purpose Vehicles | 240C | 8 | .16 |
| 6 | Garage Work Equip | 340C | 23 | -.01 |
| 7 | Other Work Equip | 540C | 23 | -.01 |
| 8 | | | | |
| 9 | Furniture | 130C | 18 | 0.0900 |
| 10 | Ofc Support Equip | 430C | 12 | .28 |
| 11 | | | | |
| 12 | Corp Comm Equip | 718C | 6 | .28 |
| 13 | Gen Purpose Comp, Other | 530C | 7 | .02 |
| 14 | G P Comp, Data Cont & Wrksta | 630C | 7 | .02 |
| 15 | | | | |
| 16 | Analog Elec Switch | 77C | 4.2 | .03 |
| 17 | Digital Elec Switch | 377C | 17 | .04 |
| 18 | | | | |
| 19 | Operator Systems | 117C | 14 | .05 |
| 20 | | | | |
| 21 | Radio | 67C | 14.5 | 0 |
| 22 | | | | |
| 23 | Digital Circ - DDS | 157C | 8 | .02 |
| 24 | Digital Circ - Pair Gain | 257C | 11 | 0.0000 |
| 25 | Digital Circ - Other | 357C | 11 | 0.0000 |
| 26 | Analog Circ - Pair Gain | 457C | 11 | 0 |
| 27 | Analog Circ - Other | 57C | 11 | 0 |
| | | | | |
| 29 | Large PBX | 158C | 6 | -.04 |
| 30 | Other Terminal Equip | 378C | 6.0 | .03 |
| 31 | | | | |
| 32 | Poles | 1C | 37 | -.48 |
| 33 | Aerial Ca - Metal - Bldg Enter | 12C | 20 | -.15 |
| 34 | Aerial Ca - Metal | 22C | 20 | -.15 |
| 35 | Aerial Ca - Fiber - Bldg Enter | 812C | 30 | -.20 |
| 36 | Aerial Ca - Fiber | 822C | 30 | -.2 |
| 37 | Buried Ca - Metal | 45C | 21 | -.05 |
| 38 | Buried Ca - Fiber | 845C | 30 | -.09 |
| 39 | Underground Ca - Metal | 5C | 25 | -.08 |
| 40 | Underground Ca - Fiber | 85C | 30 | -.2 |
| 41 | Submarine Ca - Metal | 6C | 25 | -.01 |
| 42 | Submarine Ca - Fiber | 86C | 25 | -.01 |
| 43 | INTA Bldg Ntwk Ca - Metal | 52C | 22 | -.1 |
| 44 | INTA Bldg Ntwk Ca - Fiber | 852C | 22 | -.1 |
| 45 | | | | |
| 46 | Conduit Systems | 4C | 65 | -.05 |
| 47 | | | | |
| 48 | Timestamp: 2/12/99 7:59:02 AM | | | |



Source: BellSouth's Capital Cost Calculator

5 18 2000

| Nbr | Description | FRC | Life (Years) | COM | AP | Phi | Net Salvage | Adj Invest |
|---|---|---|---|---|---|---|---|---|
| 1 | Buildings | 10C | 43 | .0993 | 0.1010 | 0.4517 | 01 | 0 9900 |
| 2 | Land | 20C | 98.0 | 0993 | 0.0993 | 0 4517 | 1 0000 | 0 0000 |
| | Motor Vehicles | 40C | 8 | .0993 | 0.1870 | 0.4517 | .16 | 0.8400 |
| 5 | Spc Purpose Vehicles | 240C | 8 | .0993 | 0.1870 | 0.4517 | .16 | 0.8400 |
| 6 | Garage Work Equip | 340C | 23 | .0993 | 0.1120 | 0.4517 | -.01 | 1.0100 |
| 7 | Other Work Equip | 540C | 23 | .0993 | 0.1120 | 0.4517 | -.01 | 1.0100 |
| 8 | | | | | | | | |
| 9 | Furniture | 130C | 18 | .0993 | 0.1214 | 0.4517 | 0.0900 | 0.9100 |
| 10 | Ofc Support Equip | 430C | 12 | .0993 | 0.1463 | 0.4517 | .28 | 0.7200 |
| 11 | | | | | | | | |
| 12 | Corp Comm Equip | 718C | 6 | .0993 | 0.2291 | 0.4517 | .28 | 0.7200 |
| 13 | Gen Purpose Comp, Other | 530C | 7 | .0993 | 0.2049 | 0.4517 | .02 | 0.9800 |
| 14 | G P Comp, Data Cont & Wrksta | 630C | 7 | .0993 | 0.2049 | 0.4517 | .02 | 0.9800 |
| 15 | | | | | | | | |
| 16 | Analog Elec Switch | 77C | 4.2 | .0993 | 0.3027 | 0.4517 | .03 | 0.9700 |
| 17 | Digital Elec Switch | 377C | 17 | .0993 | 0.1241 | 0.4517 | .04 | 0.9600 |
| 18 | | | | | | | | |
| 19 | Operator Systems | 117C | 14 | .0993 | 0.1352 | 0.4517 | .05 | 0.9500 |
| 20 | | | | | | | | |
| 21 | Radio | 67C | 14.5 | .0993 | 0.1330 | 0.4517 | 0 | 1.0000 |
| 22 | | | | | | | | |
| 23 | Digital Circ - DDS | 157C | 8 | .0993 | 0.1870 | 0.4517 | .02 | 0.9800 |
| 24 | Digital Circ - Pair Gain | 257C | 11 | .0993 | 0.1535 | 0.4517 | 0.0000 | 1.0000 |
| 25 | Digital Circ - Other | 357C | 11 | .0993 | 0.1535 | 0.4517 | 0.0000 | 1.0000 |
| 26 | Analog Circ - Pair Gain | 457C | 11 | .0993 | 0.1535 | 0.4517 | 0 | 1.0000 |
| 27 | Analog Circ - Other | 57C | 11 | .0993 | 0.1535 | 0.4517 | 0 | 1.0000 |
| | Large PBX | 158C | 6 | .0993 | 0.2291 | 0.4517 | -.04 | 1.0400 |
| 30 | Other Terminal Equip | 378C | 6.0 | .0993 | 0.2291 | 0.4517 | .03 | 0.9700 |
| 31 | | | | | | | | |
| 32 | Poles | 1C | 37 | .0993 | 0.1024 | 0.4517 | -.48 | 1.4800 |
| 33 | Aerial Ca - Metal - Bldg Enter | 12C | 20 | .0993 | 0.1169 | 0.4517 | -.15 | 1.1500 |
| 34 | Aerial Ca - Metal | 22C | 20 | .0993 | 0.1169 | 0.4517 | -.15 | 1.1500 |
| 35 | Aerial Ca - Fiber - Bldg Enter | 812C | 30 | .0993 | 0.1055 | 0.4517 | -.20 | 1.2000 |
| 36 | Aerial Ca - Fiber | 822C | 30 | .0993 | 0.1055 | 0.4517 | -.2 | 1.2000 |
| 37 | Buried Ca - Metal | 45C | 21 | .0993 | 0.1151 | 0.4517 | -.05 | 1.0500 |
| 38 | Buried Ca - Fiber | 845C | 30 | .0993 | 0.1055 | 0.4517 | -.09 | 1.0900 |
| 39 | Underground Ca - Metal | 5C | 25 | .0993 | 0.1096 | 0.4517 | -.08 | 1.0800 |
| 40 | Underground Ca - Fiber | 85C | 30 | .0993 | 0.1055 | 0.4517 | -.2 | 1.2000 |
| 41 | Submarine Ca - Metal | 6C | 25 | .0993 | 0.1096 | 0.4517 | -.01 | 1.0100 |
| 42 | Submarine Ca - Fiber | 86C | 25 | .0993 | 0.1096 | 0.4517 | -.01 | 1.0100 |
| 43 | INTA Bldg Ntwk Ca - Metal | 52C | 22 | .0993 | 0.1134 | 0.4517 | -.1 | 1.1000 |
| 44 | INTA Bldg Ntwk Ca - Fiber | 852C | 22 | .0993 | 0.1134 | 0.4517 | -.1 | 1.1000 |
| 45 | | | | | | | | |
| 46 | Conduit Systems | 4C | 65 | .0993 | 0.0995 | 0.4517 | -.05 | 1.0500 |
| 47 | | | | | | | | |
| 48 | Timestamp: 2/12/99 7:59:18 AM | Deflt | | | | | | |

Life Years = Input
Rate of Return (COM, Cost of Money) = Input
A/P = (COM * (1 + COM)^Life) / (((1 + COM)^Life) - 1)
Phi = (Income Tax Rate / (1 - Income Tax Rate)) * (1 - ((Debt Ratio * Debt Interest Rate) / COM))
Net Salvage = Input
Adjusted Investment = (1 - Net Salvage) * Investment

Calculations rounded to four (4) decimal places.

Source: BellSouth's Capital Cost Calculator

| Number | Description | FRC | Depreciation | ACFC COM | ACFC Tax | Cap Exp |
|---|---|---|---|---|---|---|
| 1 | Buildings | 10C | 0.0230 | 0.0780 | 0.0352 | 0.1362 |
| 2 | Land | 20C | 0.0000 | 0.0993 | 0.0449 | 0.1442 |
| | | | | | | |
| | Motor Vehicles | 40C | 0.1050 | 0.0679 | 0.0307 | 0.2036 |
| 5 | Spc Purpose Vehicles | 240C | 0.1050 | 0.0679 | 0.0307 | 0.2036 |
| 6 | Garage Work Equip | 340C | 0.0439 | 0.0682 | 0.0308 | 0.1429 |
| 7 | Other Work Equip | 540C | 0.0439 | 0.0682 | 0.0308 | 0.1429 |
| 8 | | | | | | |
| 9 | Furniture | 130C | 0.0506 | 0.0688 | 0.0311 | 0.1505 |
| 10 | Ofc Support Equip | 430C | 0.0600 | 0.0731 | 0.0330 | 0.1661 |
| 11 | | | | | | |
| 12 | Corp Comm Equip | 718C | 0.1200 | 0.0728 | 0.0329 | 0.2257 |
| 13 | Gen Purpose Comp, Other | 530C | 0.1400 | 0.0628 | 0.0284 | 0.2312 |
| 14 | G P Comp, Data Cont & Wrksta | 630C | 0.1400 | 0.0628 | 0.0284 | 0.2312 |
| 15 | | | | | | |
| 16 | Analog Elec Switch | 77C | 0.2310 | 0.0656 | 0.0296 | 0.3262 |
| 17 | Digital Elec Switch | 377C | 0.0565 | 0.0667 | 0.0301 | 0.1532 |
| 18 | | | | | | |
| 19 | Operator Systems | 117C | 0.0679 | 0.0656 | 0.0296 | 0.1631 |
| 20 | | | | | | |
| 21 | Radio | 67C | 0.0690 | 0.0640 | 0.0289 | 0.1619 |
| 22 | | | | | | |
| 23 | Digital Circ - DDS | 157C | 0.1225 | 0.0627 | 0.0283 | 0.2135 |
| 24 | Digital Circ - Pair Gain | 257C | 0.0909 | 0.0626 | 0.0283 | 0.1817 |
| 25 | Digital Circ - Other | 357C | 0.0909 | 0.0626 | 0.0283 | 0.1817 |
| 26 | Analog Circ - Pair Gain | 457C | 0.0909 | 0.0626 | 0.0283 | 0.1817 |
| 27 | Analog Circ - Other | 57C | 0.0909 | 0.0626 | 0.0283 | 0.1817 |
| | | | | | | |
| 29 | Large PBX | 158C | 0.1733 | 0.0610 | 0.0276 | 0.2619 |
| 30 | Other Terminal Equip | 378C | 0.1617 | 0.0636 | 0.0287 | 0.2540 |
| 31 | | | | | | |
| 32 | Poles | 1C | 0.0400 | 0.0639 | 0.0288 | 0.1327 |
| 33 | Aerial Ca - Metal - Bldg Enter | 12C | 0.0575 | 0.0620 | 0.0280 | 0.1476 |
| 34 | Aerial Ca - Metal | 22C | 0.0575 | 0.0620 | 0.0280 | 0.1476 |
| 35 | Aerial Ca - Fiber - Bldg Enter | 812C | 0.0400 | 0.0667 | 0.0301 | 0.1368 |
| 36 | Aerial Ca - Fiber | 822C | 0.0400 | 0.0667 | 0.0301 | 0.1368 |
| 37 | Buried Ca - Metal | 45C | 0.0500 | 0.0658 | 0.0297 | 0.1456 |
| 38 | Buried Ca - Fiber | 845C | 0.0363 | 0.0697 | 0.0315 | 0.1375 |
| 39 | Underground Ca - Metal | 5C | 0.0432 | 0.0672 | 0.0304 | 0.1408 |
| 40 | Underground Ca - Fiber | 85C | 0.0400 | 0.0667 | 0.0301 | 0.1368 |
| 41 | Submarine Ca - Metal | 6C | 0.0404 | 0.0693 | 0.0313 | 0.1410 |
| 42 | Submarine Ca - Fiber | 86C | 0.0404 | 0.0693 | 0.0313 | 0.1410 |
| 43 | INTA Bldg Ntwk Ca - Metal | 52C | 0.0500 | 0.0648 | 0.0293 | 0.1441 |
| 44 | INTA Bldg Ntwk Ca - Fiber | 852C | 0.0500 | 0.0648 | 0.0293 | 0.1441 |
| 45 | | | | | | |
| 46 | Conduit Systems | 4C | 0.0162 | 0.0834 | 0.0377 | 0.1372 |
| 47 | | | | | | |
| 48 | Timestamp: 2/12/99 7:59:18 AM | Deflt | | | | |

Depreciation = Adjusted Investment / Life Years
ACFC COM = (Investment * A/P) - Depreceiation
ACFC Income Tax = ACFC COM * Phi
Capital Expense = Depreciation + ACFC COM + ACFC Income Tax

Calculations rounded to four (4) decimal places.

Source: BellSouth's Capital Cost Calculator

adval97.xls

BELLSOUTH TELECOMMUNICATIONS, INC.
RATIO OF AD VALOREM AND OTHER TAXES
TO TELEPHONE PLANT IN SERVICE IN 1997

| | (1) | (2) | (3) | (4) | (5) |
|---|---|---|---|---|---|
| STATE | PROPERTY (A/C 7240.1000) | OTHER (A/C 7240.3000, 7240.9100, .9200) | TOTAL | TEL. PLANT IN SERVICE (A/C 2001) | TAXES TO PLANT (3 / 4) |
| TENNESSEE | 48,612,964 | 6,073,200 | 54,686,164 | 4,696,901,283 | 1.1643% |

## GROSS RECEIPTS TAX CALCULATIONS

| AREA<br>a | GROSS RECEIPTS NET TAX<br>b | GROSS RECEIPTS REVENUES<br>c | GROSS RECEIPTS TAX RATE<br>d = b/c | GROSS RECEIPTS MARKUP FACTOR<br>e = 1/(1-d) -1 |
|---|---|---|---|---|
| TENNESSEE | 3,727,602 | 1,198,025,743 | 0.0031 | 0.0031 |

0001184

1999 FACTORS FOR DETERMINING DISCONNECT FACTOR 11 17 99

DISCOUNT RATE (Marketing Department) 7.00%

| YEAR | ANNUAL TELCO COE LABOR INFLATION RATE (Network-TPI Sep 98) | | |
|---|---|---|---|
| 2000 | 4.0% | 2006 | 4.4% |
| 2001 | 4.1% | 2007 | 4.4% |
| 2002 | 4.1% | 2008 | 4.4% |
| 2003 | 4.1% | 2009 | 4.4% |
| 2004 | 4.1% | 2010 | 4.4% |
| 2005 | 4.1% | 2011 | 4.4% |

| NO. | YEAR | MONTH | ANNUAL INFLATION RATE | MONTHLY INFLATION RATE | INFLATION | MONTHLY DISCOUNT | DISCOUNT | DISCONNECT FACTOR |
|---|---|---|---|---|---|---|---|---|
| 1 | 2000 | JAN | 4.01% | 1.003285 | 1.003285 | 0.994378 | 0.994378 | 0.997644 |
| 2 | 2000 | FEB | 4.01% | 1.003285 | 1.006581 | 0.994378 | 0.988787 | 0.995294 |
| 3 | 2000 | MAR | 4.01% | 1.003285 | 1.009887 | 0.994378 | 0.983228 | 0.992949 |
| 4 | 2000 | APR | 4.01% | 1.003285 | 1.013205 | 0.994378 | 0.977700 | 0.990610 |
| 5 | 2000 | MAY | 4.01% | 1.003285 | 1.016533 | 0.994378 | 0.972203 | 0.988276 |
| 6 | 2000 | JUN | 4.01% | 1.003285 | 1.019872 | 0.994378 | 0.966736 | 0.985948 |
| 7 | 2000 | JUL | 4.01% | 1.003285 | 1.023222 | 0.994378 | 0.961301 | 0.983625 |
| 8 | 2000 | AUG | 4.01% | 1.003285 | 1.026583 | 0.994378 | 0.955896 | 0.981307 |
| 9 | 2000 | SEP | 4.01% | 1.003285 | 1.029956 | 0.994378 | 0.950522 | 0.978996 |
| 10 | 2000 | OCT | 4.01% | 1.003285 | 1.033339 | 0.994378 | 0.945178 | 0.976689 |
| 11 | 2000 | NOV | 4.01% | 1.003285 | 1.036733 | 0.994378 | 0.939864 | 0.974388 |
| 12 | 2000 | DEC | 4.01% | 1.003285 | 1.040139 | 0.994378 | 0.934579 | 0.972093 |
| 13 | 2001 | JAN | 4.14% | 1.003384 | 1.043658 | 0.994378 | 0.929325 | 0.969898 |
| 14 | 2001 | FEB | 4.14% | 1.003384 | 1.047190 | 0.994378 | 0.924100 | 0.967708 |
| 15 | 2001 | MAR | 4.14% | 1.003384 | 1.050733 | 0.994378 | 0.918904 | 0.965523 |
| 16 | 2001 | APR | 4.14% | 1.003384 | 1.054288 | 0.994378 | 0.913738 | 0.963343 |
| 17 | 2001 | MAY | 4.14% | 1.003384 | 1.057855 | 0.994378 | 0.908601 | 0.961168 |
| 18 | 2001 | JUN | 4.14% | 1.003384 | 1.061434 | 0.994378 | 0.903492 | 0.958998 |
| 19 | 2001 | JUL | 4.14% | 1.003384 | 1.065026 | 0.994378 | 0.898412 | 0.956832 |
| 20 | 2001 | AUG | 4.14% | 1.003384 | 1.068629 | 0.994378 | 0.893361 | 0.954672 |
| 21 | 2001 | SEP | 4.14% | 1.003384 | 1.072245 | 0.994378 | 0.888338 | 0.952516 |
| 22 | 2001 | OCT | 4.14% | 1.003384 | 1.075873 | 0.994378 | 0.883344 | 0.950366 |
| 23 | 2001 | NOV | 4.14% | 1.003384 | 1.079513 | 0.994378 | 0.878377 | 0.948220 |
| 24 | 2001 | DEC | 4.14% | 1.003384 | 1.083166 | 0.994378 | 0.873439 | 0.946079 |
| 25 | 2002 | JAN | 4.14% | 1.003384 | 1.086831 | 0.994378 | 0.868528 | 0.943943 |
| 26 | 2002 | FEB | 4.14% | 1.003384 | 1.090508 | 0.994378 | 0.863645 | 0.941812 |
| 27 | 2002 | MAR | 4.14% | 1.003384 | 1.094198 | 0.994378 | 0.858789 | 0.939685 |
| 28 | 2002 | APR | 4.14% | 1.003384 | 1.097900 | 0.994378 | 0.853961 | 0.937563 |
| 29 | 2002 | MAY | 4.14% | 1.003384 | 1.101615 | 0.994378 | 0.849159 | 0.935447 |
| 30 | 2002 | JUN | 4.14% | 1.003384 | 1.105342 | 0.994378 | 0.844385 | 0.933334 |
| 31 | 2002 | JUL | 4.14% | 1.003384 | 1.109082 | 0.994378 | 0.839638 | 0.931227 |
| 32 | 2002 | AUG | 4.14% | 1.003384 | 1.112835 | 0.994378 | 0.834917 | 0.929124 |
| 33 | 2002 | SEP | 4.14% | 1.003384 | 1.116600 | 0.994378 | 0.830223 | 0.927027 |
| 34 | 2002 | OCT | 4.14% | 1.003384 | 1.120378 | 0.994378 | 0.825555 | 0.924934 |
| 35 | 2002 | NOV | 4.14% | 1.003384 | 1.124169 | 0.994378 | 0.820913 | 0.922845 |
| 36 | 2002 | DEC | 4.14% | 1.003384 | 1.127972 | 0.994378 | 0.816298 | 0.920762 |
| 37 | 2003 | JAN | 4.14% | 1.003384 | 1.131789 | 0.994378 | 0.811708 | 0.918683 |
| 38 | 2003 | FEB | 4.14% | 1.003384 | 1.135618 | 0.994378 | 0.807145 | 0.916608 |
| 39 | 2003 | MAR | 4.14% | 1.003384 | 1.139461 | 0.994378 | 0.802607 | 0.914539 |
| 40 | 2003 | APR | 4.14% | 1.003384 | 1.143316 | 0.994378 | 0.798094 | 0.912474 |
| 41 | 2003 | MAY | 4.14% | 1.003384 | 1.147185 | 0.994378 | 0.793607 | 0.910414 |
| 42 | 2003 | JUN | 4.14% | 1.003384 | 1.151066 | 0.994378 | 0.789145 | 0.908358 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 43 | 2003 JUL | 4.14% | 1.003384 | 1.154961 | 0.994378 | 0.784708 | 0.906307 |
| 44 | 2003 AUG | 4.14% | 1.003384 | 1.158869 | 0.994378 | 0.780296 | 0.904261 |
| 45 | 2003 SEP | 4.14% | 1.003384 | 1.162790 | 0.994378 | 0.775909 | 0.902219 |
| 46 | 2003 OCT | 4.14% | 1.003384 | 1.166724 | 0.994378 | 0.771547 | 0.900182 |
| 47 | 2003 NOV | 4.14% | 1.003384 | 1.170672 | 0.994378 | 0.767209 | 0.898149 |
| 48 | 2003 DEC | 4.14% | 1.003384 | 1.174633 | 0.994378 | 0.762895 | 0.896122 |
| 49 | 2004 JAN | 4.14% | 1.003384 | 1.178607 | 0.994378 | 0.758606 | 0.894098 |
| 50 | 2004 FEB | 4.14% | 1.003384 | 1.182595 | 0.994378 | 0.754341 | 0.892079 |
| 51 | 2004 MAR | 4.14% | 1.003384 | 1.186596 | 0.994378 | 0.750100 | 0.890065 |
| 52 | 2004 APR | 4.14% | 1.003384 | 1.190611 | 0.994378 | 0.745882 | 0.888056 |
| 53 | 2004 MAY | 4.14% | 1.003384 | 1.194639 | 0.994378 | 0.741689 | 0.886051 |
| 54 | 2004 JUN | 4.14% | 1.003384 | 1.198681 | 0.994378 | 0.737519 | 0.884050 |
| 55 | 2004 JUL | 4.14% | 1.003384 | 1.202737 | 0.994378 | 0.733372 | 0.882054 |
| 56 | 2004 AUG | 4.14% | 1.003384 | 1.206807 | 0.994378 | 0.729249 | 0.880062 |
| 57 | 2004 SEP | 4.14% | 1.003384 | 1.210890 | 0.994378 | 0.725149 | 0.878075 |
| 58 | 2004 OCT | 4.14% | 1.003384 | 1.214987 | 0.994378 | 0.721072 | 0.876093 |
| 59 | 2004 NOV | 4.14% | 1.003384 | 1.219098 | 0.994378 | 0.717018 | 0.874115 |
| 60 | 2004 DEC | 4.14% | 1.003384 | 1.223223 | 0.994378 | 0.712986 | 0.872141 |
| 61 | 2005 JAN | 4.14% | 1.003384 | 1.227362 | 0.994378 | 0.708978 | 0.870172 |
| 62 | 2005 FEB | 4.14% | 1.003384 | 1.231514 | 0.994378 | 0.704991 | 0.868207 |
| 63 | 2005 MAR | 4.14% | 1.003384 | 1.235681 | 0.994378 | 0.701028 | 0.866247 |
| 64 | 2005 APR | 4.14% | 1.003384 | 1.239862 | 0.994378 | 0.697086 | 0.864291 |
| 65 | 2005 MAY | 4.14% | 1.003384 | 1.244057 | 0.994378 | 0.693167 | 0.862339 |
| 66 | 2005 JUN | 4.14% | 1.003384 | 1.248267 | 0.994378 | 0.689270 | 0.860392 |
| 67 | 2005 JUL | 4.14% | 1.003384 | 1.252490 | 0.994378 | 0.685394 | 0.858450 |
| 68 | 2005 AUG | 4.14% | 1.003384 | 1.256728 | 0.994378 | 0.681541 | 0.856511 |
| 69 | 2005 SEP | 4.14% | 1.003384 | 1.260980 | 0.994378 | 0.677709 | 0.854578 |
| 70 | 2005 OCT | 4.14% | 1.003384 | 1.265247 | 0.994378 | 0.673899 | 0.852648 |
| 71 | 2005 NOV | 4.14% | 1.003384 | 1.269528 | 0.994378 | 0.670110 | 0.850723 |
| 72 | 2005 DEC | 4.14% | 1.003384 | 1.273823 | 0.994378 | 0.666342 | 0.848802 |
| 73 | 2006 JAN | 4.38% | 1.003580 | 1.278384 | 0.994378 | 0.662596 | 0.847052 |
| 74 | 2006 FEB | 4.38% | 1.003580 | 1.282961 | 0.994378 | 0.658870 | 0.845305 |
| 75 | 2006 MAR | 4.38% | 1.003580 | 1.287554 | 0.994378 | 0.655166 | 0.843562 |
| 76 | 2006 APR | 4.38% | 1.003580 | 1.292164 | 0.994378 | 0.651482 | 0.841822 |
| 77 | 2006 MAY | 4.38% | 1.003580 | 1.296791 | 0.994378 | 0.647820 | 0.840087 |
| 78 | 2006 JUN | 4.38% | 1.003580 | 1.301434 | 0.994378 | 0.644177 | 0.838354 |
| 79 | 2006 JUL | 4.38% | 1.003580 | 1.306093 | 0.994378 | 0.640556 | 0.836625 |
| 80 | 2006 AUG | 4.38% | 1.003580 | 1.310770 | 0.994378 | 0.636954 | 0.834900 |
| 81 | 2006 SEP | 4.38% | 1.003580 | 1.315463 | 0.994378 | 0.633373 | 0.833179 |
| 82 | 2006 OCT | 4.38% | 1.003580 | 1.320173 | 0.994378 | 0.629812 | 0.831460 |
| 83 | 2006 NOV | 4.38% | 1.003580 | 1.324899 | 0.994378 | 0.626271 | 0.829746 |
| 84 | 2006 DEC | 4.38% | 1.003580 | 1.329643 | 0.994378 | 0.622750 | 0.828035 |
| 85 | 2007 JAN | 4.38% | 1.003580 | 1.334404 | 0.994378 | 0.619248 | 0.826327 |
| 86 | 2007 FEB | 4.38% | 1.003580 | 1.339181 | 0.994378 | 0.615767 | 0.824623 |
| 87 | 2007 MAR | 4.38% | 1.003580 | 1.343976 | 0.994378 | 0.612305 | 0.822923 |
| 88 | 2007 APR | 4.38% | 1.003580 | 1.348788 | 0.994378 | 0.608862 | 0.821226 |
| 89 | 2007 MAY | 4.38% | 1.003580 | 1.353617 | 0.994378 | 0.605439 | 0.819533 |
| 90 | 2007 JUN | 4.38% | 1.003580 | 1.358464 | 0.994378 | 0.602035 | 0.817843 |
| 91 | 2007 JUL | 4.38% | 1.003580 | 1.363328 | 0.994378 | 0.598650 | 0.816156 |
| 92 | 2007 AUG | 4.38% | 1.003580 | 1.368209 | 0.994378 | 0.595284 | 0.814473 |
| 93 | 2007 SEP | 4.38% | 1.003580 | 1.373108 | 0.994378 | 0.591937 | 0.812794 |
| 94 | 2007 OCT | 4.38% | 1.003580 | 1.378024 | 0.994378 | 0.588609 | 0.811118 |
| 95 | 2007 NOV | 4.38% | 1.003580 | 1.382958 | 0.994378 | 0.585300 | 0.809445 |
| 96 | 2007 DEC | 4.38% | 1.003580 | 1.387909 | 0.994378 | 0.582009 | 0.807776 |
| 97 | 2008 JAN | 4.38% | 1.003580 | 1.392878 | 0.994378 | 0.578737 | 0.806110 |
| 98 | 2008 FEB | 4.38% | 1.003580 | 1.397866 | 0.994378 | 0.575483 | 0.804448 |
| 99 | 2008 MAR | 4.38% | 1.003580 | 1.402870 | 0.994378 | 0.572247 | 0.802789 |
| 100 | 2008 APR | 4.38% | 1.003580 | 1.407893 | 0.994378 | 0.569030 | 0.801134 |
| 101 | 2008 MAY | 4.38% | 1.003580 | 1.412934 | 0.994378 | 0.565831 | 0.799482 |
| 102 | 2008 JUN | 4.38% | 1.003580 | 1.417993 | 0.994378 | 0.562649 | 0.797833 |
| 103 | 2008 JUL | 4.38% | 1.003580 | 1.423070 | 0.994378 | 0.559486 | 0.796188 |

| State | JFC/JG/WS | Description | Directly Assigned Labor Date | Directly Assigned Labor Rate | Telric Labor Rate | Telric Labor Date |
|---|---|---|---|---|---|---|
| RW | 4M1X | Address & Facility Inventory (AFIG) | 11-05-99 | $ 34.31 | $ 34.31 | 11-05-99 |
| RW | 4M2X | Address & Facility Inventory (AFIG) | 11-05-99 | $ 34.31 | $ 34.31 | 11-05-99 |
| RW | 410X | Install & Mtce - Pots | 11-05-99 | $ 40.26 | $ 40.26 | 11-05-99 |
| RW | 411X | Install & Mtce - Spec Svcs (SSIM) | 11-05-99 | $ 45.41 | $ 45.41 | 11-05-99 |
| RW | 420X | Outside Plant Constr (OSPC) | 11-05-99 | $ 42.55 | $ 42.55 | 11-05-99 |
| RW | 421X | Outside Plant Constr (OSPC) | 11-05-99 | $ 42.55 | $ 42.55 | 11-05-99 |
| RW | 424X | Outside Plant Admin Cntr (OPAC) | 11-05-99 | $ 38.02 | $ 38.02 | 11-05-99 |
| RW | 425X | Cable Repair Technician (CRT) | 11-05-99 | $ 44.06 | $ 44.06 | 11-05-99 |
| RW | 426X | Cable Repair Technician (CRT) | 11-05-99 | $ 44.06 | $ 44.06 | 11-05-99 |
| RW | 430X | CO Install & Mtce Field - Switch Eq | 11-05-99 | $ 44.49 | $ 44.49 | 11-05-99 |
| RW | 431X | CO Install & Mtce Field - Ckt & Fac | 11-05-99 | $ 42.04 | $ 42.04 | 11-05-99 |
| RW | 431XB | CO I&M Field, Basic Time - Ckt & Fac | 11-05-99 | $ 40.32 | $ 40.32 | 11-05-99 |
| RW | 431XO | CO I&M Field, OT - Ckt & Fac | 11-05-99 | $ 52.09 | $ 52.09 | 11-05-99 |
| RW | 431XP | CO I&M Field, Prem Time - Ckt & Fac | 11-05-99 | $ 63.85 | $ 63.85 | 11-05-99 |
| RW | 4N1X | Recent Chng Line Trans (RCMAG) | 11-05-99 | $ 36.85 | $ 36.85 | 11-05-99 |
| RW | 4N2X | Switch & Trunk Based Translations | 11-05-99 | $ 43.27 | $ 43.27 | 11-05-99 |
| RW | 432X | CO Install, Mtce & Admin - Software | 11-05-99 | $ 48.51 | $ 48.51 | 11-05-99 |
| RW | 4N5X | Trunk & Carrier Group (TCG) | 11-05-99 | $ 43.20 | $ 43.20 | 11-05-99 |
| RW | 4LXX | Network Reliability Center (NRC) | 11-05-99 | $ 43.74 | $ 43.74 | 11-05-99 |
| RW | 4PXX | Proactive Analysis/Repair Ctr (PAR) | 11-05-99 | $ 43.63 | $ 43.63 | 11-05-99 |
| RW | 4N4X | Circuit Provisioning Group (CPG) | 11-05-99 | $ 33.64 | $ 33.64 | 11-05-99 |
| RW | 4AXX | Acc Cust Advocate Cntr (ACAC) | 11-05-99 | $ 38.31 | $ 38.31 | 11-05-99 |
| RW | 4AXXB | Acc Cust Adv Cntr, Bas Time (ACAC) | 11-05-99 | $ 35.83 | $ 35.83 | 11-05-99 |
| RW | 4AXXO | Acc Cust Adv Cntr, OT (ACAC) | 11-05-99 | $ 47.29 | $ 47.29 | 11-05-99 |
| RW | 4AXXP | Acc Cust Adv Cntr, Prem Time (ACAC) | 11-05-99 | $ 58.76 | $ 58.76 | 11-05-99 |
| RW | 4N3X | Equip Bill Accuracy Cont (EBAC) | 11-05-99 | $ 35.36 | $ 35.36 | 11-05-99 |
| RW | 4BXX | Business Repair Center (BRC) | 11-05-99 | $ 36.63 | $ 36.63 | 11-05-99 |
| RW | 4RXX | Residence Repair Center (RRC) | 11-05-99 | $ 30.61 | $ 30.61 | 11-05-99 |
| RW | 4WXX | Work Management Center (WMC) | 11-05-99 | $ 32.76 | $ 32.76 | 11-05-99 |
| RW | 490X | Network Buried Facility (NBF) | 11-05-99 | $ 25.53 | $ 25.53 | 11-05-99 |
| RW | 4DXX | Regional Network Operations Cntr (RNOC) | 11-05-99 | $ 39.16 | $ 39.16 | 11-05-99 |
| RW | 4EXX | Company Initiated Activities Center(CIA) | 11-05-99 | $ 39.76 | $ 39.76 | 11-05-99 |
| RW | 4FXX | Service Advocacy Center (SAC) | 11-05-99 | $ 32.62 | $ 32.62 | 11-05-99 |
| RW | 30XX | Land And Buildings (FG10) | 11-05-99 | $ 83.04 | $ 83.04 | 11-05-99 |
| RW | 34XX | Ntwk & Eng Planning (FG20) | 11-05-99 | $ 50.98 | $ 50.98 | 11-05-99 |
| RW | 3AXX | Ntwk & Eng Planning (FG20) | 11-05-99 | $ 50.98 | $ 50.98 | 11-05-99 |
| RW | 3A2X | Ntwk Plug-In Admin (PICS) | 11-05-99 | $ 37.04 | $ 37.04 | 11-05-99 |
| RW | 32XX | Outside Plant Eng (FG30) | 11-05-99 | $ 43.66 | $ 43.66 | 11-05-99 |
| RW | 230X | Customer Point Of Contact - ICSC/LCSC | 11-05-99 | $ 31.17 | $ 31.17 | 11-05-99 |
| RW | 230XB | Cust Pnt Of Cont, Basic Time - ICSC/LCSC | 11-05-99 | $ 29.26 | $ 29.26 | 11-05-99 |
| RW | 230XO | Cust Pnt Of Cont, OT - ICSC/LCSC | 11-05-99 | $ 38.79 | $ 38.79 | 11-05-99 |
| RW | 230XP | Cust Pnt Of Cont, Prem Time - ICSC/LCSC | 11-05-99 | $ 48.31 | $ 48.31 | 11-05-99 |
| RW | 212XA | Call Completion Attendants | 11-05-99 | $ 14.41 | $ 14.41 | 11-05-99 |
| RW | 212XO | Toll & Assist Operators | 11-05-99 | $ 29.35 | $ 29.35 | 11-05-99 |
| RW | 294XA | Directory Assistance Attendants | 11-05-99 | $ 13.80 | $ 13.80 | 11-05-99 |
| RW | 294XO | Directory Assistance Operators | 11-05-99 | $ 27.30 | $ 27.30 | 11-05-99 |
| RW | 260X | Customer Billing | 11-05-99 | $ 29.50 | $ 29.50 | 11-05-99 |
| RW | 2E4X | Collections Representative | 11-05-99 | $ 30.09 | $ 30.09 | 11-05-99 |
| RW | 2E5X | Customer Service | 11-05-99 | $ 30.65 | $ 30.65 | 11-05-99 |
| RW | 287X | Sales - Customer Service Related | 11-05-99 | $ 30.75 | $ 30.75 | 11-05-99 |
| RW | 124X | Comptrollers Clerical | 11-05-99 | $ 27.54 | $ 27.54 | 11-05-99 |
| RW | 125X | Comptrollers Clerical | 11-05-99 | $ 27.54 | $ 27.54 | 11-05-99 |
| RW | 126X | Comptrollers Clerical | 11-05-99 | $ 27.54 | $ 27.54 | 11-05-99 |
| RW | 127X | Comptrollers Clerical | 11-05-99 | $ 27.54 | $ 27.54 | 11-05-99 |
| RW | 2700 | Network Services Clerical | 11-05-99 | $ 29.10 | $ 29.10 | 11-05-99 |
| RW | 2701 | Network Services Clerical | 11-05-99 | $ 29.10 | $ 29.10 | 11-05-99 |
| RW | 2730 | Network Services Clerical | 11-05-99 | $ 29.10 | $ 29.10 | 11-05-99 |
| RW | 2751 | Network Services Clerical | 11-05-99 | $ 29.10 | $ 29.10 | 11-05-99 |
| RW | 221X | Complex Resale Support Group (CRSG) | 11-05-99 | $ 31.17 | $ 31.17 | 11-05-99 |
| RW | AEWC | Acct Executive w/Sales Comp | 11-05-99 | $ 50.61 | $ 50.61 | 11-05-99 |
| RW | AEWOC | Acct Executive wo/Sales Comp | 11-05-99 | $ 38.07 | $ 38.07 | 11-05-99 |

SUMMARY

| State | JFC/JG/WS | Description | Directly Assigned Labor Date | Directly Assigned Labor Rate | Telric Labor Rate | Telric Labor Date |
|---|---|---|---|---|---|---|
| RW | SDWC | Systems Designer w/Sales Com | 11-05-99 | $ 51.17 | $ 51.17 | 11-05-99 |
| RW | SDWOC | Systems Designer wo/Sales Com | 11-05-99 | $ 46.88 | $ 46.88 | 11-05-99 |
| RW | SVCC | Service Consultant | 11-05-99 | $ 33.96 | $ 33.96 | 11-05-99 |
| RW | JG54 | Job Grade 54 | 11-05-99 | $ 28.29 | $ 28.29 | 11-05-99 |
| RW | JG55 | Job Grade 55 | 11-05-99 | $ 31.15 | $ 31.15 | 11-05-99 |
| RW | JG56 | Job Grade 56 | 11-05-99 | $ 36.16 | $ 36.16 | 11-05-99 |
| RW | JG57 | Job Grade 57 | 11-05-99 | $ 40.54 | $ 40.54 | 11-05-99 |
| RW | JG58 | Job Grade 58 | 11-05-99 | $ 47.07 | $ 47.07 | 11-05-99 |
| RW | JG59 | Job Grade 59 | 11-05-99 | $ 54.58 | $ 54.58 | 11-05-99 |
| RW | JG60 | Job Grade 60 | 11-05-99 | $ 62.43 | $ 62.43 | 11-05-99 |
| RW | JG61 | Job Grade 61 | 11-05-99 | $ 71.24 | $ 71.24 | 11-05-99 |
| RW | WS10 | Wage Scale 10 | 11-05-99 | $ 24.14 | $ 24.14 | 11-05-99 |
| RW | WS14 | Wage Scale 14 | 11-05-99 | $ 25.17 | $ 25.17 | 11-05-99 |
| RW | WS16 | Wage Scale 16 | 11-05-99 | $ 25.85 | $ 25.85 | 11-05-99 |
| RW | WS18 | Wage Scale 18 | 11-05-99 | $ 26.37 | $ 26.37 | 11-05-99 |
| RW | WS23 | Wage Scale 23 | 11-05-99 | $ 27.72 | $ 27.72 | 11-05-99 |
| RW | WS32 | Wage Scale 32 | 11-05-99 | $ 33.28 | $ 33.28 | 11-05-99 |

**2000 - 2002 INFLATION RATE**
**1998 Labor Input Data**

**PLANT AND COST GROUPS**

| | | |
|---|---|---|
| 1999 - 3.2% | 1.032000 | |
| 2000 - 3.4% | 1.067088 (1.032000*1.034) | |
| 2001 - 3.5% | 1.104436 (1.067088*1.035) | |
| 2002 - 3.5% | 1.143091 (1.104436*1.035) | |
| SUM OF 2000 - 2002 FACTOR | 3.314615 /3 = | **1.104872** |

**ENGINEERING COST GROUPS (same as above)** **1.104872**

AS OF 10-98
SOURCE: BELLSOUTH REGION TELEPHONE PLANT INDEXES

Attachment C

## BELLSOUTH TELECOMMUNICATIONS TPIs
## OCTOBER 1998 FORECAST ASSUMPTIONS

| | PRICE INDEX NONRESIDENTIAL STRUCTURES | CHAIN PRICE INDEX GDP | GDP 1992$ | CAPITAL EQUIPMENT PPI | UNION WAGES | COPPER CATHODE PPI | PVC PPI | SEMICOND. PPI |
|---|---|---|---|---|---|---|---|---|
| 1995 | 4.2 | 2.5 | 2.0 | 2.0 | 2.6 | 27.9 | 10.5 | -7.0 |
| 1996 | 2.3 | 2.3 | 2.8 | 1.2 | 2.7 | -21.5 | -14.5 | -8.1 |
| 1997 | 3.3 | 2.0 | 3.8 | 0.0 | 2.6 | -2.9 | 4.7 | -10.9 |
| 1998 | 2.5 | 1.2 | 3.3 | -0.7 | 2.9 | -26.3 | -17.0 | -9.5 |
| 1999 | 2.0 | 1.9 | 1.9 | -0.2 | 3.2 | -5.0 | -1.5 | -9.0 |
| 2000 | 1.9 | 2.3 | 2.6 | 1.2 | 3.4 | 3.5 | 1.0 | -8.0 |
| 2001 | 2.1 | 2.3 | 2.3 | 1.4 | 3.5 | 8.0 | 6.0 | -8.0 |
| 2002 | 1.9 | 2.3 | 2.3 | 1.3 | 3.5 | 5.0 | 4.0 | -7.0 |
| 2003 | 2.0 | 2.3 | 2.4 | 1.5 | 3.5 | 2.5 | 3.0 | -7.0 |
| 2004 | 2.0 | 2.3 | 2.5 | 1.6 | 3.5 | 2.5 | 2.5 | -7.0 |
| 2005 | 2.2 | 2.3 | 2.5 | 1.6 | 3.5 | 3.0 | 2.6 | -7.0 |
| 2006 | 2.2 | 2.3 | 2.5 | 1.5 | 3.7 | 3.5 | 2.6 | -7.0 |
| 2007 | 2.2 | 2.3 | 2.4 | 1.5 | 3.7 | 3.5 | 2.6 | -7.0 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| **2000 - 2002 DIRECTLY ASSIGNED LABOR RATES** | | | | | |
| **PLANT WORK CENTERS** | **JFC** | **DIRECTLY ASSIGNED** | **COLUMN C REFERENCE** | **2000 - 2002 INFLATION FACTOR*** | **2000 - 2002 DIRECTLY ASSIGNED LABOR RATE (C*E)** |
| ADDRESS & FACILITY INVENTORY (AFIG) | 4M1X 4M2X | $ 31.06 | AFIG C30 | 1.104872 | $ 34.31 |
| INSTALL & MTCE - POTS | 410X | $ 36.43 | I&M POTS C30 | 1.104872 | $ 40.26 |
| INSTALL & MTCE - SPEC SVCS (SSIM) | 411X | $ 41.10 | SSIM C30 | 1.104872 | $ 45.41 |
| OUTSIDE PLANT CONSTRUCTION (OSPC) | 420X 421X | $ 38.51 | OSPC C30 | 1.104872 | $ 42.55 |
| OUTSIDE PLANT ADMIN CENTER (OPAC) | 424X | $ 34.41 | OPAC C30 | 1.104872 | $ 38.02 |
| CABLE REPAIR TECHNICIAN (CRT) | 425X 426X | $ 39.88 | CRT C30 | 1.104872 | $ 44.06 |
| CO INSTALL & MTCE FIELD - SWITCH EQUIP | 430X | $ 40.27 | COIM-SW EQ C30 | 1.104872 | $ 44.49 |
| CO INSTALL & MTCE FIELD - CIRCUIT & FAC | 431X | $ 38.05 | COIM-CIR&FAC C30 | 1.104872 | $ 42.04 |
| RECENT CHANGE LINE TRANSLATIONS (RCMAG) | 4N1X | $ 33.35 | RCMAG C30 | 1.104872 | $ 36.85 |
| SWITCH & TRUNK BASED TRANSLATIONS | 4N2X | $ 39.16 | TRANSLATIONS C30 | 1.104872 | $ 43.27 |
| CO INSTALL, MTCE & ADMIN - SOFTWARE | 432X | $ 43.91 | SOFTWARE C30 | 1.104872 | $ 48.51 |
| TRUNK & CARRIER GROUP (TCG) | 4N5X | $ 39.10 | TCG C30 | 1.104872 | $ 43.20 |
| NETWORK RELIABILITY CENTER (NRC) | 4LXX | $ 39.59 | NRC C30 | 1.104872 | $ 43.74 |
| PROACTIVE ANALYSIS & REPAIR CTR (PAR) | 4PXX | $ 39.49 | PAR C30 | 1.104872 | $ 43.63 |
| CIRCUIT PROVISIONING GROUP (CPG) | 4N4X | $ 30.45 | CPG C30 | 1.104872 | $ 33.64 |
| ACCESS CUSTOMER ADVOCATE CENTER (ACAC) | 4AXX | $ 34.68 | ACAC C30 | 1.104872 | $ 38.31 |
| EQUIPMENT BILLING ACCURACY CONT (EBAC) | 4N3X | $ 32.00 | EBAC C30 | 1.104872 | $ 35.36 |
| BUSINESS REPAIR CENTER (BRC) | 4BXX | $ 33.16 | BRC C30 | 1.104872 | $ 36.63 |
| RESIDENCE REPAIR CENTER (RRC) | 4RXX | $ 27.71 | RRC C30 | 1.104872 | $ 30.61 |
| WORK MANAGEMENT CENTER (WMC) | 4WXX | $ 29.65 | WMC C30 | 1.104872 | $ 32.76 |
| NETWORK BURIED FACILITY (NBF) | 490X | $ 23.10 | NBF C30 | 1.104872 | $ 25.53 |
| REGIONAL NETWORK OPERATIONS CTR (RNOC) | 4DXX | $ 35.44 | RNOC C30 | 1.104872 | $ 39.16 |
| COMPANY INITIATED ACTIVITIES CENTER (CIA) | 4EXX | $ 35.98 | CIA C30 | 1.104872 | $ 39.76 |
| SERVICE ADVOCACY CENTER (SAC) | 4FXX | $ 29.52 | SAC C30 | 1.104872 | $ 32.62 |
| * INFL FACTOR E18 | | | | | |

DIR ASSG SUMMARY

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| **ENGINEERING FORCE GROUPS** | **JFC** | **DIRECTLY ASSIGNED** | **COLUMN C REFERENCE** | **2000 - 2002 INFLATION FACTOR*** | **2000 - 2002 DIRECTLY ASSIGNED LABOR RATE (C*E)** |
| LAND AND BUILDINGS (FG10) | 30XX | $ 75.16 | FG10 C21 | 1.104872 | $ 83.04 |
| NETWORK & ENGINEERING PLANNING (FG20) | 34XX 3AXX | $ 46.14 | FG20 C21 | 1.104872 | $ 50.98 |
| NETWORK PLUG-IN ADMINISTRATION (PICS) | 3A2X | $ 33.52 | PICS C21 | 1.104872 | $ 37.04 |
| OUTSIDE PLANT ENGINEERING (FG30) | 32XX | $ 39.52 | FG30 C21 | 1.104872 | $ 43.66 |
| * INFL FACTOR E21 | | | | | |
| **COST GROUPS** | **JFC** | **DIRECTLY ASSIGNED** | **COLUMN C REFERENCE** | **2000 - 2002 INFLATION FACTOR*** | **2000 - 2002 DIRECTLY ASSIGNED LABOR RATE (C*E)** |
| CUSTOMER POINT OF CONTACT - ICSC/LCSC | 230X | $ 28.21 | ICSC LCSC C20 | 1.104872 | $ 31.17 |
| CALL COMPLETION ATTENDANTS | 212XA | $ 13.04 | CALL COMP ATTEND C20 | 1.104872 | $ 14.41 |
| TOLL & ASSIST OPERATORS | 212XO | $ 26.56 | TOLL & ASSIST OPER C20 | 1.104872 | $ 29.35 |
| DIRECTORY ASSISTANCE ATTENDANTS | 294XA | $ 12.49 | DIR ASSIST ATTEND C20 | 1.104872 | $ 13.80 |
| DIRECTORY ASSISTANCE OPERATORS | 294XO | $ 24.71 | DIR ASSIST OPER C20 | 1.104872 | $ 27.30 |
| CUSTOMER BILLING | 260X | $ 26.70 | COIN COLL C20 | 1.104872 | $ 29.50 |
| COLLECTIONS REPRESENTATIVE | 2E4X | $ 27.23 | COLL REPC20 | 1.104872 | $ 30.09 |
| CUSTOMER SERVICE | 2E5X | $ 27.75 | SVC REP-RES C20 | 1.104872 | $ 30.65 |
| SALES - CUSTOMER SERVICE RELATED | 287X | $ 27.83 | SVC REP-BUS C20 | 1.104872 | $ 30.75 |
| COMPTROLLERS CLERICAL | 124X 125X 126X 127X | $ 24.92 | COMP CLER C20 | 1.104872 | $ 27.54 |
| NETWORK SERVICES CLERICAL | 2700 2701 2730 2751 | $ 26.34 | NTWK SVC CLER C20 | 1.104872 | $ 29.10 |
| COMPLEX RESALE SUPPORT GROUP (CRSG) | 221X | $ 28.21 | CRSG C20 | 1.104872 | $ 31.17 |
| ACCOUNT EXECUTIVE | NOT APPLICABLE | | | | |
| WITH SALES COMPENSATION | | $ 45.81 | AE SD SC B12 | 1.104872 | $ 50.61 |
| WITHOUT SALES COMPENSATION | | $ 34.46 | AE SD SC B16 | 1.104872 | $ 38.07 |
| SYSTEMS DESIGNER | NOT APPLICABLE | | | | |
| WITH SALES COMPENSATION | | $ 46.31 | AE SD SC B22 | 1.104872 | $ 51.17 |
| WITHOUT SALES COMPENSATION | | $ 42.43 | AE SD SC B26 | 1.104872 | $ 46.88 |
| SERVICE CONSULTANT | NOT APPLICABLE | $ 30.74 | AE SD SC B32 | 1.104872 | $ 33.96 |
| * INFL FACTOR E18 | | | | | |

| A | B | | C |
|---|---|---|---|
| | SECURITY ESCORT | | 05-Nov-99 |
| | 2000 - 2002 DIRECTLY ASSIGNED - BASIC, OVERTIME, PREMIUM | | |
| **COIM - CIR&FAC** | **HOURLY RATE** | | **REFERENCE** |
| **BASIC** | | | |
| **DIRECTLY ASSIGNED** | $ | 38.05 | COIM-CIR&FAC C30 |
| **LESS PREMIUM** | $ | 1.56 | COIM-CIR&FAC C15 |
| **DA LESS PREM** | $ | 36.50 | |
| **TOTAL 2000 - 2002 DA** | **$** | **40.32** | B11*INFL FACTOR E18 |
| **OVERTIME (1 1/2)** | | | |
| **DIRECTLY ASSIGNED** | $ | 38.05 | COIM-CIR&FAC C30 |
| **LESS PREMIUM** | $ | 1.56 | COIM-CIR&FAC C15 |
| **DA LESS PREM** | $ | 36.50 | |
| **1/2 PROD LABOR** | $ | 10.65 | COIM-CIR&FAC C14/2 |
| **DA LESS PREM +1/2 PROD** | $ | 47.14 | |
| **TOTAL 2000 - 2002 DA** | **$** | **52.09** | B20*INFL FACTOR E18 |
| **PREMIUM (2X)** | | | |
| **DIRECTLY ASSIGNED** | $ | 38.05 | COIM-CIR&FAC C30 |
| **LESS PREMIUM** | $ | 1.56 | COIM-CIR&FAC C15 |
| **DA LESS PREM** | $ | 36.50 | |
| **1X PROD LABOR** | $ | 21.29 | COIM-CIR&FAC C14 |
| **DA LESS PREM + 1X PROD** | $ | 57.79 | |
| **TOTAL 2000 - 2002 DA** | **$** | **63.85** | B29*INFL FACTOR E18 |

| A | B | | C |
|---|---|---|---|
| SECURITY ESCORT | | | 05-Nov-99 |
| 2000 - 2002 DIRECTLY ASSIGNED - BASIC, OVERTIME, PREMIUM | | | |
| **ACAC** | **HOURLY RATE** | | **REFERENCE** |
| **BASIC** | | | |
| DIRECTLY ASSIGNED | $ | 34.68 | ACAC C30 |
| LESS PREMIUM | $ | 2.25 | ACAC C15 |
| DA LESS PREM | $ | 32.43 | |
| TOTAL 2000 - 2002 DA | **$** | **35.83** | B11*INFL FACTOR E18 |
| **OVERTIME (1 1/2)** | | | |
| DIRECTLY ASSIGNED | $ | 34.68 | ACAC C30 |
| LESS PREMIUM | $ | 2.25 | ACAC C15 |
| DA LESS PREM | $ | 32.43 | |
| 1/2 PROD LABOR | $ | 10.38 | ACAC C14/2 |
| DA LESS PREM +1/2 PROD | $ | 42.80 | |
| TOTAL 2000 - 2002 DA | **$** | **47.29** | B20*INFL FACTOR E18 |
| **PREMIUM (2X)** | | | |
| DIRECTLY ASSIGNED | $ | 34.68 | ACAC C30 |
| LESS PREMIUM | $ | 2.25 | ACAC C15 |
| DA LESS PREM | $ | 32.43 | |
| 1X PROD LABOR | $ | 20.76 | ACAC C14 |
| DA LESS PREM + 1X PROD | $ | 53.18 | |
| TOTAL 2000 - 2002 DA | **$** | **58.76** | B29*INFL FACTOR E18 |

| A | B | | C |
|---|---|---|---|
| | SECURITY ESCORT | | 05-Nov-99 |
| | 2000 - 2002 DIRECTLY ASSIGNED - BASIC, OVERTIME, PREMIUM | | |
| ICSC/LCSC | HOURLY RATE | | REFERENCE |
| BASIC | | | |
| DIRECTLY ASSIGNED | $ | 28.21 | ICSC LCSC C22 |
| LESS PREMIUM | $ | 1.73 | ICSC LCSC C15 |
| DA LESS PREM | $ | 26.48 | |
| TOTAL 2000 - 2002 DA | $ | 29.26 | B11*INFL FACTOR E18 |
| OVERTIME (1 1/2) | | | |
| DIRECTLY ASSIGNED | $ | 28.21 | ICSC LCSC C22 |
| LESS PREMIUM | $ | 1.73 | ICSC LCSC C15 |
| DA LESS PREM | $ | 26.48 | |
| 1/2 PROD LABOR | $ | 8.62 | ICSC LCSC C12/2 |
| DA LESS PREM +1/2 PROD | $ | 35.10 | |
| TOTAL 2000 - 2002 DA | $ | 38.79 | B20*INFL FACTOR E18 |
| PREMIUM (2X) | | | |
| DIRECTLY ASSIGNED | $ | 28.21 | ICSC LCSC C22 |
| LESS PREMIUM | $ | 1.73 | ICSC LCSC C15 |
| DA LESS PREM | $ | 26.48 | |
| 1X PROD LABOR | $ | 17.25 | ICSC LCSC C12 |
| DA LESS PREM + 1X PROD | $ | 43.73 | |
| TOTAL 2000 - 2002 DA | $ | 48.31 | B29*INFL FACTOR E18 |

# JOB GRADE & WAGE SCALE SUMMARY

| A | B | C | D | E |
|---|---|---|---|---|
| | **2000 - 2002 DIRECTLY ASSIGNED LABOR RATES** | | | **05-Nov-99** |
| | **HOURLY RATE** | **COLUMN B REFERENCE** | **2000 - 2002 INFLATION FACTOR*** | **2000 - 2002 DIRECTLY ASSIGNED (B*D)** |
| JOB GRADE 54 | $ 25.61 | JOB GRADES & WAGE SCALES B15 | 1.104872 | $ 28.29 |
| JOB GRADE 55 | $ 28.19 | JOB GRADES & WAGE SCALES C15 | 1.104872 | $ 31.15 |
| JOB GRADE 56 | $ 32.73 | JOB GRADES & WAGE SCALES D15 | 1.104872 | $ 36.16 |
| JOB GRADE 57 | $ 36.69 | JOB GRADES & WAGE SCALES E15 | 1.104872 | $ 40.54 |
| JOB GRADE 58 | $ 42.60 | JOB GRADES & WAGE SCALES F15 | 1.104872 | $ 47.07 |
| JOB GRADE 59 | $ 49.40 | JOB GRADES & WAGE SCALES G15 | 1.104872 | $ 54.58 |
| JOB GRADE 60 | $ 56.51 | JOB GRADES & WAGE SCALES H15 | 1.104872 | $ 62.43 |
| JOB GRADE 61 | $ 64.47 | JOB GRADES & WAGE SCALES I15 | 1.104872 | $ 71.24 |
| WAGE SCALE 10 | $ 21.85 | JOB GRADES & WAGE SCALES B29 | 1.104872 | $ 24.14 |
| WAGE SCALE 14 | $ 22.78 | JOB GRADES & WAGE SCALES C29 | 1.104872 | $ 25.17 |
| WAGE SCALE 16 | $ 23.40 | JOB GRADES & WAGE SCALES D29 | 1.104872 | $ 25.85 |
| WAGE SCALE 18 | $ 23.87 | JOB GRADES & WAGE SCALES E29 | 1.104872 | $ 26.37 |
| WAGE SCALE 23 | $ 25.09 | JOB GRADES & WAGE SCALES F29 | 1.104872 | $ 27.72 |
| WAGE SCALE 32 | $ 30.12 | JOB GRADES & WAGE SCALES G29 | 1.104872 | $ 33.28 |
| *** INFL FACTOR E18** | | | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: ADDRESS AND FACILITY INVENTORY | | |
| WCT: AFIG | | |
| JFC: 4M1X OR 4M2X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 20,258,903.55 | $ 16.85 |
| DIRECT LABOR - PREMIUM | $ 1,069,407.92 | $ 0.89 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 427,153.31 | $ 0.36 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 3,426,120.51 | $ 2.85 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 3,527,632.76 | $ 2.93 |
| TOTAL DIRECT LABOR | $ 28,709,218.05 | $ 23.88 |
| DIRECT LABOR - OTHER COST | $ 62,299.99 | $ 0.05 |
| OTHER TOOLS - SALARIES | $ 8,092.18 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 1,445.77 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 46,605.87 | $ 0.04 |
| OTHER TOOLS - OTHER | $ 1,434,730.68 | $ 1.19 |
| MOTOR VEHICLES - SALARIES | $ 166,913.00 | $ 0.14 |
| MOTOR VEHICLES - BENEFITS | $ 34,850.74 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 976.79 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 1,516,768.86 | $ 1.26 |
| DIRECTLY ASSIGNED BENEFITS | $ 5,352,555.89 | $ 4.45 |
| TOTAL DIRECTLY ASSIGNED | $ 37,334,457.82 | $ 31.06 |
| TOTAL CLASSIFIED PROD HOURS | 1,202,121.25 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: INSTALLATION AND MTCE - POTS | | |
| WCT: I&M POTS | | |
| JFC: 410X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 323,632,309.48 | $ 19.78 |
| DIRECT LABOR - PREMIUM | $ 51,193,986.73 | $ 3.13 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 7,185,553.39 | $ 0.44 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 39,915,598.12 | $ 2.44 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 36,070,131.54 | $ 2.20 |
| TOTAL DIRECT LABOR | $ 457,997,579.26 | $ 27.99 |
| DIRECT LABOR - OTHER COST | $ 1,860,391.29 | $ 0.11 |
| OTHER TOOLS - SALARIES | $ 120,856.66 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 20,736.18 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 902,483.40 | $ 0.06 |
| OTHER TOOLS - OTHER | $ 22,240,105.66 | $ 1.36 |
| MOTOR VEHICLES - SALARIES | $ 2,556,121.77 | $ 0.16 |
| MOTOR VEHICLES - BENEFITS | $ 536,900.39 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 17,884.40 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 23,002,586.50 | $ 1.41 |
| DIRECTLY ASSIGNED BENEFITS | $ 87,002,300.41 | $ 5.32 |
| TOTAL DIRECTLY ASSIGNED | $ 596,257,945.92 | $ 36.43 |
| TOTAL CLASSIFIED PROD HOURS | 16,365,225.17 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: INSTALLATION & MTCE - SPECIAL SERVICES | | |
| WCT: SSIM | | |
| JFC: 411X | | |
| | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 63,038,168.43 | $ 23.25 |
| DIRECT LABOR - PREMIUM | $ 6,713,982.16 | $ 2.48 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 1,101,577.76 | $ 0.41 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 8,306,460.31 | $ 3.06 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 7,367,242.53 | $ 2.72 |
| TOTAL DIRECT LABOR | $ 86,527,431.19 | $ 31.92 |
| DIRECT LABOR - OTHER COST | $ 341,888.42 | $ 0.13 |
| OTHER TOOLS - SALARIES | $ 17,439.66 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 3,011.77 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 118,593.84 | $ 0.04 |
| OTHER TOOLS - OTHER | $ 3,612,702.29 | $ 1.33 |
| MOTOR VEHICLES - SALARIES | $ 421,599.34 | $ 0.16 |
| MOTOR VEHICLES - BENEFITS | $ 87,809.85 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 3,349.19 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 3,786,287.40 | $ 1.40 |
| DIRECTLY ASSIGNED BENEFITS | $ 16,487,758.50 | $ 6.08 |
| TOTAL DIRECTLY ASSIGNED | $ 111,407,871.45 | $ 41.10 |
| TOTAL CLASSIFIED PROD HOURS | 2,710,907.07 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: OUTSIDE PLANT CONSTRUCTION | | |
| WCT: OSPC | | |
| JFC: 420X OR 421X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 137,510,941.88 | $ 20.66 |
| DIRECT LABOR - PREMIUM | $ 10,436,182.27 | $ 1.57 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 2,914,030.04 | $ 0.44 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 21,424,786.38 | $ 3.22 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 24,343,558.08 | $ 3.66 |
| TOTAL DIRECT LABOR | $ 196,629,498.65 | $ 29.54 |
| DIRECT LABOR - OTHER COST | $ 2,515,990.78 | $ 0.38 |
| OTHER TOOLS - SALARIES | $ 49,844.33 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 8,972.54 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 309,536.58 | $ 0.05 |
| OTHER TOOLS - OTHER | $ 8,755,550.73 | $ 1.32 |
| MOTOR VEHICLES - SALARIES | $ 1,034,886.11 | $ 0.16 |
| MOTOR VEHICLES - BENEFITS | $ 215,143.55 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 5,359.68 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 9,443,446.08 | $ 1.42 |
| DIRECTLY ASSIGNED BENEFITS | $ 37,388,472.36 | $ 5.62 |
| TOTAL DIRECTLY ASSIGNED | $ 256,356,701.39 | $ 38.51 |
| TOTAL CLASSIFIED PROD HOURS | 6,656,374.79 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: OUTSIDE PLANT ADMINISTRATION CENTER | | | | |
| WCT: OPAC | | | | |
| JFC: 424X | | | | |
| | | | | 1998 CLASSIFIED |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ | 2,835,992.30 | $ | 15.65 |
| DIRECT LABOR - PREMIUM | $ | 31,173.86 | $ | 0.17 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 61,074.62 | $ | 0.34 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 517,852.41 | $ | 2.86 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 1,479,693.62 | $ | 8.17 |
| TOTAL DIRECT LABOR | $ | 4,925,786.81 | $ | 27.18 |
| DIRECT LABOR - OTHER COST | $ | 28,504.02 | $ | 0.16 |
| OTHER TOOLS - SALARIES | $ | 1,577.06 | $ | 0.01 |
| OTHER TOOLS - BENEFITS | $ | 277.50 | $ | 0.00 |
| OTHER TOOLS - RENTS | $ | 12,860.67 | $ | 0.07 |
| OTHER TOOLS - OTHER | $ | 238,010.48 | $ | 1.31 |
| MOTOR VEHICLES - SALARIES | $ | 27,587.11 | $ | 0.15 |
| MOTOR VEHICLES - BENEFITS | $ | 5,872.40 | $ | 0.03 |
| MOTOR VEHICLES - RENTS | $ | 178.55 | $ | 0.00 |
| MOTOR VEHICLES - OTHER | $ | 251,782.57 | $ | 1.39 |
| DIRECTLY ASSIGNED BENEFITS | $ | 742,747.51 | $ | 4.10 |
| TOTAL DIRECTLY ASSIGNED | $ | 6,235,184.68 | $ | 34.41 |
| TOTAL CLASSIFIED PROD HOURS | | 181,208.00 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: CABLE REPAIR TECHNICIAN | | |
| WCT: CRT | | |
| JFC: 425X OR 426X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 159,170,728.90 | $ 21.47 |
| DIRECT LABOR - PREMIUM | $ 25,893,406.38 | $ 3.49 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 2,759,493.71 | $ 0.37 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 20,743,274.31 | $ 2.80 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 19,784,563.00 | $ 2.67 |
| TOTAL DIRECT LABOR | $ 228,351,466.30 | $ 30.81 |
| DIRECT LABOR - OTHER COST | $ 796,163.94 | $ 0.11 |
| OTHER TOOLS - SALARIES | $ 65,725.70 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 12,076.27 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 357,101.15 | $ 0.05 |
| OTHER TOOLS - OTHER | $ 9,926,822.08 | $ 1.34 |
| MOTOR VEHICLES - SALARIES | $ 1,172,438.25 | $ 0.16 |
| MOTOR VEHICLES - BENEFITS | $ 248,188.24 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 11,313.02 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 10,669,092.59 | $ 1.44 |
| DIRECTLY ASSIGNED BENEFITS | $ 43,992,956.77 | $ 5.94 |
| TOTAL DIRECTLY ASSIGNED | $ 295,603,344.31 | $ 39.88 |
| TOTAL CLASSIFIED PROD HOURS | 7,412,024.54 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: CO INSTALLATION & MTCE - CIRCUIT & FACILITY | | |
| WCT: COIM-CIR & FAC | | |
| JFC: 431X | | |
| | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 39,810,550.26 | $ 21.29 |
| DIRECT LABOR - PREMIUM | $ 2,910,755.43 | $ 1.56 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 720,979.58 | $ 0.39 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 6,058,901.44 | $ 3.24 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 5,332,764.61 | $ 2.85 |
| TOTAL DIRECT LABOR | $ 54,833,951.32 | $ 29.33 |
| DIRECT LABOR - OTHER COST | $ 542,495.16 | $ 0.29 |
| OTHER TOOLS - SALARIES | $ 7,759.66 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 1,511.23 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 26,588.48 | $ 0.01 |
| OTHER TOOLS - OTHER | $ 2,495,880.04 | $ 1.33 |
| MOTOR VEHICLES - SALARIES | $ 286,243.83 | $ 0.15 |
| MOTOR VEHICLES - BENEFITS | $ 59,677.99 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 3,067.88 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 2,571,155.75 | $ 1.38 |
| DIRECTLY ASSIGNED BENEFITS | $ 10,313,697.60 | $ 5.52 |
| TOTAL DIRECTLY ASSIGNED | $ 71,142,028.94 | $ 38.05 |
| TOTAL CLASSIFIED PROD HOURS | 1,869,598.17 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: CO INSTALLATION AND MTCE FIELD - SWITCH EQUIP | | |
| WCT: COIM-SW EQ | | |
| JFC: 430X | | |
| | | 1998 |
| | | CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 79,587,837.65 | $ 22.63 |
| DIRECT LABOR - PREMIUM | $ 5,138,319.53 | $ 1.46 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 1,331,847.41 | $ 0.38 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 12,129,672.17 | $ 3.45 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 10,421,315.48 | $ 2.96 |
| TOTAL DIRECT LABOR | $ 108,608,992.24 | $ 30.88 |
| DIRECT LABOR - OTHER COST | $ 1,626,495.25 | $ 0.46 |
| OTHER TOOLS - SALARIES | $ 32,997.78 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 5,403.14 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 291,808.23 | $ 0.08 |
| OTHER TOOLS - OTHER | $ 4,705,221.23 | $ 1.34 |
| MOTOR VEHICLES - SALARIES | $ 564,251.96 | $ 0.16 |
| MOTOR VEHICLES - BENEFITS | $ 118,978.62 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 5,103.99 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 5,037,082.56 | $ 1.43 |
| DIRECTLY ASSIGNED BENEFITS | $ 20,638,020.93 | $ 5.87 |
| TOTAL DIRECTLY ASSIGNED | $ 141,634,355.93 | $ 40.27 |
| TOTAL CLASSIFIED PROD HOURS | 3,517,179.84 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: RECENT CHANGE MEMORY LINE TRANSLATION | | |
| WCT: RCMAG | | |
| JFC: 4N1X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 9,922,403.92 | $ 17.69 |
| DIRECT LABOR - PREMIUM | $ 551,471.81 | $ 0.98 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 192,788.23 | $ 0.34 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 1,590,823.05 | $ 2.84 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 2,171,525.88 | $ 3.87 |
| TOTAL DIRECT LABOR | $ 14,429,012.89 | $ 25.72 |
| DIRECT LABOR - OTHER COST | $ 18,687.18 | $ 0.03 |
| OTHER TOOLS - SALARIES | $ 3,312.83 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 542.41 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 26,729.53 | $ 0.05 |
| OTHER TOOLS - OTHER | $ 758,653.41 | $ 1.35 |
| MOTOR VEHICLES - SALARIES | $ 88,118.70 | $ 0.16 |
| MOTOR VEHICLES - BENEFITS | $ 18,471.03 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 607.66 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 779,431.88 | $ 1.39 |
| DIRECTLY ASSIGNED BENEFITS | $ 2,585,747.87 | $ 4.61 |
| TOTAL DIRECTLY ASSIGNED | $ 18,709,315.39 | $ 33.35 |
| TOTAL CLASSIFIED PROD HOURS | 560,962.68 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

# TRANSLATIONS

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: SWITCH AND TRUNK BASED TRANSLATIONS | | | | |
| WCT: TRANSLATIONS | | | | |
| JFC: 4N2X | | | | |
| | | | | 1998 CLASSIFIED |
| | | 1998 | | HOURLY COST |
| **COMPONENT** | | **DOLLARS**** | | **(B/B32)** |
| DIRECT LABOR - PRODUCTIVE | $ | 14,192,518.20 | $ | 21.44 |
| DIRECT LABOR - PREMIUM | $ | 825,996.60 | $ | 1.25 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 287,541.38 | $ | 0.43 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 2,219,350.70 | $ | 3.35 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 2,371,164.04 | $ | 3.58 |
| TOTAL DIRECT LABOR | $ | 19,896,570.92 | $ | 30.06 |
| DIRECT LABOR - OTHER COST | $ | 411,538.25 | $ | 0.62 |
| OTHER TOOLS - SALARIES | $ | 5,359.99 | $ | 0.01 |
| OTHER TOOLS - BENEFITS | $ | 937.27 | $ | 0.00 |
| OTHER TOOLS - RENTS | $ | 35,152.21 | $ | 0.05 |
| OTHER TOOLS - OTHER | $ | 888,045.35 | $ | 1.34 |
| MOTOR VEHICLES - SALARIES | $ | 105,372.54 | $ | 0.16 |
| MOTOR VEHICLES - BENEFITS | $ | 21,851.44 | $ | 0.03 |
| MOTOR VEHICLES - RENTS | $ | 1,025.40 | $ | 0.00 |
| MOTOR VEHICLES - OTHER | $ | 943,241.59 | $ | 1.43 |
| DIRECTLY ASSIGNED BENEFITS | $ | 3,609,407.50 | $ | 5.45 |
| TOTAL DIRECTLY ASSIGNED | $ | 25,918,502.46 | $ | 39.16 |
| TOTAL CLASSIFIED PROD HOURS | | 661,853.81 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: CO INSTALLATION, MAINTENANCE AND ADMINISTRATION-SOFTWARE | | | | |
| WCT: SOFTWARE | | | | |
| JFC: 432X | | | | |
| | | | | 1998 CLASSIFIED |
| COMPONENT | | 1998 DOLLARS** | | HOURLY COST (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ | 5,522,178.80 | $ | 26.22 |
| DIRECT LABOR - PREMIUM | $ | 463,285.11 | $ | 2.20 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 93,643.52 | $ | 0.44 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 846,714.02 | $ | 4.02 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 171,743.09 | $ | 0.82 |
| TOTAL DIRECT LABOR | $ | 7,097,564.54 | $ | 33.70 |
| DIRECT LABOR - OTHER COST | $ | 36,310.26 | $ | 0.17 |
| OTHER TOOLS - SALARIES | $ | 2,364.73 | $ | 0.01 |
| OTHER TOOLS - BENEFITS | $ | 534.74 | $ | 0.00 |
| OTHER TOOLS - RENTS | $ | 1,230.02 | $ | 0.01 |
| OTHER TOOLS - OTHER | $ | 264,508.03 | $ | 1.26 |
| MOTOR VEHICLES - SALARIES | $ | 32,460.33 | $ | 0.15 |
| MOTOR VEHICLES - BENEFITS | $ | 6,508.20 | $ | 0.03 |
| MOTOR VEHICLES - RENTS | $ | 15.94 | $ | 0.00 |
| MOTOR VEHICLES - OTHER | $ | 305,391.71 | $ | 1.45 |
| DIRECTLY ASSIGNED BENEFITS | $ | 1,501,134.80 | $ | 7.13 |
| TOTAL DIRECTLY ASSIGNED | $ | 9,248,023.30 | $ | 43.91 |
| TOTAL CLASSIFIED PROD HOURS | | 210,630.25 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: TRUNK AND CARRIER GROUP | | |
| WCT: TCG | | |
| JFC: 4N5X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 7,588,243.98 | $ 21.78 |
| DIRECT LABOR - PREMIUM | $ 196,441.34 | $ 0.56 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 146,342.09 | $ 0.42 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 1,204,828.19 | $ 3.46 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 1,422,508.03 | $ 4.08 |
| TOTAL DIRECT LABOR | $ 10,558,363.63 | $ 30.30 |
| DIRECT LABOR - OTHER COST | $ 127,735.87 | $ 0.37 |
| OTHER TOOLS - SALARIES | $ 1,916.22 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 353.56 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 11,078.98 | $ 0.03 |
| OTHER TOOLS - OTHER | $ 469,439.69 | $ 1.35 |
| MOTOR VEHICLES - SALARIES | $ 53,990.78 | $ 0.15 |
| MOTOR VEHICLES - BENEFITS | $ 11,230.65 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 486.94 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 488,508.13 | $ 1.40 |
| DIRECTLY ASSIGNED BENEFITS | $ 1,902,366.12 | $ 5.46 |
| TOTAL DIRECTLY ASSIGNED | $ 13,625,470.57 | $ 39.10 |
| TOTAL CLASSIFIED PROD HOURS | 348,444.45 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: NETWORK RELIABILITY CENTER | | |
| WCT: NRC | | |
| JFC: 4LXX | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 21,192,531.17 | $ 22.52 |
| DIRECT LABOR - PREMIUM | $ 1,711,520.41 | $ 1.82 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 406,267.75 | $ 0.43 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 2,621,060.50 | $ 2.79 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 2,429,091.50 | $ 2.58 |
| TOTAL DIRECT LABOR | $ 28,360,471.33 | $ 30.14 |
| DIRECT LABOR - OTHER COST | $ 1,515,597.92 | $ 1.61 |
| OTHER TOOLS - SALARIES | $ 1,173.46 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 303.78 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 5,333.36 | $ 0.01 |
| OTHER TOOLS - OTHER | $ 927,899.41 | $ 0.99 |
| MOTOR VEHICLES - SALARIES | $ 128,458.05 | $ 0.14 |
| MOTOR VEHICLES - BENEFITS | $ 25,646.19 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 25.30 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 1,197,203.19 | $ 1.27 |
| DIRECTLY ASSIGNED BENEFITS | $ 5,086,411.20 | $ 5.41 |
| TOTAL DIRECTLY ASSIGNED | $ 37,248,523.19 | $ 39.59 |
| TOTAL CLASSIFIED PROD HOURS | 940,878.35 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: PROACTIVE ANALYSIS AND REPAIR CENTER | | | | |
| WCT: PAR | | | | |
| JFC: 4PXX | | | | |
| | | | | 1998 CLASSIFIED |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ | 1,010,902.03 | $ | 18.89 |
| DIRECT LABOR - PREMIUM | $ | 24,180.91 | $ | 0.45 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 22,011.57 | $ | 0.41 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 163,052.12 | $ | 3.05 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 632,528.92 | $ | 11.82 |
| TOTAL DIRECT LABOR | $ | 1,852,675.55 | $ | 34.62 |
| DIRECT LABOR - OTHER COST | $ | 4,515.36 | $ | 0.08 |
| OTHER TOOLS - SALARIES | $ | 0.71 | $ | 0.00 |
| OTHER TOOLS - BENEFITS | $ | 0.14 | $ | 0.00 |
| OTHER TOOLS - RENTS | $ | 0.81 | $ | 0.00 |
| OTHER TOOLS - OTHER | $ | 121.62 | $ | 0.00 |
| MOTOR VEHICLES - SALARIES | $ | 23.00 | $ | 0.00 |
| MOTOR VEHICLES - BENEFITS | $ | 4.89 | $ | 0.00 |
| MOTOR VEHICLES - RENTS | $ | 0.03 | $ | 0.00 |
| MOTOR VEHICLES - OTHER | $ | 174.46 | $ | 0.00 |
| DIRECTLY ASSIGNED BENEFITS | $ | 255,399.57 | $ | 4.77 |
| TOTAL DIRECTLY ASSIGNED | $ | 2,112,916.14 | $ | 39.49 |
| TOTAL CLASSIFIED PROD HOURS | | 53,510.50 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: CIRCUIT PROVISIONING GROUP | | |
| WCT: CPG | | |
| JFC: 4N4X | | |
| | | 1998 CLASSIFIED HOURLY COST (B/B32) |
| COMPONENT | 1998 DOLLARS** | |
| DIRECT LABOR - PRODUCTIVE | $ 9,475,341.34 | $ 17.51 |
| DIRECT LABOR - PREMIUM | $ 298,953.47 | $ 0.55 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 206,843.52 | $ 0.38 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 1,641,545.89 | $ 3.03 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 2,351,423.08 | $ 4.35 |
| TOTAL DIRECT LABOR | $ 13,974,107.30 | $ 25.83 |
| DIRECT LABOR - OTHER COST | $ 37,642.69 | $ 0.07 |
| OTHER TOOLS - SALARIES | $ 12.75 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 1.88 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 28.82 | $ 0.00 |
| OTHER TOOLS - OTHER | $ 5,292.31 | $ 0.01 |
| MOTOR VEHICLES - SALARIES | $ 505.00 | $ 0.00 |
| MOTOR VEHICLES - BENEFITS | $ 121.66 | $ 0.00 |
| MOTOR VEHICLES - RENTS | $ 0.35 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 4,433.21 | $ 0.01 |
| DIRECTLY ASSIGNED BENEFITS | $ 2,448,205.50 | $ 4.53 |
| TOTAL DIRECTLY ASSIGNED | $ 16,470,351.47 | $ 30.45 |
| TOTAL CLASSIFIED PROD HOURS | 540,985.50 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: ACCESS CUSTOMER ADVOCATE CENTER | | |
| WCT: ACAC | | |
| JFC: 4AXX | | |
| | | 1998 |
| | | CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 19,814,003.40 | $ 20.76 |
| DIRECT LABOR - PREMIUM | $ 2,148,727.15 | $ 2.25 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 428,095.93 | $ 0.45 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 2,342,702.15 | $ 2.45 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 3,579,956.82 | $ 3.75 |
| TOTAL DIRECT LABOR | $ 28,313,485.45 | $ 29.66 |
| DIRECT LABOR - OTHER COST | $ 124,703.69 | $ 0.13 |
| OTHER TOOLS - SALARIES | $ - | $ - |
| OTHER TOOLS - BENEFITS | $ - | $ - |
| OTHER TOOLS - RENTS | $ 0.39 | $ 0.00 |
| OTHER TOOLS - OTHER | $ 87.61 | $ 0.00 |
| MOTOR VEHICLES - SALARIES | $ 10.06 | $ 0.00 |
| MOTOR VEHICLES - BENEFITS | $ 1.44 | $ 0.00 |
| MOTOR VEHICLES - RENTS | $ 0.01 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 91.22 | $ 0.00 |
| DIRECTLY ASSIGNED BENEFITS | $ 4,665,126.69 | $ 4.89 |
| TOTAL DIRECTLY ASSIGNED | $ 33,103,506.56 | $ 34.68 |
| TOTAL CLASSIFIED PROD HOURS | 954,644.25 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: EQUIPMENT BILLING ACCURACY CONTROL | | | | |
| WCT: EBAC | | | | |
| JFC: 4N3X | | | | |
| | | | | 1998 CLASSIFIED |
| | | 1998 | | HOURLY COST |
| **COMPONENT** | | **DOLLARS**** | | **(B/B32)** |
| DIRECT LABOR - PRODUCTIVE | $ | 1,818,493.24 | | $17.37 |
| DIRECT LABOR - PREMIUM | $ | 29,223.53 | $ | 0.28 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 38,367.52 | $ | 0.37 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 320,421.12 | $ | 3.06 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 363,449.06 | $ | 3.47 |
| TOTAL DIRECT LABOR | $ | 2,569,954.47 | $ | 24.55 |
| DIRECT LABOR - OTHER COST | $ | 5,988.83 | $ | 0.06 |
| OTHER TOOLS - SALARIES | $ | 1,123.63 | $ | 0.01 |
| OTHER TOOLS - BENEFITS | $ | 189.05 | $ | 0.00 |
| OTHER TOOLS - RENTS | $ | 9,425.00 | $ | 0.09 |
| OTHER TOOLS - OTHER | $ | 136,958.76 | $ | 1.31 |
| MOTOR VEHICLES - SALARIES | $ | 17,262.94 | $ | 0.16 |
| MOTOR VEHICLES - BENEFITS | $ | 3,498.15 | $ | 0.03 |
| MOTOR VEHICLES - RENTS | $ | 112.43 | $ | 0.00 |
| MOTOR VEHICLES - OTHER | $ | 152,915.74 | $ | 1.46 |
| DIRECTLY ASSIGNED BENEFITS | $ | 453,210.82 | $ | 4.33 |
| TOTAL DIRECTLY ASSIGNED | $ | 3,350,639.82 | $ | 32.00 |
| TOTAL CLASSIFIED PROD HOURS | | 104,699.50 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: BUSINESS REPAIR CENTER | | |
| WCT: BRC | | |
| JFC: 4BXX | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 39,046,474.34 | $ 19.40 |
| DIRECT LABOR - PREMIUM | $ 3,229,170.75 | $ 1.60 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 798,576.97 | $ 0.40 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 5,903,496.54 | $ 2.93 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 6,770,935.55 | $ 3.36 |
| TOTAL DIRECT LABOR | $ 55,748,654.15 | $ 27.70 |
| DIRECT LABOR - OTHER COST | $ 141,909.52 | $ 0.07 |
| OTHER TOOLS - SALARIES | $ 1,197.72 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 128.29 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 32,490.83 | $ 0.02 |
| OTHER TOOLS - OTHER | $ 229,556.46 | $ 0.11 |
| MOTOR VEHICLES - SALARIES | $ 25,559.35 | $ 0.01 |
| MOTOR VEHICLES - BENEFITS | $ 5,784.94 | $ 0.00 |
| MOTOR VEHICLES - RENTS | $ 169.37 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 208,014.70 | $ 0.10 |
| DIRECTLY ASSIGNED BENEFITS | $ 10,348,159.79 | $ 5.14 |
| TOTAL DIRECTLY ASSIGNED | $ 66,741,625.12 | $ 33.16 |
| TOTAL CLASSIFIED PROD HOURS | 2,012,872.75 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: RESIDENCE REPAIR CENTER | | | | |
| WCT: RRC | | | | |
| JFC: 4RXX | | | | |
| | | | | 1998 CLASSIFIED |
| COMPONENT | | 1998 DOLLARS** | | HOURLY COST (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ | 23,673,736.27 | $ | 16.05 |
| DIRECT LABOR - PREMIUM | $ | 2,465,553.99 | $ | 1.67 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 647,541.92 | $ | 0.44 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 3,015,843.65 | $ | 2.04 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 4,513,061.75 | $ | 3.06 |
| TOTAL DIRECT LABOR | $ | 34,315,737.58 | $ | 23.26 |
| DIRECT LABOR - OTHER COST | $ | 43,399.85 | $ | 0.03 |
| OTHER TOOLS - SALARIES | $ | 199.42 | $ | 0.00 |
| OTHER TOOLS - BENEFITS | $ | 42.46 | $ | 0.00 |
| OTHER TOOLS - RENTS | $ | 207.46 | $ | 0.00 |
| OTHER TOOLS - OTHER | $ | 47,707.51 | $ | 0.03 |
| MOTOR VEHICLES - SALARIES | $ | 5,495.93 | $ | 0.00 |
| MOTOR VEHICLES - BENEFITS | $ | 1,186.87 | $ | 0.00 |
| MOTOR VEHICLES - RENTS | $ | 20.91 | $ | 0.00 |
| MOTOR VEHICLES - OTHER | $ | 48,621.77 | $ | 0.03 |
| DIRECTLY ASSIGNED BENEFITS | $ | 6,406,664.58 | $ | 4.34 |
| TOTAL DIRECTLY ASSIGNED | $ | 40,869,284.34 | $ | 27.71 |
| TOTAL CLASSIFIED PROD HOURS | | 1,475,131.50 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| | | |
| | | |
| STATE: REGION | | |
| FG/FSG: WORK MANAGEMENT CENTER | | |
| WCT: WMC | | |
| JFC: 4WXX | | |
| | | |
| | | 1998 |
| | | CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| | | |
| DIRECT LABOR - PRODUCTIVE | $ 25,556,675.00 | $ 16.52 |
| DIRECT LABOR - PREMIUM | $ 1,629,873.62 | $ 1.05 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 583,689.68 | $ 0.38 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 4,221,771.80 | $ 2.73 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 7,494,786.46 | $ 4.85 |
| TOTAL DIRECT LABOR | $ 39,486,796.56 | $ 25.53 |
| DIRECT LABOR - OTHER COST | $ 81,803.13 | $ 0.05 |
| OTHER TOOLS - SALARIES | $ 29.44 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 7.43 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 76.00 | $ 0.00 |
| OTHER TOOLS - OTHER | $ 12,584.75 | $ 0.01 |
| MOTOR VEHICLES - SALARIES | $ 1,315.06 | $ 0.00 |
| MOTOR VEHICLES - BENEFITS | $ 331.09 | $ 0.00 |
| MOTOR VEHICLES - RENTS | $ 1.17 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 10,942.32 | $ 0.01 |
| DIRECTLY ASSIGNED BENEFITS | $ 6,269,577.19 | $ 4.05 |
| TOTAL DIRECTLY ASSIGNED | $ 45,863,464.14 | $ 29.65 |
| TOTAL CLASSIFIED PROD HOURS | 1,546,686.50 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: NETWORK BURIED FACILITY | | |
| WCT: NBF | | |
| JFC: 490X | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 7,285,289.68 | $ 11.89 |
| DIRECT LABOR - PREMIUM | $ 541,044.32 | $ 0.88 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 219,791.49 | $ 0.36 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 467,481.83 | $ 0.76 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 1,971,120.34 | $ 3.22 |
| TOTAL DIRECT LABOR | $ 10,484,727.66 | $ 17.11 |
| DIRECT LABOR - OTHER COST | $ 20,775.67 | $ 0.03 |
| OTHER TOOLS - SALARIES | $ 5,321.17 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 152.33 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 193,881.87 | $ 0.32 |
| OTHER TOOLS - OTHER | $ 902,417.00 | $ 1.47 |
| MOTOR VEHICLES - SALARIES | $ 102,035.20 | $ 0.17 |
| MOTOR VEHICLES - BENEFITS | $ 20,338.35 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 509.43 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 802,295.51 | $ 1.31 |
| DIRECTLY ASSIGNED BENEFITS | $ 1,625,394.03 | $ 2.65 |
| TOTAL DIRECTLY ASSIGNED | $ 14,157,848.22 | $ 23.10 |
| TOTAL CLASSIFIED PROD HOURS | 612,782.26 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: REGIONAL NETWORK OPERATIONS CTR | | |
| WCT: RNOC | | |
| JFC: 4DXX | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 1,888,854.94 | $ 19.16 |
| DIRECT LABOR - PREMIUM | $ 224,634.66 | $ 2.28 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 31,535.36 | $ 0.32 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 284,748.62 | $ 2.89 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 418,434.92 | $ 4.25 |
| TOTAL DIRECT LABOR | $ 2,848,208.50 | $ 28.90 |
| DIRECT LABOR - OTHER COST | $ 15,651.94 | $ 0.16 |
| OTHER TOOLS - SALARIES | $ 63.70 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 16.56 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 244.37 | $ 0.00 |
| OTHER TOOLS - OTHER | $ 55,209.27 | $ 0.56 |
| MOTOR VEHICLES - SALARIES | $ 6,619.46 | $ 0.07 |
| MOTOR VEHICLES - BENEFITS | $ 1,219.05 | $ 0.01 |
| MOTOR VEHICLES - RENTS | $ 3.38 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 59,790.38 | $ 0.61 |
| DIRECTLY ASSIGNED BENEFITS | $ 506,236.97 | $ 5.14 |
| TOTAL DIRECTLY ASSIGNED | $ 3,493,263.58 | $ 35.44 |
| TOTAL CLASSIFIED PROD HOURS | 98,567.75 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: COMPANY INITIATED ACTIVITIES CENTER | | |
| WCT: CIA | | |
| JFC: 4EXX | | |
| | | 1998 CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 5,107,569.95 | $ 21.48 |
| DIRECT LABOR - PREMIUM | $ 167,786.52 | $ 0.71 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 102,642.16 | $ 0.43 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 834,281.38 | $ 3.51 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 835,794.84 | $ 3.51 |
| TOTAL DIRECT LABOR | $ 7,048,074.85 | $ 29.64 |
| DIRECT LABOR - OTHER COST | $ 37,408.47 | $ 0.16 |
| OTHER TOOLS - SALARIES | $ 433.61 | $ 0.00 |
| OTHER TOOLS - BENEFITS | $ 73.33 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 3,650.52 | $ 0.02 |
| OTHER TOOLS - OTHER | $ 78,728.42 | $ 0.33 |
| MOTOR VEHICLES - SALARIES | $ 9,380.31 | $ 0.04 |
| MOTOR VEHICLES - BENEFITS | $ 1,941.28 | $ 0.01 |
| MOTOR VEHICLES - RENTS | $ 71.44 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 85,242.58 | $ 0.36 |
| DIRECTLY ASSIGNED BENEFITS | $ 1,290,782.38 | $ 5.43 |
| TOTAL DIRECTLY ASSIGNED | $ 8,555,787.19 | $ 35.98 |
| TOTAL CLASSIFIED PROD HOURS | 237,782.05 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| FG/FSG: SERVICE ADVOCACY CENTER | | |
| WCT: SAC | | |
| JFC: 4FXX | | |
| | | 1998 |
| | | CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B32) |
| DIRECT LABOR - PRODUCTIVE | $ 4,092,817.96 | $ 16.13 |
| DIRECT LABOR - PREMIUM | $ 162,665.13 | $ 0.64 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 86,056.89 | $ 0.34 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 706,098.48 | $ 2.78 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 553,843.97 | $ 2.18 |
| TOTAL DIRECT LABOR | $ 5,601,482.43 | $ 22.08 |
| DIRECT LABOR - OTHER COST | $ 27,095.04 | $ 0.11 |
| OTHER TOOLS - SALARIES | $ 1,840.59 | $ 0.01 |
| OTHER TOOLS - BENEFITS | $ 325.56 | $ 0.00 |
| OTHER TOOLS - RENTS | $ 12,836.88 | $ 0.05 |
| OTHER TOOLS - OTHER | $ 342,781.26 | $ 1.35 |
| MOTOR VEHICLES - SALARIES | $ 38,973.82 | $ 0.15 |
| MOTOR VEHICLES - BENEFITS | $ 8,203.44 | $ 0.03 |
| MOTOR VEHICLES - RENTS | $ 318.79 | $ 0.00 |
| MOTOR VEHICLES - OTHER | $ 350,432.17 | $ 1.38 |
| DIRECTLY ASSIGNED BENEFITS | $ 1,107,026.55 | $ 4.36 |
| TOTAL DIRECTLY ASSIGNED | $ 7,491,316.53 | $ 29.52 |
| TOTAL CLASSIFIED PROD HOURS | 253,738.50 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: LAND AND BUILDINGS (FG10) | | | | |
| JFC: 30XX | | | | |
| | | | | 1998 CLASSIFIED |
| | | 1998 | | HOURLY COST |
| **COMPONENT** | | **DOLLARS**** | | **(B/B23)** |
| DIRECT ENGINEERING - PRODUCTIVE | $ | 1,042,215.89 | $ | 44.82 |
| DIRECT ENGINEERING - PREMIUM | $ | 2,630.46 | $ | 0.11 |
| DIRECT ENGINEERING - OTHER EMPLOYEE | $ | 125,556.39 | $ | 5.40 |
| DIRECT ENGINEERING - ANNUAL PAID ABSENCE | $ | 108,891.41 | $ | 4.68 |
| DIRECT ENGINEERING - DIRECT ADMINISTRATIO | $ | 142,387.77 | $ | 6.12 |
| TOTAL DIRECT LABOR | $ | 1,421,681.92 | $ | 61.13 |
| DIRECT ENGINEERING - OTHER COSTS | $ | 57,671.48 | $ | 2.48 |
| DIRECTLY ASSIGNED BENEFITS | $ | 268,478.05 | $ | 11.54 |
| TOTAL DIRECTLY ASSIGNED | $ | 1,747,831.45 | $ | 75.16 |
| TOTAL CLASSIFIED PROD HOURS | | 23,255.30 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: NETWORK AND ENGINEERING PLANNING (FG20) | | | | |
| JFC: 34XX OR 3AXX | | | | |
| | | | | 1998 |
| | | | | CLASSIFIED |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B23) |
| DIRECT ENGINEERING - PRODUCTIVE | $ | 42,011,743.18 | $ | 25.03 |
| DIRECT ENGINEERING - PREMIUM | $ | 255,219.51 | $ | 0.15 |
| DIRECT ENGINEERING - OTHER EMPLOYEE | $ | 5,324,325.70 | $ | 3.17 |
| DIRECT ENGINEERING - ANNUAL PAID ABSENCE | $ | 5,733,917.18 | $ | 3.42 |
| DIRECT ENGINEERING - DIRECT ADMINISTRATIO | $ | 9,172,616.92 | $ | 5.47 |
| TOTAL DIRECT LABOR | $ | 62,497,822.49 | $ | 37.24 |
| DIRECT ENGINEERING - OTHER COSTS | $ | 2,427,149.13 | $ | 1.45 |
| DIRECTLY ASSIGNED BENEFITS | $ | 12,513,211.57 | $ | 7.46 |
| TOTAL DIRECTLY ASSIGNED | $ | 77,438,183.19 | $ | 46.14 |
| TOTAL CLASSIFIED PROD HOURS | | 1,678,295.17 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| FG/FSG: NETWORK PLUG-IN ADMINISTRATION (PICS) | | | | |
| JFC: 3A2X | | | | |
| | | | | 1998 |
| | | | | CLASSIFIED |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B23) |
| DIRECT ENGINEERING - PRODUCTIVE | $ | 3,302,276.05 | $ | 19.68 |
| DIRECT ENGINEERING - PREMIUM | $ | 211,969.18 | $ | 1.26 |
| DIRECT ENGINEERING - OTHER EMPLOYEE | $ | 175,040.56 | $ | 1.04 |
| DIRECT ENGINEERING - ANNUAL PAID ABSENCE | $ | 384,448.06 | $ | 2.29 |
| DIRECT ENGINEERING - DIRECT ADMINISTRATIO | $ | 426,476.46 | $ | 2.54 |
| TOTAL DIRECT LABOR | $ | 4,500,210.31 | $ | 26.82 |
| DIRECT ENGINEERING - OTHER COSTS | $ | 199,306.08 | $ | 1.19 |
| DIRECTLY ASSIGNED BENEFITS | $ | 925,889.75 | $ | 5.52 |
| TOTAL DIRECTLY ASSIGNED | $ | 5,625,406.14 | $ | 33.52 |
| TOTAL CLASSIFIED PROD HOURS | | 167,815.75 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| | | |
| STATE: REGION | | |
| FG/FSG: OUTSIDE PLANT ENGINEERING (FG30) | | |
| JFC: 32XX | | |
| | | |
| | | 1998 |
| | | CLASSIFIED |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| | | |
| DIRECT ENGINEERING - PRODUCTIVE | $ 33,783,303.15 | $ 20.85 |
| DIRECT ENGINEERING - PREMIUM | $ 581,358.14 | $ 0.36 |
| DIRECT ENGINEERING - OTHER EMPLOYEE | $ 3,684,657.91 | $ 2.27 |
| DIRECT ENGINEERING - ANNUAL PAID ABSENCE | $ 4,885,280.54 | $ 3.02 |
| DIRECT ENGINEERING - DIRECT ADMINISTRATIO | $ 9,962,730.93 | $ 6.15 |
| TOTAL DIRECT LABOR | $ 52,897,330.67 | $ 32.65 |
| DIRECT ENGINEERING - OTHER COSTS | $ 794,199.75 | $ 0.49 |
| DIRECTLY ASSIGNED BENEFITS | $ 10,330,155.50 | $ 6.38 |
| TOTAL DIRECTLY ASSIGNED | $ 64,021,685.92 | $ 39.52 |
| TOTAL CLASSIFIED PROD HOURS | 1,620,126.77 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: CUSTOMER POINT OF CONTACT-ICSC/LCSC | | |
| JFC: 230X | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ 17,382,480.76 | $ 17.25 |
| DIRECT LABOR - PREMIUM | $ 1,745,963.09 | $ 1.73 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 424,960.75 | $ 0.42 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 2,224,640.54 | $ 2.21 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 2,266,159.04 | $ 2.25 |
| TOTAL DIRECT LABOR | $ 24,044,204.18 | $ 23.86 |
| DIRECT LABOR - OTHER COST | $ 66,075.33 | $ 0.07 |
| DIRECTLY ASSIGNED BENEFITS | $ 4,323,164.30 | $ 4.29 |
| TOTAL DIRECTLY ASSIGNED | $ 28,433,443.81 | $ 28.21 |
| TOTAL HOURS | 1,007,812.01 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

# TOLL & ASSIST - COMBINED

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: TOLL & ASSIST - COMBINED | | |
| JFC: 212X | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ 17,122,437.06 | $ 15.23 |
| DIRECT LABOR - PREMIUM | $ 1,367,871.10 | $ 1.22 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 432,513.41 | $ 0.38 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 3,174,320.17 | $ 2.82 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 1,063,303.35 | $ 0.95 |
| TOTAL DIRECT LABOR | $ 23,160,445.09 | $ 20.60 |
| DIRECT LABOR - OTHER COST | $ 35,945.03 | $ 0.03 |
| DIRECTLY ASSIGNED BENEFITS | $ 5,108,700.48 | $ 4.54 |
| TOTAL DIRECTLY ASSIGNED | $ 28,305,090.60 | $ 25.17 |
| TOTAL HOURS | 1,124,508.56 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| GROUP: CALL COMPLETION ATTENDANTS | | | | |
| JFC: 212XA | | | | |
| | | | | 1998 |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ | 867,839.48 | $ | 7.50 |
| DIRECT LABOR - PREMIUM | $ | 69,329.65 | $ | 0.60 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 21,921.66 | $ | 0.19 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 160,888.33 | $ | 1.39 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 114,468.03 | $ | 0.99 |
| TOTAL DIRECT LABOR | $ | 1,234,447.15 | $ | 10.67 |
| DIRECT LABOR - OTHER COST | $ | 1,915.86 | $ | 0.02 |
| DIRECTLY ASSIGNED BENEFITS | $ | 272,292.73 | $ | 2.35 |
| TOTAL DIRECTLY ASSIGNED | $ | 1,508,655.74 | $ | 13.04 |
| TOTAL HOURS | | 115,711.93 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |
| % Direct Administration | | 13.19% | | |
| % Call Completion Attendant Hours | | 10.29% | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: TOLL & ASSIST OPERATORS | | |
| JFC: 212XO | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ 16,254,597.58 | $ 16.11 |
| DIRECT LABOR - PREMIUM | $ 1,298,541.45 | $ 1.29 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 410,591.75 | $ 0.41 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 3,013,431.84 | $ 2.99 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 948,835.32 | $ 0.94 |
| TOTAL DIRECT LABOR | $ 21,925,997.94 | $ 21.73 |
| DIRECT LABOR - OTHER COST | $ 34,029.17 | $ 0.03 |
| DIRECTLY ASSIGNED BENEFITS | $ 4,836,407.75 | $ 4.79 |
| TOTAL DIRECTLY ASSIGNED | $ 26,796,434.86 | $ 26.56 |
| TOTAL HOURS | 1,008,796.63 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |
| % Direct Administration | 5.83% | |
| % Toll & Assist Operator Hours | 89.71% | |

# DIR ASSIST - COMBINED

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: DIRECTORY ASSISTANCE - COMBINED | | |
| JFC: 294X | | |
| | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| **COMPONENT** | **DOLLARS**** | **(B/B23)** |
| DIRECT LABOR - PRODUCTIVE | $ 69,519,046.63 | $ 14.47 |
| DIRECT LABOR - PREMIUM | $ 3,950,989.06 | $ 0.82 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 2,190,780.07 | $ 0.46 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 12,128,738.38 | $ 2.52 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 3,886,114.71 | $ 0.81 |
| TOTAL DIRECT LABOR | $ 91,675,668.85 | $ 19.08 |
| DIRECT LABOR - OTHER COST | $ 291,172.42 | $ 0.06 |
| DIRECTLY ASSIGNED BENEFITS | $ 19,878,339.24 | $ 4.14 |
| TOTAL DIRECTLY ASSIGNED | $ 111,845,180.51 | $ 23.28 |
| TOTAL HOURS | 4,805,275.94 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: DIRECTORY ASSISTANCE ATTENDANTS | | |
| JFC: 294XA | | |
| | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| | | |
| DIRECT LABOR - PRODUCTIVE | $ 4,231,045.47 | $ 7.50 |
| DIRECT LABOR - PREMIUM | $ 240,463.80 | $ 0.43 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 133,334.54 | $ 0.24 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 738,175.31 | $ 1.31 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 431,989.74 | $ 0.77 |
| TOTAL DIRECT LABOR | $ 5,775,008.86 | $ 10.24 |
| DIRECT LABOR - OTHER COST | $ 18,342.09 | $ 0.03 |
| DIRECTLY ASSIGNED BENEFITS | $ 1,252,214.32 | $ 2.22 |
| TOTAL DIRECTLY ASSIGNED | $ 7,045,565.26 | $ 12.49 |
| TOTAL HOURS | 564,139.40 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |
| | | |
| % Direct Administration | 10.21% | |
| % Directory Assistance Attendant Hours | 11.74% | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| GROUP: DIRECTORY ASSISTANCE OPERATORS | | | | |
| JFC: 294XO | | | | |
| | | | | 1998 |
| | | 1998 | | HOURLY COST |
| **COMPONENT** | | **DOLLARS**** | | **(B/B23)** |
| DIRECT LABOR - PRODUCTIVE | $ | 65,288,001.16 | $ | 15.39 |
| DIRECT LABOR - PREMIUM | $ | 3,710,525.26 | $ | 0.87 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 2,057,445.53 | $ | 0.49 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 11,390,563.07 | $ | 2.69 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 3,454,124.97 | $ | 0.81 |
| TOTAL DIRECT LABOR | $ | 85,900,659.99 | $ | 20.25 |
| DIRECT LABOR - OTHER COST | $ | 272,830.33 | $ | 0.06 |
| DIRECTLY ASSIGNED BENEFITS | $ | 18,626,124.92 | $ | 4.39 |
| TOTAL DIRECTLY ASSIGNED | $ | 104,799,615.25 | $ | 24.71 |
| TOTAL HOURS | | 4,241,136.54 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |
| % Direct Administration | | 5.30% | | |
| % Directory Assistance Operator Hours | | 88.26% | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| GROUP: CUSTOMER BILLING | | | | |
| JFC: 260X | | | | |
| | | | | 1998 |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ | 5,056,422.09 | $ | 16.82 |
| DIRECT LABOR - PREMIUM | $ | 148,517.78 | $ | 0.49 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 177,800.81 | $ | 0.59 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 781,760.31 | $ | 2.60 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 632,052.76 | $ | 2.10 |
| TOTAL DIRECT LABOR | $ | 6,796,553.75 | $ | 22.61 |
| DIRECT LABOR - OTHER COST | $ | 3,991.99 | $ | 0.01 |
| DIRECTLY ASSIGNED BENEFITS | $ | 1,226,109.21 | $ | 4.08 |
| TOTAL DIRECTLY ASSIGNED | $ | 8,026,654.95 | $ | 26.70 |
| TOTAL HOURS | | 300,648.72 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: COLLECTIONS REPRESENTATIVE | | |
| JFC: 2E4X | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ 42,021,293.14 | $ 16.68 |
| DIRECT LABOR - PREMIUM | $ 2,134,219.61 | $ 0.85 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 1,140,200.09 | $ 0.45 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 6,547,866.91 | $ 2.60 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 5,233,529.76 | $ 2.08 |
| TOTAL DIRECT LABOR | $ 57,077,109.51 | $ 22.66 |
| DIRECT LABOR - OTHER COST | $ 215,028.55 | $ 0.09 |
| DIRECTLY ASSIGNED BENEFITS | $ 11,288,885.79 | $ 4.48 |
| TOTAL DIRECTLY ASSIGNED | $ 68,581,023.85 | $ 27.23 |
| TOTAL HOURS | 2,518,632.98 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: CUSTOMER SERVICE | | |
| JFC: 2E5X | | |
| | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| | | |
| DIRECT LABOR - PRODUCTIVE | $ 110,476,729.31 | $ 16.96 |
| DIRECT LABOR - PREMIUM | $ 7,265,546.13 | $ 1.12 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 3,785,678.86 | $ 0.58 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 15,377,886.66 | $ 2.36 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 13,674,007.53 | $ 2.10 |
| TOTAL DIRECT LABOR | $ 150,579,848.49 | $ 23.11 |
| DIRECT LABOR - OTHER COST | $ 803,485.39 | $ 0.12 |
| DIRECTLY ASSIGNED BENEFITS | $ 29,399,775.62 | $ 4.51 |
| TOTAL DIRECTLY ASSIGNED | $ 180,783,109.50 | $ 27.75 |
| TOTAL HOURS | 6,515,836.57 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: SALES - CUSTOMER SERVICE RELATED | | |
| JFC: 287X | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ 88,372,146.68 | $ 17.02 |
| DIRECT LABOR - PREMIUM | $ 5,480,874.31 | $ 1.06 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 2,651,521.81 | $ 0.51 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 12,118,594.81 | $ 2.33 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 11,336,172.13 | $ 2.18 |
| TOTAL DIRECT LABOR | $ 119,959,309.74 | $ 23.10 |
| DIRECT LABOR - OTHER COST | $ 1,056,303.08 | $ 0.20 |
| DIRECTLY ASSIGNED BENEFITS | $ 23,496,648.13 | $ 4.53 |
| TOTAL DIRECTLY ASSIGNED | $ 144,512,260.95 | $ 27.83 |
| TOTAL HOURS | 5,192,228.57 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | B | C |
|---|---|---|
| STATE: REGION | | |
| GROUP: COMPTROLLERS CLERICAL | | |
| JFC: 124X OR 125X OR 126X OR 127X | | |
| | | 1998 |
| | 1998 | HOURLY COST |
| COMPONENT | DOLLARS** | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ 7,343,470.85 | $ 15.60 |
| DIRECT LABOR - PREMIUM | $ 650,830.95 | $ 1.38 |
| DIRECT LABOR - OTHER EMPLOYEE | $ 154,432.85 | $ 0.33 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ 963,302.51 | $ 2.05 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 917,933.86 | $ 1.95 |
| TOTAL DIRECT LABOR | $ 10,029,971.02 | $ 21.31 |
| DIRECT LABOR - OTHER COST | $ 4,048.44 | $ 0.01 |
| DIRECTLY ASSIGNED BENEFITS | $ 1,698,772.28 | $ 3.61 |
| TOTAL DIRECTLY ASSIGNED | $ 11,732,791.74 | $ 24.92 |
| TOTAL HOURS | 470,755.43 | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| GROUP: NETWORK SERVICES CLERICAL | | | | |
| JFC: 2700 OR 2701 OR 2730 OR 2751 | | | | |
| | | | | 1998 |
| | | 1998 | | HOURLY COST |
| **COMPONENT** | | **DOLLARS**** | | **(B/B23)** |
| DIRECT LABOR - PRODUCTIVE | $ | 4,547,033.44 | $ | 16.18 |
| DIRECT LABOR - PREMIUM | $ | 130,083.88 | $ | 0.46 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 99,907.32 | $ | 0.36 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 806,212.79 | $ | 2.87 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 568,379.18 | $ | 2.02 |
| TOTAL DIRECT LABOR | $ | 6,151,616.61 | $ | 21.89 |
| DIRECT LABOR - OTHER COST | $ | 69,197.78 | $ | 0.25 |
| DIRECTLY ASSIGNED BENEFITS | $ | 1,180,384.66 | $ | 4.20 |
| TOTAL DIRECTLY ASSIGNED | $ | 7,401,199.05 | $ | 26.34 |
| TOTAL HOURS | | 281,026.91 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

| A | | B | | C |
|---|---|---|---|---|
| STATE: REGION | | | | |
| GROUP: COMPLEX RESALE SUPPORT GROUP | | | | |
| JFC: 221X | | | | |
| | | | | 1998 |
| | | 1998 | | HOURLY COST |
| COMPONENT | | DOLLARS** | | (B/B23) |
| DIRECT LABOR - PRODUCTIVE | $ | 2,722,283.45 | $ | 15.60 |
| DIRECT LABOR - PREMIUM | $ | 59,786.75 | $ | 0.34 |
| DIRECT LABOR - OTHER EMPLOYEE | $ | 745,617.22 | $ | 4.27 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ | 267,965.39 | $ | 1.54 |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ | 340,285.43 | $ | 1.95 |
| TOTAL DIRECT LABOR | $ | 4,135,938.24 | $ | 23.70 |
| DIRECT LABOR - OTHER COST | $ | 24,800.10 | $ | 0.14 |
| DIRECTLY ASSIGNED BENEFITS | $ | 761,937.69 | $ | 4.37 |
| TOTAL DIRECTLY ASSIGNED | $ | 4,922,676.03 | $ | 28.21 |
| TOTAL HOURS | | 174,508.67 | | |
| **DATA EXTRACT FROM FINANCIAL FRONT END SYSTEM | | | | |

05-Nov-99

**DIRECTLY ASSIGNED LABOR RATES FOR**

**ACCOUNT EXECUTIVE, SYSTEMS DESIGNER AND SERVICE CONSULTANT**

| | | 1998 HOURLY RATE |
|---|---|---|
| **ACCOUNT EXECUTIVE** | | |
| DIRECT SALARIES AND WAGES | $ | 27.47 |
| OTHER DIRECT | $ | 18.34 |
| **DIRECTLY ASSIGNED WITH SALES COMP** | **$** | **45.81** |
| DIRECT SALARIES AND WAGES | $ | 27.47 |
| OTHER DIRECT | $ | 6.99 |
| **DIRECTLY ASSIGNED WITHOUT SALES COMP** | **$** | **34.46** |
| **SYSTEMS DESIGNER** | | |
| DIRECT SALARIES AND WAGES | $ | 35.36 |
| OTHER DIRECT | $ | 10.95 |
| **DIRECTLY ASSIGNED WITH SALES COMP** | **$** | **46.31** |
| DIRECT SALARIES AND WAGES | $ | 35.36 |
| OTHER DIRECT | $ | 7.07 |
| **DIRECTLY ASSIGNED WITHOUT SALES COMP** | **$** | **42.43** |
| **SERVICE CONSULTANT** | | |
| DIRECT SALARIES AND WAGES | $ | 25.85 |
| OTHER DIRECT | $ | 4.89 |
| **DIRECTLY ASSIGNED** | **$** | **30.74** |

SOURCE: FINANCE DEPARTMENT/BELLSOUTH BUSINESS SYSTEMS

# JOB GRADES & WAGE SCALES

05-Nov-99
STATE: REGION

| Component | JOB GRADE 54 | JOB GRADE 55 | JOB GRADE 56 | JOB GRADE 57 | JOB GRADE 58 | JOB GRADE 59 | JOB GRADE 60 | JOB GRADE 61 |
|---|---|---|---|---|---|---|---|---|
| DIRECT LABOR - PRODUCTIVE | $ 17.51 | $ 19.28 | $ 22.38 | $ 25.09 | $ 29.13 | $ 33.78 | $ 38.64 | $ 44.09 |
| DIRECT LABOR - PREMIUM | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - |
| DIRECT LABOR - OTHER EMPLOYEE | $ 2.88 | $ 3.17 | $ 3.68 | $ 4.12 | $ 4.79 | $ 5.55 | $ 6.35 | $ 7.24 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - |
| **TOTAL DIRECT LABOR** | $ 20.39 | $ 22.45 | $ 26.06 | $ 29.21 | $ 33.92 | $ 39.33 | $ 44.99 | $ 51.33 |
| DIRECT LABOR - OTHER COST | $ 1.09 | $ 1.20 | $ 1.39 | $ 1.56 | $ 1.81 | $ 2.09 | $ 2.40 | $ 2.73 |
| DIRECTLY ASSIGNED BENEFITS | $ 4.13 | $ 4.55 | $ 5.28 | $ 5.92 | $ 6.88 | $ 7.97 | $ 9.12 | $ 10.41 |
| **TOTAL DIRECTLY ASSIGNED** | $ 25.61 | $ 28.19 | $ 32.73 | $ 36.69 | $ 42.60 | $ 49.40 | $ 56.51 | $ 64.47 |

| COMPONENT | WAGE SCALE 10 | WAGE SCALE 14 | WAGE SCALE 16 | WAGE SCALE 18 | WAGE SCALE 23 | WAGE SCALE 32 |
|---|---|---|---|---|---|---|
| DIRECT LABOR - PRODUCTIVE | $ 15.54 | $ 16.29 | $ 16.79 | $ 17.17 | $ 18.15 | $ 22.21 |
| DIRECT LABOR - PREMIUM | $ - | $ - | $ - | $ - | $ - | $ - |
| DIRECT LABOR - OTHER EMPLOYEE | $ 0.37 | $ 0.38 | $ 0.40 | $ 0.41 | $ 0.43 | $ 0.52 |
| DIRECT LABOR - ANNUAL PAID ABSENCE | $ - | $ - | $ - | $ - | $ - | $ - |
| DIRECT LABOR - DIRECT ADMINISTRATION | $ 2.14 | $ 2.14 | $ 2.14 | $ 2.14 | $ 2.14 | $ 2.14 |
| **TOTAL DIRECT LABOR** | $ 18.05 | $ 18.82 | $ 19.33 | $ 19.72 | $ 20.72 | $ 24.88 |
| DIRECT LABOR - OTHER COST | $ 0.14 | $ 0.15 | $ 0.15 | $ 0.16 | $ 0.16 | $ 0.20 |
| DIRECTLY ASSIGNED BENEFITS | $ 3.66 | $ 3.81 | $ 3.92 | $ 4.00 | $ 4.20 | $ 5.04 |
| **TOTAL DIRECTLY ASSIGNED** | $ 21.85 | $ 22.78 | $ 23.40 | $ 23.87 | $ 25.09 | $ 30.12 |

**1998 RELATIONSHIPS FROM BST LABOR DATA**

| BST Labor Relationships | JOB GRADE 54 | JOB GRADE 55 | JOB GRADE 56 | JOB GRADE 57 | JOB GRADE 58 | JOB GRADE 59 | JOB GRADE 60 | JOB GRADE 61 |
|---|---|---|---|---|---|---|---|---|
| OTHER EMPLOYEE to PRODUCTIVE | 16.43% | 16.43% | 16.43% | 16.43% | 16.43% | 16.43% | 16.43% | 16.43% |
| DIRECT ADMINISTRATION to PRODUCTIVE | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| OTHER COST to TOTAL DIRECT LABOR | 5.33% | 5.33% | 5.33% | 5.33% | 5.33% | 5.33% | 5.33% | 5.33% |
| BENEFITS TO TOTAL DIRECT LABOR | 20.27% | 20.27% | 20.27% | 20.27% | 20.27% | 20.27% | 20.27% | 20.27% |

| BST Labor Relationships | WAGE SCALE 10 | WAGE SCALE 14 | WAGE SCALE 16 | WAGE SCALE 18 | WAGE SCALE 23 | WAGE SCALE 32 |
|---|---|---|---|---|---|---|
| OTHER EMPLOYEE to PRODUCTIVE | 2.36% | 2.36% | 2.36% | 2.36% | 2.36% | 2.36% |
| DIRECT ADMINISTRATION to PRODUCTIVE | 13.78% | 13.14% | 12.75% | 12.47% | 11.80% | 9.64% |
| OTHER COST to TOTAL DIRECT LABOR | 0.80% | 0.80% | 0.80% | 0.80% | 0.80% | 0.80% |
| BENEFITS TO TOTAL DIRECT LABOR | 20.27% | 20.27% | 20.27% | 20.27% | 20.27% | 20.27% |

000240

| Work Center/ Cost Group | Date Updated |
|---|---|
| AFIG | 05-Nov-99 |
| I&M POTS | 05-Nov-99 |
| SSIM | 05-Nov-99 |
| OSPC | 05-Nov-99 |
| OPAC | 05-Nov-99 |
| CRT | 05-Nov-99 |
| COIM-CIR&FAC | 05-Nov-99 |
| COIM-SW EQ | 05-Nov-99 |
| RCMAG | 05-Nov-99 |
| TRANSLATIONS | 05-Nov-99 |
| SOFTWARE | 05-Nov-99 |
| TCG | 05-Nov-99 |
| NRC | 05-Nov-99 |
| PAR | 05-Nov-99 |
| CPG | 05-Nov-99 |
| ACAC | 05-Nov-99 |
| EBAC | 05-Nov-99 |
| BRC | 05-Nov-99 |
| RRC | 05-Nov-99 |
| WMC | 05-Nov-99 |
| NBF | 05-Nov-99 |
| RNOC | 05-Nov-99 |
| CIA | 05-Nov-99 |
| SAC | 05-Nov-99 |
| FG10 | 05-Nov-99 |
| FG20 | 05-Nov-99 |
| PICS | 05-Nov-99 |
| FG30 | 05-Nov-99 |
| ICSC LCSC | 05-Nov-99 |
| TOLL & ASSIST - COMBINED | 05-Nov-99 |
| DIR ASSIST - COMBINED | 05-Nov-99 |
| CUST BILL | 05-Nov-99 |
| COLL REP | 05-Nov-99 |
| CUST SVC | 05-Nov-99 |
| SALES - CUST SVC REL | 05-Nov-99 |
| COMP CLER | 05-Nov-99 |
| NTWK SVC CLER | 05-Nov-99 |
| CRSG | 05-Nov-99 |

# TENNESSEE
# APPENDIX B

Network Terminating Wire Supporting Files

| | |
|---|---|
| Subscriber Line Testing | tslt.xls |
| Network Terminating Wire | tnuntw.xls |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | | | SUBSCRIBER LINE TESTING | | | 12/02/1999 |
| 2 | | | | 1999 - 2000 | | | |
| 3 | | | | (MONTHLY COSTS) | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | TENNESSEE |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 1. 1998 EXPENSE - ACCOUNT 6533.1000 (REGULATED) | | | | CSS DATA | | 06,608,393 |
| 10 | | | | | | | |
| 11 | 2. 1998 AVERAGE ACCESS LINES | | | | FINANCE | | 02,672,331 |
| 12 | | | | | | | |
| 13 | 3. DIRECTLY ASSIGNED COSTS PER LOOP | | | | (LINE1/LINE2)/12 MONTHS | | 0.2061 |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |

000243

**Network Terminating Wire (UNTW)**
**Total Monthly Cost Per Access Line - NTW**

| Description | Source | YE98 | YE97 | YE96 |
|---|---|---|---|---|
| Number of Access Lines (Tennessee) | | | | |
| Residence | CRIS Report EOY98 | 1,898,509 | | |
| Business/Other | CRIS Report EOY98 | 732,400 | | |
| Total Access Lines | =SUM(C9:C10) | 2,630,909 | | |
| | | | | |
| NTW Annual Expenses (Tennessee) Acct. 6362.9900 - M | Cost Matters - MR | $ 4,053,121 | $ 4,006,644 | $ 3,473,437 |
| NTW Annual Expenses (Tennessee) Acct. 6362.9900 - E | Cost Matters - MR | $ 5,392,430 | $ 5,104,083 | $ 4,659,594 |
| NTW Annual Expenses (Tennessee) Acct. 6362.9900 - Y | Cost Matters - MR | $ 140,977 | $ 278,163 | $ 141,938 |
| | | | | |
| Average NTW Annual Expenses - M | Cost Matters - MR | $ 3,844,401 | | |
| Average NTW Annual Expenses - E | Cost Matters - MR | $ 5,052,036 | | |
| Average NTW Annual Expenses - Y | Cost Matters - MR | $ 187,026 | | |
| | | | | |
| NTW Annual Amount Per Access Line - M | =C18/$C$11 | $ 1.46 | | |
| NTW Annual Amount Per Access Line - E | =C19/$C$11 | $ 1.92 | | |
| NTW Annual Amount Per Access Line - Y | =C20/$C$11 | $ 0.07 | | |
| | | | | |
| Life of Network Terminating Wire (Surr.Acct 2426) -Months | Cost Matters | 240 | | |
| | | | | |
| NTW Monthly Cost Per Access Line - M | =C22/12 | $ 0.1218 | | |
| NTW Monthly Cost Per Access Line - E | =C23/C26 | $ 0.0080 | | |
| NTW Monthly Cost Per Access Line - Y | =C24/C26 | $ 0.0003 | | |
| **Total Monthly Cost Per Access Line - NTW** | **=SUM(C28:C30)** | **$ 0.1301** | | |

Unbundled Riser Cable (USL-R)

| | |
|---|---|
| · Recurring, per month, per 2-wire pair | $2.06 |
| · Nonrecurring | |
| First | $390.17 |
| Additional, each | $393.28 |

Unbundled Network Terminating Wire (UNTW)

| | |
|---|---|
| · Recurring, UNTW Pair, per pair, per month | $2.00 |
| · Nonrecurring | |
| Site Visit Survey, per MDU/MTU Complex | $216.84 |
| Site Visit Set-up-Terminal Preparation, per terminal | |
| -First terminal | $ 95.77 |
| -Additional, each additional terminal | $ 63.06 |
| Access Terminal Provisioning & 1st 25 pair panel. | |
| -First terminal | $109.22 |
| -Additional, each additional terminal | 108.11 |
| Existing Access Terminal Provisioning | |
| -First terminal | $ 34.31 |
| -Additional | 33.19 |
| UNTW Pair Provisioning, per pair | |
| -First | $ 8.85 |
| -Additional | 7.73 |
| Service Visit for Provisioning, per request, Per MDU/MTU Complex | $ 53.73 |
| Manual Service Order, NRC | $ 40.20 |

# "RISER" Cable - Cost Study Request - Tennessee

Project Scope: By request of Eno Landry (PCU) on October 15th, an urgent need exists for riser cable costs for Tennessee in association with arbitration with NEXTLINK. The urgency of this request emanated from a meeting between Legal, PCU, and Interconnect on Tuesday, October 13th. Cost Matters was not represented at this meeting and received the request verbally through the PCU. Further discussion with Bennett Ross, Leon Armstrong, and Margaret Thompson indicated that we were required to file a price (best and final offer) with the TRA for riser cable. A true-up period would be allowed once an order was received.

Project Method: Cost Matters is involved to develop an estimate of recurring and non-recurring cost for riser cable. Riser cable is also defined as Intra-building cable in Accounts 52C (Copper) and 852C (Fiber).

**Recurring Cost - Riser** - Twenty-one of 244 business loop in the 1995 Loop Sample reflected loops with 52C or 852C investment. These loops were separately identified, the Intra-building Cable investment extracted, the x-connect point (or 12C x-box-distribution portion) extracted, and the results were run through the TELRIC Calculator® to derive recurring cost. The cost reflects only those loops with Intra-building investment and is not an average over all loops. As information, the average length of Intra-building cable is 388 feet.

The results are as follows:

| | |
|---|---|
| 52C/852C Cost | $ .7396 |
| 12C Distribution X-box | $ 1.3202 |
| **Cost per pair (per DS0) = $2.0588** | |

The latest filed Sub-Loop Distribution cost for a 2-Wire Analog Voice Grade loop is $10.74. In relation to sub-loop distribution, the riser cable is 19% of the total. **This should not be interpreted to mean that 19% of distribution cost is associated with Riser Cable.** Rather, the $2.0588 represents the cost of the riser section only for those loops with riser cable (21 loops of 244 in the sample). The $10.74 cost represents the cost of all loops with distribution cable; and, therefore, the riser cost represented in the $10.74 is divided by all loops with distribution cable not just those loops with riser cable.

**Nonrecurring Cost - Riser** - Per discussion with Eno Landry, the best estimate of the work efforts associated with provisioning riser cable is reflected in the costs filed for sub-loop distribution. These costs may be increased in a true-up through identification of additional access terminals, labor to x-connect to an access terminal, and any site survey or site-setup labor. The costs filed on 12/97 are as follows:

TN 2W Sub Loop Distribution

| | |
|---|---|
| Nonrecurring - First | $390.17 |
| Nonrecurring - Additional | $293.26 |

## "RISER" Cable - Cost Study Request - Tennessee - continued

**Network Terminating Wire Cost** - Although not filed in December of 1997, Cost Matters provided the Product Team with the cost of Network Terminating Wire for negotiating purposes. There are no recurring costs associated with Network Terminating Wire as the material is expensed; however, Interconnect is recommending a $2 recurring rate. The UNTW costs for Tennessee are as follows (all nonrecurring):

| | |
|---|---|
| Site Visit-Survey, per MDU/MTU Complex | $216.84 |
| Site Visit-Setup, per terminal (first) | $ 95.77 |
| Additional | $ 63.06 |
| Access Terminal Provisioning & 1st 25 pair panel | |
| First | $109.22 |
| Additional | $108.11 |
| Existing Access Terminal Provisioning | |
| First | $ 34.31 |
| Additional | $ 33.19 |
| UNTW Pair Provisioning, per pair (First) | $ 8.85 |
| Additional | $ 7.73 |
| Service Visit, per request, per MDU/MTU Complex | |
| Per Premises | $ 53.73 |
| Manual Service Order Charge | $ 40.20 |

Assumptions / Discussion:

- The CLEC will be entering the building with their own cable and terminating onto their own x-connect terminal. Their x-connect point will be "bridged" to the BellSouth x-connect point (i.e. 12C x-box).
- The 52C/852C investment does NOT include network terminating wire (NTW). The CLEC may wish to access NTW as well as Intra-building Cable.
- 1997 Cost Factors / UNE Environment are reflected in this cost estimate and should therefore match those used in the most recent (12/97) Tennessee filing.
- Cost for site preparation, access terminals, and connecting wires and labor for access terminals are not included.
- According to Tom Larsen, not all building cable is accessible as riser cable. The specific applications and availability will be determined on a case-by-case basis.

Contacts: Bennett Ross, Margaret Thompson, Leon Armstrong, Michael Zitzman, Tom Larsen, Eno Landry

Arlene Fredrickson 10/16/98

REQUEST: Please provide all documents and data relating to BellSouth's manual "Loop Make-Up Service Inquiry" process (LMUSI), including a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for the LMUSI. Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: Attached are the documents related to BellSouth's Manual Loop Make-up service process.

The attachments are:

1. Unbundled Loop Modifications – CLEC Information Package March 10, 2000
2. UDL-2W/ADSL,UDL-2W/HDSL, UDL-4W/HDSL OR UCL
3. BellSouth Loop Make-up
4. Service Inquiry Loop Make-up Service Inquiry form
5. CLEC Package Unbundled ADSL/HDSL Capable Loops
6. CLEC Package Unbundled Copper Loop

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for
Production of Documents
May 3, 2000
Item No. 7 Attachment

# Unbundled Loop Modifications

## CLEC
## Information Package
## March 10, 2000

# Table of Contents

**PRODUCT NAME** ..... 3

**PRODUCT CATEGORY** ..... 3

**PRODUCT AND TECHNICAL DESCRIPTION** ..... 3

SERVICE DESCRIPTION ..... 3
*USOC* ..... 3
FEATURES AND BENEFITS ..... 4

**PRE-ORDERING CHECKLIST** ..... 4

AVAILABILITY ..... 4
BILLING INFORMATION ..... 4

**ORDERING INFORMATION** ..... 4

ORDERING PROCESS DESCRIPTION ..... 4
INTERVALS ..... 4
CONTRACT SPECIFIC PROVISIONS ..... 4
REQUIRED/VALID FORMS ..... 5

**SERVICE INQUIRY (SI) PROCESS** ..... 6

**UNBUNDLED LOOP MODIFICATION MATRIX** ..... 7

USOCS FOR ORDERING REMOVAL OF BRIDGED TAP OR LOAD COILS OR BOTH ON LOOPS LESS THAN OR EQUAL TO 18 KILO-FEET ..... 7
USOCS FOR ORDERING REMOVAL OF BRIDGED TAP OR LOAD COILS OR BOTH ON LOOPS GREATER THAN 18 KILO-FEET ..... 7

**PRICING** ..... 7

**MAINTENANCE AND REPAIR PROCESS** ..... 7

**SAMPLE SERVICE INQUIRY FORMS** ..... 7

## Product Name

Unbundled Loop Modifications

## Product Category

Singular Unbundled Network Elements

## Product and Technical Description

### Service Description

BellSouth Interconnection Services will offer ***Unbundled Loop Modifications (ULM)*** to its CLEC customers in a manner that is consistent with the requirements of the FCC's Third Report and Order (99-238). This means that BellSouth will condition loops, at the CLEC's request, by removing equipment that has been placed on copper loops (i.e., load coils, low-pass filters, range extenders, etc.) and/or by removing bridged taps that have been attached to the cooper loop. ULM can be requested using the following non-recurring rate elements:

| USOC | Rate Element |
|---|---|
| • ULM2L | Load Coil Removal on 2-Wire loops less than or equal to18 Kilo-feet |
| • ULM2G | Load Coil Removal on 2 Wire loops greater than 18 Kilo-feet |
| • ULM4L | Load Coil Removal on 4 Wire loops less than or equal to18 Kilo-feet |
| • ULM4G | Load Coil Removal on 4 Wire loops greater than 18 Kilo-feet |
| • ULMBT | Bridged Tap Removal on All loops |
| • ULMMO | Manual Order |

### Features and Benefits

The CLEC may use BST's Unbundled Loop Modification (ULM) offerings to remove bridge tap and/or load coils from any copper loop within the BST network for the purposes of providing advanced data services.

It is anticipated that the CLEC will first obtain Loop Make Up (LMU) information through the Service Inquiry (SI) process, then, if desired, issue an LSR and additional SI which directs BellSouth to perform its requested modifications. The CLEC may also request modifications to a loop that is already installed.

BellSouth will, at the request of a CLEC, perform high-bandwidth testing of a circuit ordered with ULM.

## Pre-Ordering Checklist

### Availability

BST will offer this product in all states and in all end offices where facilities are available.

### Billing Information

ULM will be billed from CABS.

## Ordering Information

### Ordering Process Description

It is expected that the CLEC will first request Loop Make-Up (LMU) information. Until there is a mechanized loop qualification system available, the CLEC must use the LMU process to obtain the loop make-up information. The LMU will indicate the parameters of a specific loop facility. Once the CLEC obtains the LMU, the CLEC will issue a Service Inquiry (SI) through its BellSouth Account Team/Complex Resale Services Group (CRSG) Representative. On this SI, the CLEC must indicate the type of loop requested and whether the CLEC desires Unbundled Loop Modification (ULM). The CLEC will also specify the exact modification that BellSouth is to perform. The CLEC will also submit a Local Service Request (LSR) form with the SI. Once the requirements of the SI have been completed, the Local Carrier Service Center (LCSC) will issue a service order to provision the requested service.

### Intervals

The Standard Interval for return of Loop Makeup Service Inquiry is seven business days. Intervals for all Unbundled Loop Modifications will be negotiated.

## Contract Specific Provisions

Before loop modifications can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for the modifications being requested. This agreement must be in effect for all states where the CLEC plans to order these modified loops.

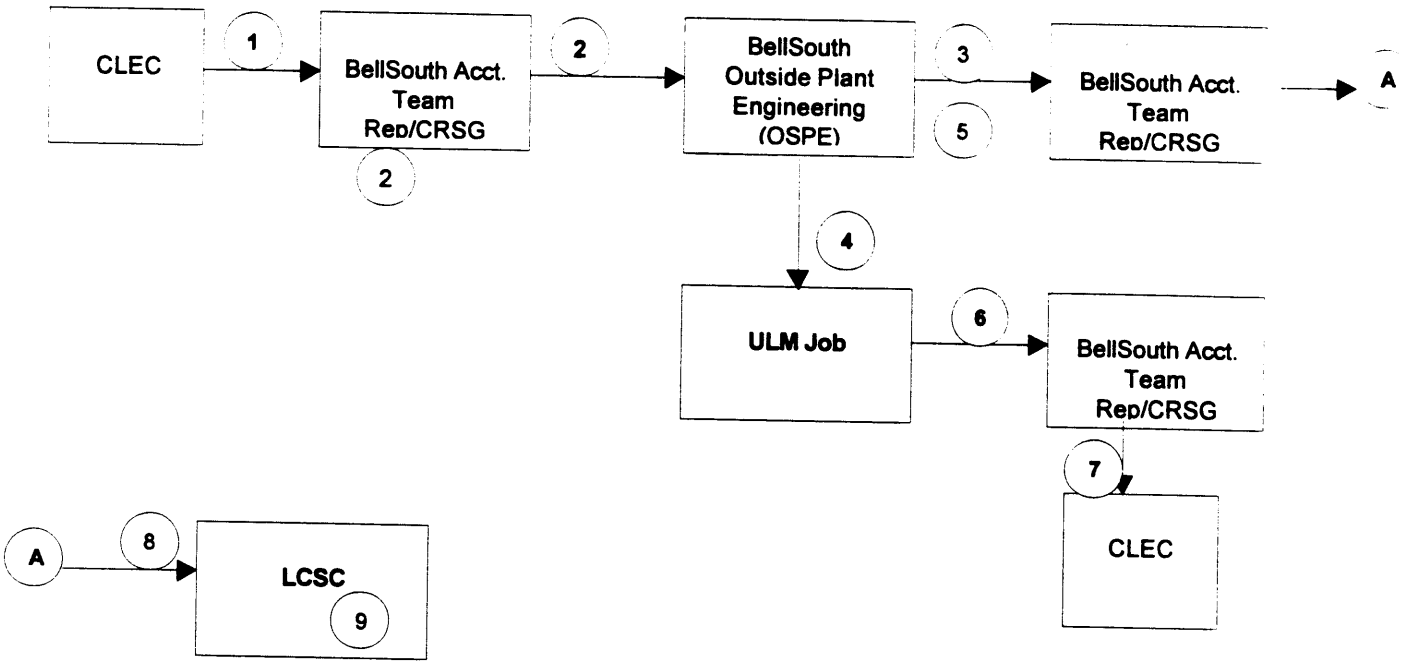
The information contained herein applies to the ULM general offering and is part the standard BellSouth agreement. The general offering is in accordance with BellSouth policies, procedures and regulatory obligations as well as the Standard Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the contract.

## Required/Valid Forms

- Service Inquiry Form (SI)
- Local Service Request Form (LSR)
- End User Form (EU), Loop Service Form (LS)
- Loop Service with Number Portability Form (LSNP)
- Directory Listings Form (DL)

## Service Inquiry (SI) Process




1. CLEC sends a firm SI and an LSR to Account Team Representative/CRSG
2. Acct. Team Representative/CRSG holds LSR and sends the SI to Outside Plant Engineer (OSPE)
3. If loop is available, OSPE completes SI with Facility Reservation Number (FRN) and forwards SI to Acct. Team/CRSG or;
4. If requested on the SI, an engineering job is issued for the CLEC requested **Unbundled Loop Modification** (ULM). (The CLEC will indicate which ULM elements it requires on the SI. It is expected that the CLEC would have ordered **Loop Make-Up** prior to initiating an UCL SI)
5. OSPE forwards SI with ULM estimated completion date (ECD) to Account Team Representative/CRSG.
6. When ULM is complete, OSPE sends the SI with complete date to Account Team Representative/CRSG.
7. Account Team Representative/CRSG notifies CLEC of ULM completion
8. Sends SI and LSR to LCSC.
9. LCSC issues order to provision the requested UCL loop.

## Unbundled Loop Modification Matrix

### USOCs for Ordering Removal of Bridged Tap or Load Coils or Both on loops less than or equal to 18 kilo-feet

| 2 Wire or 4 Wire | Remove Load Coil USOC | Remove Bridge Tap USOC |
|---|---|---|
| 2 Wire | ULM2L | ULMBT |
| 4 Wire | ULM4L | ULMBT |

### USOCs for Ordering Removal of Bridged Tap or Load Coils or Both on loops greater than 18 kilo-feet

| 2 Wire or 4 Wire | Remove Load Coil USOC | Remove Bridge Tap USOC |
|---|---|---|
| 2 Wire | ULM2G | ULMBT |
| 4 Wire | ULM4G | ULMBT |

## Pricing

Non-recurring charges:

- ULM-BT
- ULM-LC/S
- ULM-LC/L (
- ULM-MO (manual order)

## Maintenance and Repair Process

Trouble tickets will not be issued for the ULM product but rather on the loop itself. BST will only provide electrical continuity and balance relative to tip and ring on circuits that have been modified beyond the required characteristics for that loop type.

## Sample Service Inquiry Forms

Service Inquiry Forms follow for Unbundled Loop Modifications and for Loop Makeup.

# BellSouth Loop Make up

## Service Description

BellSouth Interconnection Services will offer ***Loop Makeup Service (LMU)*** to its CLEC customers in a manner that is consistent with the requirements of the FCC's Third Report and Order (99-238). This means that BellSouth will provide a description of the loop type or types serving a specific address or telephone number.

It is anticipated that LMU will be ordered most often by CLECs for use in determining whether or not modifications will be needed in order for the CLEC to provide advanced data services, although this is not required when ordering BellSouth Loop Makeup.

## Features and Benefits

The CLEC may use BST's Loop Makeup Service to determine the makeup of the loop or loop types serving a specific address or telephone number.

Loop Makeup will provide the following information:

- Portions of the loop which are served by Digital Loop Carrier (if applicable)
- Presence and location of Load Coils.
- Presence, location, and length of Bridged Taps.

The response to a Loop Makeup request will consist of either one or two descriptions:

- Requests submitted based on telephone numbers will provide the loop make-up of the loop currently serving that telephone number
- Requests submitted based on a specific address served by both copper facilities and digital loop carrier will contain the loop make-up information for the best available copper loop and the best available loop served by a DLC.
- Requests submitted based on a specific address that is serviced by only one type of loop will provide the loop make-up information for the best available loop at that address..

## Performance Standards

The interval for the Loop Makeup response is seven business days.

## Ordering Process

It is anticipated that the requesting CLEC will submit a Service Inquiry for Loop Makeup to the Complex Resale Support Group (CRSG). The return of this Service Inquiry will be a Loop Makeup, and the CLEC will be charged a one-time non-recurring charge for this service.

On the Service Inquiry, the CLEC should outline the following information:

- The Service Address for which the Loop Makeup is desired
- If applicable, the telephone number for which the Loop Makeup is desired
- CLEC name and contact information as indicated on the Service Inquiry Form

For more information regarding this product, please contact your account team representative

**General Information:**

## UDL-2W/ADSL, UDL-2W/HDSL, UDL-4W/HDSL or UCL Service Inquiry

SI # (PON Num.)_____ Firm Order _____ Change ____ Cancel _____

Order # _____ Negotiator _____

Negotiator Telephone Number _____

CRSG EMAIL ADDRESS: (CRSG UNE/m5,mail5a)

**Customer Information:**

CLEC Name _____ Customer Contact/Telephone number _____

Service Address _____ Local Serving Central Office _____

_____ Number of lines requested _____

_____ Due Date/Requested Service Date _____

(To be filled out by Account team/CRSG should SC job be required)

Does the CLEC agree to SC quote billing? _____YES (OSPE will prepare SC quote) _____NO (OSPE will take no further action)

Date CLEC contacted about SC quote billing:_____

Actual Completion Date of OSPE EWO: _____(OSPE to fill out and return to CRSG when EWO completes for options 3 & 4.)

**CLEC Loop Request: (CLEC requests the following loops to the above address with the indicated Loop Modifications:**

_____Check here if this is a conversion of existing service. Existing Telephone Number: _____

| | Provide this loop | Provide ULM-LC | Provide ULM-BT |
|---|---|---|---|
| UDL-2W/ADSL | | | |
| UDL-2W/HDSL | | | |
| UDL-4W/HDSL | | | |
| UCL/S-2W | | | |
| UCL/S-4W | | | |
| UCL/L-2W | | | |
| UCL/L-4W | | | |

**Outside Plant Engineering Facility Reservation Pass: One of the following five selections must be filled out:**

1. _____ **YES** OSP Facilities are Available/reserved for 10 days FRN:_____
   Cable and Pair(s) _____
2. _____NO CANNOT PROVIDE, **Check here if facilities are out of design range or in an area where copper pairs are not available and cannot be provided.**
3. _____**NOT Available but can be provided with a job, no special construction.** Job Number: _____
   What is the expected completion date (ECD): _____
4. _____**NOT Available but can be provided with a job, special construction is applicable.**[1]
5. _____Facilities are not immediately available, will supply by one of the following: _____CDP ____LST
   (List facilities involved in Comments section.)

[1]Provide a description of the work required in the "Comments" section. The CLEC can use this information to determine if they want supplied on the job quote.

**Comments** (describe work required on job, exceptions, etc.)

_____

_____

_____

Prepared by (Facility Engineer) _____ Telephone Number _____

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 02-29-00

**General Information:**

# LOOP MODIFICATIONS TO EXISTING
## UDL-2W/ADSL, UDL-2W/HDSL, UDL-4W/HDSL or UCL Service Inquiry

SI # (PON Num.)_____ Firm Order _____ Change ____ Cancel _____

Order # _____ Negotiator _____

Negotiator Telephone Number _____

CRSG EMAIL ADDRESS: (CRSG UNE/m5,mail5a)

**Customer Information:**

CLEC Name _____ Customer Contact/Telephone number _____

CKID: _____ Local Serving Central Office _____

(CLEC to provide circuit id for loop to be modified.)

Actual Completion Date of OSPE EWO: _____

**CLEC Loop Request: (CLEC requests the following loops to the above address with the indicated Loop Modifications:**

| | Modify this loop | Provide ULM-BT |
|---|---|---|
| UDL-2W/ADSL | _____ | _____ |
| UDL-2W/HDSL | _____ | _____ |
| UDL-4W/HDSL | _____ | _____ |
| UCL/S-2W | _____ | _____ |
| UCL/S-4W | _____ | _____ |
| UCL/L-2W | _____ | _____ |
| UCL/L-4W | _____ | _____ |

CLEC must supply specific instructions on how to modify loop:

_____

_____

_____

_____

_____

_____

**Outside Plant Engineering Response:**

Job Number: _____

What is the expected completion date (ECD): _____

**Comments:**

_____

_____

_____

Prepared by (Facility Engineer) _____ Telephone Number _____

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 02-29-00

General Information:

# Loop Makeup Service Inquiry

SI # (PON Num.)_____ Negotiator

_____

Negotiator Telephone Number _____

CRSG EMAIL ADDRESS: (CRSG UNE/m5,mail5a)

**Customer Information:**

(CLEC to indicate which loop makeup type required, by telephone number or by address)

_____Provide LMU at Telephone Number _____(Use this option for Line Sharing)

_____Provide LMU at address listed below.

Service Address _____ CLEC Name

_____

_____ CLEC Contact/Telephone number

_____

_____ CLEC BAN

_____

Local Serving Central Office CLLI _____

LFACS Wirecenter _____

**Outside Plant Engineering Makeup Data:**

This is a loop makeup for facilities at the above address or telephone number. No facility reservations have been made.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

**Comments**

_____

_____

_____

Prepared by (Facility Engineer) _____ Telephone Number _____

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 03-10-00

"The information contained herein is based upon BellSouth's records. This is the same information that BellSouth uses to determine loop compatibility for its own services. BellSouth cannot and does not warrant that the information contained herein is accurate in every case."

**General Information:**

# Loop Make-Up Service Inquiry

SI # (PON Num.)_____ Negotiator _____

Negotiator Telephone Number _____

CRSG EMAIL ADDRESS: (CRSG UNE/m5,mail5a)

**Customer Information:**

(CLEC to indicate which loop makeup type required, by telephone number or by address)

_____Provide LMU at Telephone Number _____(Use this option for Line Sharing)

_____Provide LMU at address listed below.

Service Address _____ CLEC Name _____

_____ CLEC Contact/Telephone number

_____

_____ CLEC BAN _____

Local Serving Central Office CLLI _____

LFACS WireCenter _____

**Outside Plant Engineering Makeup Data:**

This is a loop makeup for facilities at the above address and or telephone number. No facility reservations have been made.

Loop makeup of a copper type loop

26NL – 10 kft (First section of cable non loaded 26 guage)

BT; 26NL – 2 KFT (Presense of BT at the end of the previous section, 26 gauge non-loaded 2 kft.)

X (Location of first cross box)

26NL – 2 kft. (next section of cable non-loaded 26 guage 2.0 kft.)

(This example shows a 14 kft. loop of all 26 guage cable with one BT located at 10 kft. Of length 2.0 kft.)

**Comments**

Prepared by (Facility Engineer) _____ Telephone Number _____

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 03-10-00

"The information contained herein is based upon BellSouth's records. This is the same information that BellSouth uses to determine loop compatibility for its own services. BellSouth cannot and does not warrant that the information contained herein is accurate in every case."

BELLSOUTH

# BellSouth Unbundled ADSL/HDSL Capable Loops

## *Unbundled Asymmetrical Digital Subscriber Line (ADSL) Capable Loop*

## *and*

## *Unbundled High-Bit-Rate Digital Subscriber Line (HDSL) Capable Loop*

## *CLEC Information Package*

# BellSouth Unbundled ADSL/HDSL Capable Loops

## Table of Contents

SERVICE DESCRIPTION ..... 4

SERVICE CAPABILITIES ..... 4

TECHNICAL REQUIREMENTS ..... 4

ADSL CAPABLE LOOP ..... 5
HDSL CAPABLE LOOP ..... 5

NETWORK CONFIGURATION ..... 5

ORDERING & PROVISIONING ..... 7

CONTRACT SPECIFIC PROVISIONS ..... 7

RATE ELEMENTS & USOCS ..... 8

SERVICE INQUIRY (SI) PROCESS ..... 9

SERVICE ORDER REQUIREMENTS ..... 10

MAINTENANCE & REPAIR PROCEDURES ..... 11

SI FORM ..... 12

## BellSouth Unbundled ADSL/HDSL Capable Loops

****DISCLAIMER****

The information contained in this document is subject to change. Please contact your BellSouth Account Manager if you have any questions about the information contained herein. BellSouth will notify you of the changes made to the document.

# BellSouth Unbundled ADSL/HDSL Capable Loops

## Service Description

The Unbundled ADSL/HDSL capable loop is a dedicated digital transmission facility from BellSouth's Main Distribution Frame (MDF) to an end-user's premises. These loops will allow the end user to send and receive traffic that utilize the Enhanced Electronic (EE) capabilities for HDSL or ADSL when the loop is connected to the CLEC's appropriate packet/circuit switch. The loop facility will include a Network Interface Device (NID) at the end-user's location for the purpose of connecting the loop to the customer's inside wire.

BellSouth offers the following:

2 Wire ADSL capable loop
2 Wire HDSL capable loop
4 Wire HDSL capable loop

## Service Capabilities

BellSouth will only provide the loop facilities with these offerings. BellSouth does not provide the Enhanced Electronics such as the Digital Subscriber Line Access Multiplexer (DLSAM) or any other electronics with the unbundled ADSL or HDSL capable loops.

The ADSL/HDSL capable loops will be designed circuits and are provisioned with test points. BellSouth will provide a Design Layout Record (DLR).

BellSouth will perform installation testing (other than switch-based) that is needed to ensure the loop meets the specifications of BellSouth's TR73600.

BellSouth will perform order coordination (OC) activities associated with Number Portability and/or disconnect orders. OC is intended to convert an existing customer to a new local service provider using the ADSL/HDSL capable loops in a manner that minimizes the end-user's dial-tone interruption. BellSouth will perform the OC activities, at is discretion, on the due date. BellSouth will notify the CLEC of the appropriate conversion time and will then perform the work within the negotiated interval.

If the CLEC requests work after normal working hours, overtime rates will apply for work outside of 8:00 a.m. to 5:00 p.m. local time.

If the CLEC's end user has existing service with BellSouth that utilizes a digital quality loop, and wants to change local service providers, BellSouth will attempt to reuse the end user's existing loop.

## Technical Requirements

## BellSouth Unbundled ADSL/HDSL Capable Loops

### *ADSL capable loop*

The ADSL capable loop is a two wire metallic facility only. If the loop is available, it will be provided with no Digital Loop Carrier (DLC), load coils or repeaters. These loops will conform to the Revised Resistance Design (RRD) guidelines as described in Committee T1 Technical Report No. 28. The loop facility will consist of a loop 18kft or less which may include 6kft of bridge tap with a resistance of 1300 ohms or less.

Where the loop facility does not meet ADSL capable loop specifications, the CLEC may request that BellSouth modify the loop. In these situations and as a chargeable option, BellSouth will use the Unbundled Loop Modification (ULM) process to modify the loop facility to ADSL capable loop specifications. Additionally, the ULM product can be utilized to remove any bridged tap sections as requested by the CLEC. The rates for ULM are in addition to the ADSL loop rate. **(Link to ULM product package**)

BellSouth does not guarantee a particular bit rate associated with these loops. The transmission and bit rate speed of ADSL type services is dependent on the CLEC's equipment.

ADSL capable loops will meet the parameters specified in **Technical Reference (TR) 73600** ***(llink to this document)***.

### *HDSL capable loop*

High-bit rate Digital Subscriber Line (HDSL) is a transport technology that can either be 2 or 4 Wire circuits. The HDSL capable loop can be ordered as a 2 Wire or 4 Wire HDSL capable loop. The loop facility consists of only metallic facilities and will be provisioned according to CSA guidelines as described in Committee T1 Technical Report No. 28. These loops are typically less than 9000 feet in length and include no more than 2500 feet of bridge tap/end section with a resistance of 850 ohms or less.

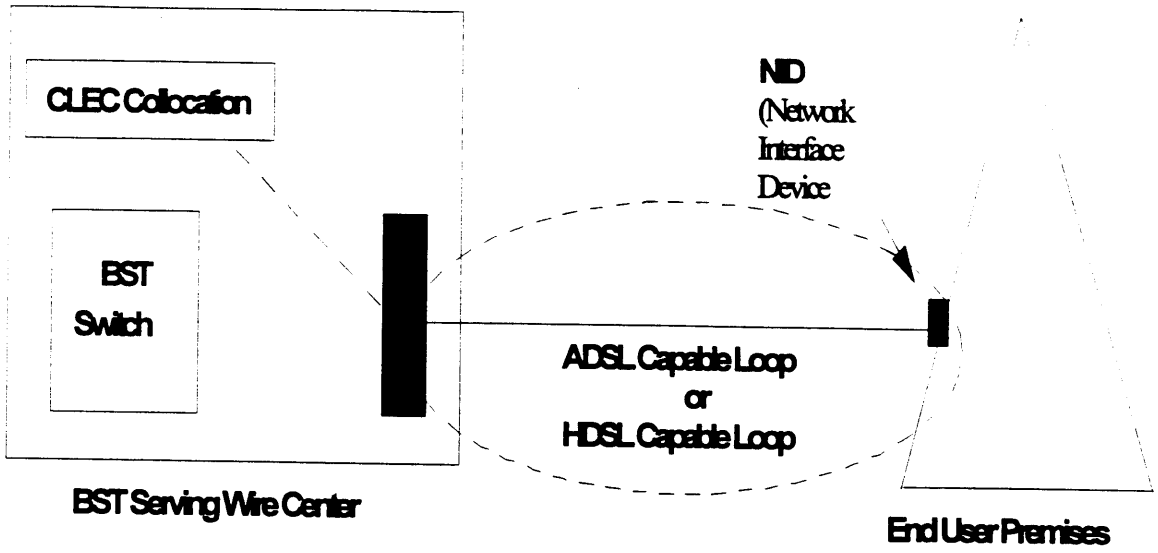
Where the loop facility does not meet HDSL capable loop specifications, the CLEC may request that BellSouth modify the loop. In these situations and as a chargeable option, BellSouth will use the ULM process to modify the loop facility to HDSL capable loop specifications. Additionally, the ULM product can be utilized to remove any bridged tap sections that are requested by the CLEC. The rates for ULM are in addition to the ADSL loop rate. **(Link to ULM product package**)

BellSouth does not guarantee a particular bit rate associated with these loops. The bit rate speed is dependent upon the CLEC's equipment.

HDSL capable loops will meet the parameters specified in **Technical Reference (TR) 73600** ***( link to this document)***.

## Network Configuration

## BellSouth Unbundled ADSL/HDSL Capable Loops



# BellSouth Unbundled ADSL/HDSL Capable Loops

## Ordering & Provisioning

It is the CLEC's responsibility to request loop make-up in order to determine if loop modification is required. Until there is a mechanized loop qualification system available, the CLEC must use the Loop Make-Up (LMU) **(link to LMU product package)** process to obtain the loop make-up information. The LMU will indicate the parameters of a specific loop facility

Once the CLEC obtains the LMU, the CLEC will issue a Service Inquiry (SI) through its BellSouth Account Team/Complex Resale Service Group (CRSG) Representative. On this SI, the CLEC must indicate type of loop requested and whether the CLEC desires Unbundled Loop Modification (ULM). **(link to the ULM product package)** The CLEC will also specify the exact modification that BellSouth is to perform. The CLEC will submit a Local Service Request (LSR) form with the SI. Once the requirements of the SI have been completed, the Local Carrier Service Center will issue a service order to provision the requested ADSL/HDSL capable loops.

## Intervals

Where facilities are available and after any ULM request and/or SI process has been completed, it is expected that BellSouth will provision these loops after the receipt of an accurate LSR and SI within the following targeted intervals:

| | |
|---|---|
| 1 – 5 Loops | 5-7 business days |
| 6 – 13 Loops | 10 business days |
| 14 + Loops | Handled on a project basis, interval to be negotiated |

## Contract Specific Provisions

Before any ADSL/HDSL capable loop can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for each loop type that is being requested. This agreement must be in effect for all states where the CLEC plans to order these unbundled loops.

The information contained herein applies to the ADSL/HDSL capable loop general offering and is part the standard BellSouth agreement. The general offering is in accordance with BellSouth policies, procedures and regulatory obligations as well as the Standard Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the specific CLEC Interconnection Agreement. Otherwise, the general offering provisions will apply.

# BellSouth Unbundled ADSL/HDSL Capable Loops

## Rate Elements & USOCs

| Rate Element | Recurring & Non-Recurring (NR)? | USOC |
|---|---|---|
| 2 Wire Unbundled ADSL capable loop | Yes | UAL2X |
| 2 Wire Unbundled HDSL capable loop | Yes | UHL2X |
| 4 Wire Unbundled HDSL capable loop | Yes | UHL4X |
| Order Coordination – Time Specific (per order) | NR only | OCOSL |

## Other Non-Recurring Charges

*Manual Service Order* -- applies if order is manually submitted and electronic ordering is available

*Order Cancellation* – applies if the CLEC cancels an order. This charge is for work associated with provisioning UCL pairs at the time the CLEC cancels an order.

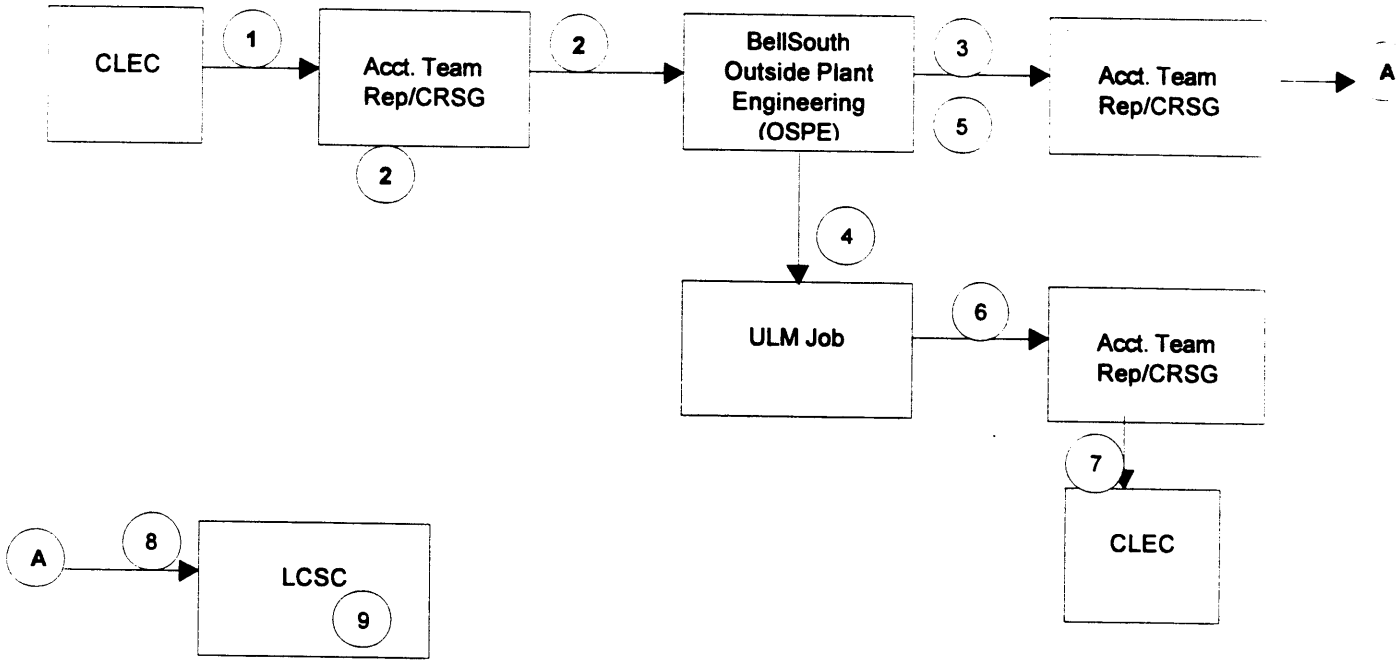
*Service Order Modification Charge* – Applies if the CLEC modifies a service order after the Firm Order Confirmation has been issued.

*Overtime Charge* – Applies for work requested outside of normal working hours.

*Time & Material* – Applies for dispatch out if "no trouble found"

# BellSouth Unbundled ADSL/HDSL Capable Loops

## Service Inquiry (SI) Process




1. CLEC sends a firm SI and an LSR to Account Team Representative/CRSG
2. Acct. Team Representative/CRSG holds LSR and sends the SI to Outside Plant Engineer (OSPE)
3. If loop is available, OSPE completes SI with Facility Reservation Number (FRN) and forwards SI to Acct. Team/CRSG or;
4. If requested on the SI, an engineering job is issued for the CLEC requested **Unbundled Loop Modification** (ULM). (The CLEC will indicate which ULM elements it requires on the SI. It is expected that the CLEC would have ordered **Loop Make-Up** prior to initiating an ADSL/HDSL SI)
5. OSPE forwards SI with ULM estimated completion date (ECD) to Account Team Representative/CRSG.
6. When ULM is complete, OSPE sends the SI with complete date to Account Team Representative/CRSG.
7. Account Team Representative/CRSG notifies CLEC of ULM completion
8. Sends SI and LSR to LCSC.
9. LCSC issues order to provision the requested ADSL/HDSL loop.

# BellSouth Unbundled ADSL/HDSL Capable Loops

## Service Order Requirements

The CLEC will complete a Local Service Request (LSR) form according to the Ordering and Billing Forum (OBF) ordering guidelines. The CLEC may also refer to the **"BellSouth Ordering Guide for CLECs"** ***(link to this document)*** for preparation of the LSR.

The following information that is unique to ADSL/HDSL is also required on the LSR:

| LSR Field | Information Required | | | |
|---|---|---|---|---|
| NC/NCI | **Loop Type** | **NC** | **NCI at CLEC** | **SEC NCI at End User** |
| | 2 Wire ADSL | LXR- | 02QB9.00A | 02DU9.00A |
| | 2 Wire HDSL | LXC- | 02QB9.00H | 02DU9.00H |
| | 4 Wire HDSL | LXC- | 04QB9.00H | 04DU9.00H |

# BellSouth Unbundled ADSL/HDSL Capable Loops

## Maintenance & Repair Procedures

The CLEC is responsible for testing and pre-screening any trouble conditions to make sure the trouble is with ADSL/HDSL capable loop pair before calling BellSouth. If the CLEC's testing isolates the repair problem to BellSouth's unbundled loop, the CLEC should notify the Unbundled Network Element (UNE) Center. The target interval for maintenance resolution is 24 hours from the time the trouble is reported to the UNE center.

The CLEC must provide the following information to UNE Center when reporting a repair problem:

- ADSL/HDSL pair Circuit ID
- Description of the trouble

If BellSouth dispatches a technician on a CLEC reported trouble call and no UCL trouble is found, BellSouth will charge the CLEC for time spent on the dispatch and for time spent testing the ADSL or HDSL capable loop.

## SI Form

**General Information:**

### UDL-2W/ADSL, UDL-2W/HDSL, UDL-4W/HDSL or UCL Service Inquiry

SI # (PON Num.)_____ Firm Order _____ Change ____ Cancel _____

Order # _____ Negotiator _____

Negotiator Telephone Number _____

CRSG EMAIL ADDRESS: (CRSG UNE/m5,mail5a)

**Customer Information:**

CLEC Name _____ Customer Contact/Telephone number _____

Service Address _____ Local Serving Central Office _____

_____ Number of lines requested _____

_____ Due Date/Requested Service Date _____

(To be filled out by Account team/CRSG should SC job be required)

Does the CLEC agree to SC quote billing? _____YES (OSPE will prepare SC quote) _____NO (OSPE will take no further action)

Date CLEC contacted about SC quote billing:_____

Actual Completion Date of OSPE EWO: _____(OSPE to fill out and return to CRSG when EWO completes for options 3 & 4.)

**CLEC Loop Request: (CLEC requests the following loops to the above address with the indicated Loop Modifications:**

_____Check here if this is a conversion of existing service. Existing Telephone Number: _____

| | Provide this loop | Provide ULM-LC | Provide ULM-BT |
|---|---|---|---|
| UDL-2W/ADSL | _____ | _____ | _____ |
| UDL-2W/HDSL | _____ | _____ | _____ |
| UDL-4W/HDSL | _____ | _____ | _____ |
| UCL/S-2W | _____ | _____ | _____ |
| UCL/S-4W | _____ | _____ | _____ |
| UCL/L-2W | _____ | _____ | _____ |
| UCL/L-4W | _____ | _____ | _____ |

**Outside Plant Engineering Facility Reservation Pass: One of the following five selections must be filled out:**

1. _____ **YES** OSP Facilities are Available/reserved for 10 days FRN:_____
   Cable and Pair(s) _____
2. _____**NO CANNOT PROVIDE**, Check here if facilities are out of design range or in an area where copper pairs are not available and cannot be provided.
3. _____**NOT Available but can be provided with a job, no special construction.** Job Number: _____
   What is the expected completion date (ECD): _____
4. _____**NOT Available but can be provided with a job, special construction is applicable.**[1]
5. _____Facilities are not immediately available, will supply by one of the following: _____CDP ____LST
   (List facilities involved in Comments section.)

[1]Provide a description of the work required in the "Comments" section. The CLEC can use this information to determine if they want supplied on the job quote.

**Comments** (describe work required on job, exceptions, etc.)

_____

_____

_____

Prepared by (Facility Engineer) _____ Telephone Number _____

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 02-29-00

# BellSouth Unbundled ADSL/HDSL Capable Loops

## SI Preparation

The CLEC provides information in the following sections of the SI:

**General Information**

SI# (PON Num)

Indicate if Firm Order, Change or Cancel

Negotiator Name (BellSouth Account Team Representative/CRSG)

Negotiator's Tel Number

**Customer Information**

CLEC Name,

Service Address (end user address)

Customer Contact/Telephone number (CLEC contact)

Local Serving Central Office (eight character CLLI for CO)

Number of Lines requested

Due Date/Requested Service Date

**CLEC Loop Request**

Check if a conversion

Existing Telephone Number/Circuit ID

Check each loop type requested or if more than one loop is requested, indicate number of loops Check ULM-LC if removal of load coils is requested

Check ULM-BT if removal of bridged tap is requested (BellSouth will remove BT(s) to meet UCL specifications)

**BellSouth Unbundled Copper Loop**

# *Unbundled Copper Loop*

# *CLEC*
# *Information Package*

# BellSouth Unbundled Copper Loop

## Table of Contents

SERVICE DESCRIPTION ..... 3
SERVICE CAPABILITIES ..... 3
TECHNICAL REQUIREMENTS ..... 4
NETWORK CONFIGURATION ..... 6
ORDERING & PROVISIONING ..... 7
INTERVALS ..... 7
CONTRACT SPECIFIC PROVISIONS ..... 7
RATE ELEMENTS & USOCS ..... 8
SERVICE INQUIRY (SI) PROCESS ..... 9
SERVICE ORDER REQUIREMENTS ..... 10
MAINTENANCE & REPAIR PROCEDURES ..... 11
SI FORM ..... 12
SI PREPARATION ..... 12

## BellSouth Unbundled Copper Loop

****DISCLAIMER****

The information contained in this document is subject to change. Please contact your BellSouth Account Manager if you have any questions about the information contained herein. BellSouth will notify you of the changes made to the document.

# BellSouth Unbundled Copper Loop

## Service Description

The Unbundled Copper Loop is a dedicated metallic transmission facility from BellSouth's Main Distribution Frame (MDF) to a customer's premises. This loop is commonly referred to as a "dry copper" loop because it does not have any intervening equipment such as load coils, repeaters, etc., between the end user premises and the Serving Wire Center (SWC). The Unbundled Copper Loop will be offered in two versions - UCL/S (Short) and the UCL/L (Long). The UCL/S is any Resistance Design (RD) copper loop that is less than or equal to 18 kilofeet (kft). The UCL/L will be any copper loop that is longer than 18kft.

These loops are not intended to support any particular service and may be utilized by the CLEC to provide a wide-range of telecommunications services so long as those services do not adversely effect BellSouth's network. This facility will include a Network Interface Device (NID) at the customer's location for the purpose of connecting the loop to the customer's inside wire.

## Service Capabilities

BellSouth will only provide the loop facilities with these offerings.

UCL loops will be designed circuits and are provisioned with test points. BellSouth will provide a Design Layout Record (DLR).

BellSouth will perform installation testing (other than switch-based) that is needed to ensure the loop meets the specifications of BellSouth's TR73600.

At the CLEC's option and for an additional charge, BellSouth will perform order coordination (OC) activities associated with Number Portability and/or disconnect orders. OC is intended to convert an existing customer to a new local service provider using the UCL in a manner that minimizes the end-user's dial-tone interruption. BellSouth will perform the OC activities, at is discretion, on the due date. BellSouth will notify the CLEC of the appropriate conversion time and will then perform the work within the negotiated interval.

If the CLEC requests work after normal working hours, overtime rates will apply for work outside of 8:00 a.m. to 5:00 p.m. local time

If the CLEC's end user has existing service with BellSouth that utilizes a compatible copper loop, and wants to change local service providers, BellSouth will attempt to reuse the end user's existing loop.

# BellSouth Unbundled Copper Loop

## Technical Requirements

The UCL/S will be a Resistance Design (RD) loop of 1300 ohms or less and will consist of non-loaded copper with a total length of 18 kft or less. In addition, up to 6 kft of bridged tap may be included on the loop facility.

The UCL/L is a loop of up to 2800 ohms and will consist of non-loaded copper with a total length greater than 18 kft. In addition, up to 12 kft of bridged tap may be included on the loop facility. All copper loops longer than 18kft within BellSouth's network typically will have load coils or other intervening equipment. Therefore, the CLEC may have to request Unbundled Loop Modification (ULM).

For a CLEC requested loop facility that does not meet UCL specifications, the CLEC may request that BellSouth modify the loop. In these situations and as a chargeable option, BellSouth will use the ULM process to modify the requested loop facility to UCL specifications. Additionally, the ULM product must be utilized to remove any bridged tap sections that are requested by the CLEC. The rates for ULM are in addition to the UCL rate. **(Link to ULM product package)**

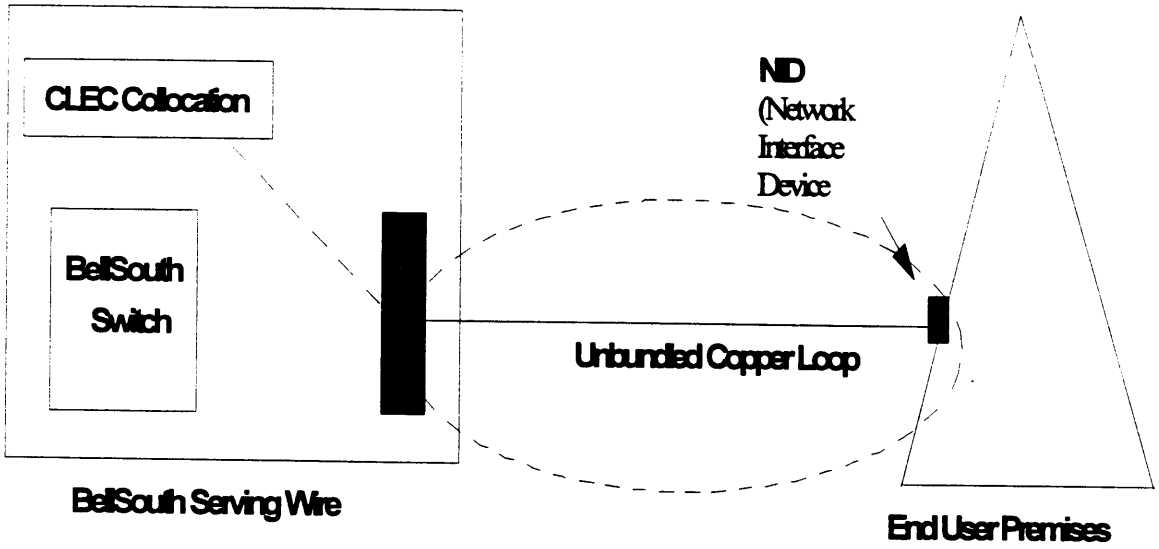
BellSouth will only ensure that the UCL has electrical continuity and provides balance relative to tip and ring.

These loops are not designed or intended to provide any particular service. The loop may be attached to a variety of equipment both at the CLEC's collocation space and the end user premises. BellSouth does not guarantee a particular bit rate associated with these loops.

UCL will meet the parameters specified in **Technical Reference (TR) 73600** ***(provide link to this document)***.

## BellSouth Unbundled Copper Loop

### Network Configuration



# BellSouth Unbundled Copper Loop

## Ordering & Provisioning

It is the CLEC's responsibility to request loop make-up in order to determine if loop modification is required. Until there is a mechanized loop qualification system available, the CLEC must use the Loop Make-Up (LMU) **link to LMU product package**) process to obtain the loop make-up information. The LMU will indicate the parameters of a specific loop facility

Once the CLEC obtains the LMU, the CLEC issues a Service Inquiry (SI) through their BellSouth Account Team/CRSG Representative (SI is attached). On this SI, the CLEC must indicate type of loop requested and whether the CLEC desires Unbundled Loop Modification (ULM). (**Link to ULM product package**) The CLEC will also specify the exact modification that BellSouth is to perform such as ULM to remove load coils (ULM-LC) and/or ULM to remove bridged tap (ULM-BT) on the SI. Additionally, the CLEC will submit a Local Service Request (LSR) form with the SI. Once the requirements of the SI have been completed, the Local Carrier Service Center will issue a service order to provision the requested ADSL/HDSL capable loops.

## Intervals

Where facilities are available and after any ULM request and/or the SI process has been completed, it is expected that BellSouth will provision these loops after the receipt of an accurate LSR and SI within the following targeted intervals:

| | |
|---|---|
| 1 – 5 Loops | 5-7 business days |
| 6 – 13 Loops | 10 business days |
| 14 + Loops | Handled on a project basis, interval to be negotiated |

## Contract Specific Provisions

Before UCL loops can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for each loop type that is being requested. This agreement must be in effect for all states where the CLEC plans to order these unbundled loops.

The information contained herein applies to the UCL loop general offering and is part the standard BellSouth agreement. The general offering is in accordance with BellSouth policies, procedures and regulatory obligations as well as the Standard Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the specific CLEC Interconnection Agreement. Otherwise, the general offering provisions will apply.

# BellSouth Unbundled Copper Loop

## Rate Elements & USOCs

| Rate Element | Recurring & Non-Recurring (NR)? | USOC |
|---|---|---|
| 2 Wire Unbundled Copper Loop, ≤ 18kft | Yes | UCLPB |
| 4 Wire Unbundled Copper Loop, ≤ 18kft | Yes | UCL4S |
| 2 Wire Unbundled Copper Loop, > 18kft | Yes | UCL2L |
| 4 Wire Unbundled Copper Loop, > 18kft | Yes | UCL4L |
| Order Coordination per loop | NR only | UCLMC |

## Other Non-Recurring Charges

*Manual Service Order* – applies if order is manually submitted and electronic ordering is available.

*Order Cancellation* – applies if the CLEC cancels an order. This charge is for work associated with provisioning UCL pairs at the time the CLEC cancels an order.

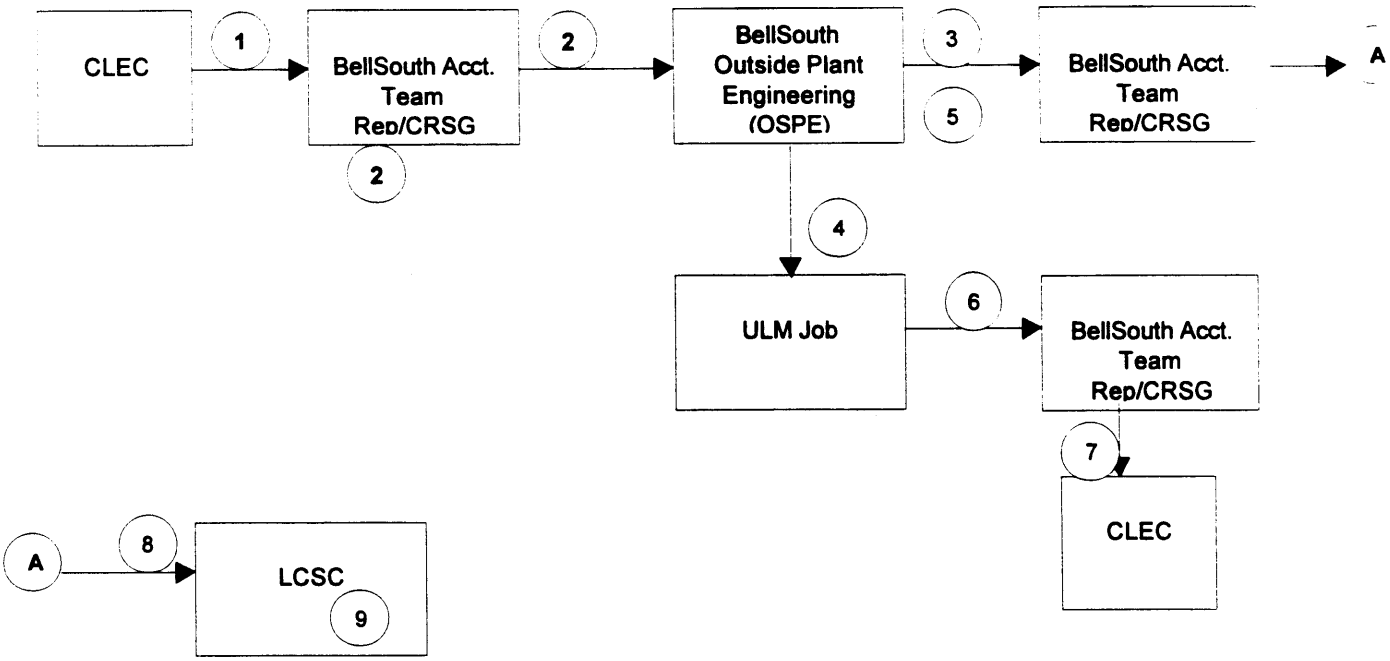
*Service Order Modification Charge* – applies if the CLEC modifies a service order after the Firm Order Confirmation has been issued.

*Overtime Charge* – applies for work requested outside of normal working hours.

*Time & Material* – applies for dispatch out if "no trouble found"

# BellSouth Unbundled Copper Loop

## Service Inquiry (SI) Process




1. CLEC sends a firm SI and an LSR to Account Team Representative/CRSG
2. Acct. Team Representative/CRSG holds LSR and sends the SI to Outside Plant Engineer (OSPE)
3. If loop is available, OSPE completes SI with Facility Reservation Number (FRN) and forwards SI to Acct. Team/CRSG or;
4. If requested on the SI, an engineering job is issued for the CLEC requested **Unbundled Loop Modification** (ULM). (The CLEC will indicate which ULM elements it requires on the SI. It is expected that the CLEC would have ordered **Loop Make-Up** prior to initiating an UCL SI)
5. OSPE forwards SI with ULM estimated completion date (ECD) to Account Team Representative/CRSG.
6. When ULM is complete, OSPE sends the SI with complete date to Account Team Representative/CRSG.
7. Account Team Representative/CRSG notifies CLEC of ULM completion
8. Sends SI and LSR to LCSC.
9. LCSC issues order to provision the requested UCL loop.

# BellSouth Unbundled Copper Loop

## Service Order Requirements

The CLEC will complete a Local Service Request (LSR) form according to the Ordering and Billing Forum (OBF) ordering guidelines. The CLEC may also refer to the **"BellSouth Ordering Guide for CLECs" (link to this document)** for preparation of the LSR.

The following information that is unique to UCL is also required on the LSR:

| LSR Field | Information Required | | | |
|---|---|---|---|---|
| | Loop Type | NC | NCI at CLEC | SEC NCI at End User |
| NC/NCI | 2 Wire UCL/S ≤ 18Kft | LX-N | 02QC3.OOF | 02NO2 |
| | 4 Wire UCL/L ≤ 18kft | LX-N | 04QC3.OOF | 04NO2 |
| | 2 Wire UCL/S > 18kft | LX– | 02QC3.OOF | 02NO2 |
| | 4 Wire UCL/L > 18kft | LX– | 04QC3.OOF | 04NO2 |

## Other Non-Recurring Charges

*Order Cancellation* – applies if the CLEC cancels an order. This charge is for work associated with provisioning UCL pairs at the time the CLEC cancels an order.

*Service Order Modification Charge* – Applies if the CLEC modifies a service order after the Firm Order Confirmation has been issued.

*Overtime Charge* – Applies for work requested outside of normal working hours.

*Time & Material* – Applies for dispatch out if "no trouble found"

# BellSouth Unbundled Copper Loop

## Maintenance & Repair Procedures

The CLEC is responsible for testing and pre-screening any trouble conditions to make sure the trouble is with UCL loop pair before calling BellSouth. If the CLEC's testing isolates the repair problem to BellSouth's unbundled loop, the CLEC should notify the Unbundled Network Element (UNE) Center. The target interval for maintenance resolution is 24 hours from the time the trouble is reported to the UNE center.

The CLEC must provide the following information to UNE Center when reporting a repair problem:

- UCL pair Circuit ID
- Description of the trouble

If BellSouth dispatches a technician on a CLEC reported trouble call and no UCL trouble is found, BellSouth will charge the CLEC for time spent on the dispatch and for time spent testing the UCL loop.

REQUEST: Please provide all documents and data relating to electronically obtaining loop make-up information and/or electronically preordering or ordering loops, including a complete copy of any cost study BellSouth has developed (for submission to any state or federal regulatory agency or for internal business case analysis) to determine rates for electronically obtaining loop make-up information and/or electronically preordering or ordering loops. Please identify any differences in methodology between the costs in the studies provided. Please include a complete working copy of all computerized models involved in preparing the costs with data intact; a complete set of working papers with all special studies, data sources, data inputs and assumptions and a complete set of cost study documentation.

RESPONSE: The following responsive documents are a review of Electronic Access to Loop Make-up:

1) CLEC xDSL Electronic Access Review

2) Minutes from a CLEC Review dated 3/21/00

3) Draft of Encore User Requirements for Pre-Order. These documents contain proprietary information and are being provided subject to the terms of the Protective Order.

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for Production of Documents
May 3, 2000
Item No. 8 Attachment



# CLEC xDSL
# Electronic Access Review

4/19/00

**BellSouth**



# Target July 2000 - UNE Remand (xDSL, UCL UNE) - Phase 1

- Capabilities
  - Supports UNE Remand
  - 2 wire and 4 wire ADSL UNEs and 4 wire HDSL UNE order types
  - UCL 2 and 4 wire short (<= 18 kft) and 2 and 4 wire long (>18 kft)
  - Provides electronic access to loop makeup data
- Characteristics
  - Loop makeup will be provided from LFACS
  - Electronic pre-ordering, ordering and order generation will be accessed via existing interfaces: TAG, RoboTAG, LENS - pre-ordering and ordering; EDI - ordering.

# Proposed 4th Quarter 2000 xDSL Enhancements - Phase 2

- Capabilities
  - Auto generation of CLEC xDSL Service Inquiry for DSL/UCL if requested
  - Trying for Unbundled Loop Modification
- Characteristics
  - Provide Loop Makeup (UNE or Line Sharing)
  - Leverages existing CLEC interface capabilities
  - Collect metrics

# CLEC xDSL UNE Meeting Minutes

March 21,2000
**8:30AM-4:30PM**

**Attendees List**

| Name | Company | E-mail Address |
|---|---|---|
| **Sandy Evans** | **Sprint** | Sandra.K.Evans@mail.Sprint.com |
| **Carty Hassett** | **Bluestar** | Carty.hassett@bluestar.net |
| **Wanda Venhuizen** | **BellSouth** | Wanda.Venhuizen@bridge.bellsouth.com |
| **Kevin McCall** | **BellSouth** | Kevin.M.Mccall@bridge.bellsouth.com |
| **Marcia Moss** | **BellSouth** | Marcia.moss1@bridge.bellsouth.com |
| **David Sedlock** | **Bluestar** | David.sedlock@bluestar.net |
| **Lianne Griffin** | **BellSouth** | Lianne.griffin@bridge.bellsouth.com |
| **Mary Conquest** | **ITC&D** | Mary.conquest@itcdelta.com |
| **Jill Williamson** | **AT&T** | Jrwilliamson@att.com |
| **Annette Curcio** | **EFTIA OSS Solutions** | Acurcio@eftia.com |
| **Debbie Lasher** | **EFTIA OSS Solutions** | Dlasher@eftia.com |
| **Chuck Polizzotti** | **Northpoint** | Cpolizzotti@northpointcom.com |
| **Chris Allen** | **BellSouth** | Chris.Allen@bridge.bellsouth.com |
| **William Grant** | **Telcordia** | Generalg@cris.com |
| **Michael Young** | **Telcordia** | Wolfsbrg@cris.com |
| **Pat Rand** | **BellSouth** | Pat.a.rand@bridge.bellsouth.com |
| **Cynthia Vannoy** | **LNI** | Cynthia.vannoy@lightnetworks.com |
| **Natalie Gregory** | **LNI** | Natalie.Gregory@lightnetworks.com |
| **Bogdan Szafraniec** | **COVAD** | Bszafran@covad.com |
| **Jane Hunter** | **Sprint** | Mary.J.Hunter@mail.sprint.com |
| **Mae Means** | **Sprint** | Mae.Means@mail.sprint.com |
| **Eric Brockman** | **BellSouth** | Eric.brockman@bridge.bellsouth.com |
| **Ken Ward** | **Eftia/Cap Gemini** | Kward@usa.capgemini.com |

| | | |
|---|---|---|
| **Steven Brown** | **COVAD** | Sbrown@covad.com |
| **Tommy Williams** | **BellSouth** | Tommy.g.williams@bridge@bellsouth.com |
| **Fred Baros** | **Rhythms** | Fbaros@rhythms.net |
| **Dick Schell** | **Rhythms** | Rschell@rhythms.net |
| **Jeremy Marcus** | **Rhythms** | Jeremy@technology.com |
| **Steven Brown** | **COVAD** | Sbrown@covad.com |
| **Martin Harvey** | **Cap Gemini** | Mharvey@usa.capgemini.com |
| **Vickie Beachley** | **BellSouth** | Vickie.beachley2@bridge.bellsouth.com |
| **Torri G. Joiner** | **BellSouth** | Torri.Joiner@bridge.bellsouth.com |

**Meeting Purpose: To Review CLEC xDSL Loop Make Up Data Requirements and CLEC xDSL Firm Order Requirements that BellSouth has targeted for a 7/1/00 implementation.**

The meeting began with a brief overview of the meeting purpose.

- It was stated that BellSouth was working with requests that originated from the BellSouth Change Control Process. The service will be available to customers electronically via TAG, RoboTAG, EDI and LENS.

**The requirements for Mechanized Loop Makeup were reviewed**:

- In relation to the Loop Makeup, LQS will be offered as an interim solution to assist the CLECs to meet their immediate needs.

  The BellSouth xDSL Project Manager (PM), Lianne Griffin, advised that access to LQS will be provided to the customers as an interim solution for the Loop Makeup process.

  The customers were advised they would work with their account teams to set up access to LQS.

- The customers stated that they wanted to be able to view what was available without making a reservation.

  The PM stated that the purpose of the reservation is to keep CLECs from going on the interfaces and reserving numerous products and then deciding not to purchase or use them.

  Fred Baros, (Rhythms) stated that there are other data elements available via LFACS that are not presently available via the BellSouth Loop Make-Up Data

Requirements. He will provide BellSouth with the additional data fields for investigation.

Per Lianne, the assumptions will be reevaluated and will be updated when changes are made.

- The customers were advised that the BellSouth Change Control Process is the process that should be used to make any and all requests for changes and/or enhancements to the BellSouth processes.

- A request was made for BellSouth to offer Pre-order capabilities via EDI. It was stated that BellSouth had no current plans to offer pre-ordering via EDI. It was further stated that pre-order functionality is currently available through TAG, RoboTAG, and LENS. The CLECs were advised that they should submit a formal request through the Change Control process and that BellSouth will evaluate the matter further and provide a formal response to the CLEC body.

**Mechanized Firm Order Requirements Review:**

- When the documents are implemented on 7/1/00, will this go to a flow through process? Yes it will flow through per Vickie.

- What is the difference between Designed and Non-Designed? When will the CLECs need to order a Non-Designed circuit? BellSouth stated that there are no non-designed xDSL services.

- The CLECs were advised that OSS'99 is the equivalent of Local Exchange Service Ordering Guide (LESOG) 4 using the TCIF version 9 map. In order for the CLECs to have access to the new xDSL offerings, they must upgrade their interfaces to the TCIF version 9 map.

- Chuck Polizzotti asked if the LSR currently being used would be changed? BellSouth advised that in order to accommodate the new xDSL services, BellSouth would implement two new fields. They are RESID (the field where the Facility Reservation Number - FRN provided to them during the Loop Makeup Pre-order process will be populated) and a new CHAN/PAIR2 field.

- In relationship to Requirement UR7694.0181 there is a new field (RESID) added to the LSR.

- In relationship to Requirement 199, if there is no FRN will the order be rejected? Yes, you will receive an error message per Wanda.

- Chuck asked can you use a manual service inquiry process and an electronic order? BellSouth will take this as an action item for further review and provide a response at a later date.

- The question was asked, how long will it take to receive a return on a FOC? The current specifications are 4 hours on flow through and 48 on non-flow through.

- Bogdan (COVAD) asked if the ordering of a new loop would require that the facilities be reserved during the Pre-order process? BellSouth stated that yes, the RESID field is required on the firm order.

- Lianne stated that today CLECs have to send an inquiry with a firm order when making a request. CLECs are required to have a reservation with a new order.

- Bogdan (COVAD) asked why do CLECs have to do a pre-order inquiry? Lianne stated that the CLEC must determine that the loop will qualify for the service they want to put on the facility. BellSouth will not qualify the loop for the CLEC, but will provide the CLEC with the loop makeup information that will enable the CLEC to make that determination for themselves.

- What electronic interface will the CLECs need to transition from the manual to the new interface? Firm order capability will be available in July per Lianne. The same interfaces currently used by our external customers will provide the new functionality (firm order via LENS, TAG, RoboTAG, and EDI and Pre-order via LENS RoboTAG, and TAG).

- Rhythms was concerned that they would have EDI mapping data available only 30 days prior to the implementation of the new products. It was noted that there are not many differences between these new products and existing Loops currently provided by BellSouth. Fred Baros (Rhythms) responded that they had not built Loops into their current functionality.

- David Sedlock (Bluestar) asked how realistic is the 7/1/00 date being that it's already near April? Lianne stated BellSouth planned to meet the implementation date of 7/1/00.

**Open Discussion Issues:**

- David Sedlock asked where could he find information in relationship to OSS'99. Vickie responded by stating it is available to all customers on BST's external web site.

- Carty asked how using the currently established data fields and business rules to order Digital "designed" loop services distinguish the differences? The manual process is already out there via the LEO Implementation Guide. Some of the CLECS disagreed and stated that they could not get access to the services. It was stated that BellSouth currently supports SL1, SL2 and several varieties of Digital Loops via the electronic interfaces, which does include an ISDN BRI Digital Loop.

- Jill Williamson (AT&T) stated that the ISDN BRI Digital Loop is available and that it was included in the requirements shared during the development of the OSS99 Requirements.
- Pat Rand stated that OSS 99 supported OBF LSOG 4 via the TCIF Version 9 EDI Map
- Carty Hassett (Bluestar) asked what if a CLEC did not have a previously established CABS account? Wanda stated that the account(s) would have to be established prior to ordering via the electronic interfaces.
- BellSouth plans to provide Line Sharing electronically during the 4th quarter of 2000.
- The CLECs were advised that BellSouth planned to offer 2 wire and 4 wire, short and long Unbundled Copper Loops in the July 1st timeframe.
- It was discussed that BellSouth is currently conducting Line Sharing meetings jointly with some CLECs. The name of the Project Manager, Brenda Slonneger and the Product Manager, Tommy Williams, were provided for other CLECs who might like to participate in the development process.
- What is the current logic for analog voice non-designed Loops? Will it be the same as it is today? BellSouth responded that yes, it would remain the same.

| **Action Items** | **Owner** | **Questions/Issues** |
|---|---|---|
| ✓ Want all spare pairs retrieved , not just those that meeting NC/NCI/SECNCI transmission characteristics (will this be needed for loop makeup modification) | BellSouth | This is being evaluated for inclusion in Phase 2, targeted for a 4Q00 implementation. |
| ✓ Need Additional Loop makeup data info; LFACS data included in this release is insufficient | Rhythms | Fred Baros provided a list of LMU data elements they would like BellSouth to provide on 3/31/00. |
| ✓ Need Primary Rate ISDN; **Basic Rate** ISDN UNE; Mech. pre-order & order functionality (Per Chuck and Carty). | BellSouth | BellSouth will evaluate for inclusion in future releases. Formal requests should be made via the change control process. |

| | | |
|---|---|---|
| ✓ NC/NCI/SECNCI Required for an existing service? Can it be optional? (UR7762.0012.c) What is the existing rule? (COVAD) | BellSouth | This is being evaluated for inclusion in Phase 2, targeted for a 4Q00 implementation. |
| ✓ 4-day reservations-When does the four days end? Are the four day reservations enough time allowed to place the orders? When does the four days end? Answer- from the time it is reserved? | BellSouth | The four days will begin at the time of reservation and exclude weekends and BellSouth observed Holidays. |
| ✓ Can a reservation be extended? (Jill Williamson) | BellSouth | A Firm Order should be placed within four days or the reservation will be cancelled. The CLEC may initiate another pre-order transaction to reserve pairs again. |
| ✓ Want pre-order capability through EDI. Want Pre-order/order Flow-Through. Rhythms mentioned that they sent a letter in relationship to this. | BellSouth | The only interfaces being used for pre-order functions at this time will be TAG, RoboTAG and LENS. BellSouth will evaluate for inclusion in future releases. Formal requests should be made via the change control process. |
| ✓ Want reporting/statistical information on queries, responses returned, # accepted or rejected, etc. Asked by David Sedlock. | BellSouth | BellSouth will evaluate for inclusion in future releases. Formal requests should be made via the change control process. |
| ✓ SLA's for responses - What service level will BST provide? | BellSouth | |
| ✓ Want future meeting to address process flow including mechanized and manual processes, including interim offerings. Requested by COVAD. | BellSouth | Follow-up meeting will be scheduled in May 2000. |

| | | |
|---|---|---|
| Carty requested that someone from LCSC and CRSC be in attendance of this meeting. | | |
| ✓ Concern that only 20% of facilities have loop makeup data available. Can BellSouth tell by CO where this 20% is? | BellSouth | Current estimates are that up to 90% of the feeder plant contains loop makeup information in LFACS, but much of the Distribution Plant, particularly in residential areas, is not yet populated. Current M&Ps specify that as Loop Make-Ups are run, they will be input into LFACS. |
| ✓ Will Manual Service Inquiry work with Electronic Ordering? | BellSouth | |
| ✓ When will EDI & TAG specs be available for ADSL and HDSL/UCL? | BellSouth | 30 days prior to implementation. |
| ✓ Want to place firm order without having to reserve the facility first. Rhythms and COVAD do not agree. Fred from Rhythms; Bogad from COVAD. | BellSouth | |
| ✓ Can BellSouth provide a list of transmission characteristics associated with NC/NCI/SECNCI for LFACS search criteria? | BellSouth | This will be provided at the follow-up meeting scheduled for May 2000. |
| ✓ Does BST plan to charge for Loop Makeup or FRN? How much? | BellSouth | A BellSouth Product Manager (David Hitt) has been named and is investigating this. As plans are finalized, existing contracts will be reevaluated/updated. |
| ✓ Access to other databases w/ Loop Makeup information (Example: TIRKS).<br>✓ Is loop makeup also available via TIRKS?<br>✓ What access is available to TIRKS? | BellSouth | The BellSouth Trunks Integrated Record Keeping System ("TIRKS") is not the "owner" database for loop make-up information; LFACS is the database of record. TIRKS contains only working circuit information. Thus, loop make-up information is stored in TIRKS on a per circuit basis. The make-up is passed to |

| | | |
|---|---|---|
| | | TIRKS from LFACS or by examination of the plats when new service is ordered. That is to say that TIRKS cannot be accessed on a per terminal basis to determine make-ups for specific cables, to specific customer addresses. Data on loop make-up can only be retrieved on a per circuit basis. |

**Wish List**

1. Jill Williamson- Would like to see LMU data on any facility, regardless of service type
2. COVAD- Database of Extract of LFACS (LEADS Loop Engineering Assignment Data).
3. Include other databases like TIRKS?
4. UNE T1
5. EEL – Enhanced Extended Links
5. UNE Modification Services

REQUEST: Please provide all documents and data relating to BellSouth's determination of the demarcation point in multitenant buildings in Tennessee. These documents should include any information concerning the use of the minimum point of entry (MPOE) as the demarcation point in any multitenant buildings in Tennessee.

RESPONSE: BellSouth objects to this Request on the grounds that the information requested is not relevant to any issue in this proceeding nor is it reasonably calculated to lead to the discovery of admissible evidence. The list of issues agreed to by the parties and approved by the Pre-Arbitration Officer and Arbitrators makes no reference whatsoever to nor does it address "demarcation point or MPOE."

BellSouth Telecommunications, Inc.
TN Docket 99-00945
BlueStar Network's First Request for
Production of Documents
May 3, 2000
Item No. 9 Attachment

RL: 91-09-04

BELLSOUTH TELECOMMUNICATIONS

file code: 840.0101

subject: BellSouth's Wiring/Cable Procedures

type: Information Letter

date: October 9, 1991

distribution list: ND7, ND3, ND4, ND5, ND0, CE1, S08, NC1, ND1, ND2, CP2

related letters: RL: 90-08-055SV

file

other: None

to: B. G. Almond, Operations Manager – OSPE/C – Implementation/GA, MS, LA
D. L. Guillory, Operations Manager – Implementation Support/KY, TN, NC, SC
E. M. Hardwick, Operations Manager – Impl. Support/GA, MS, LA
P. D. Prevost, Operations Manager – CO/OPS/SS/FL, AL
D. R. Smith, Operations Manager – CO/OPS/SS/GA, MS, LA
W. H. Smith, Operations Manager – CO/OPS/SS/KY, TN, NC, SC
T. C. Taylor, Operations Manager – Implementation Support/AL, FL
B. R. Williams, Operations Manager – OSPE/C Implementation/FL, AL

entities: BellSouth Telecommunications

from: Operations Manager – Special Services
Operations Manager – Center/Field M&P/PM–ARSB
Operations Manager – Outside Plant Engineering Systems Development

description: Provides information regarding BellSouth's wiring/cable procedures.

★ ★ ★

Region Letter 90-08-055SV issued 10/7/90 provided initial guidelines for implementation of new demarcation point rules brought about by the FCC 88-57 Order. RL 91-08-036SV issued 8/31/91 provided clarification relating to use of existing network interface jacks, customers' need for one demarcation point, use of conduit, and diverse building entrances. In response to field requests, this Region Letter provides a summary of demarcation point procedures with diagrams.

Following are definitions of a few terms used in this document:

POINT OF DEMARCATION (POD) = The point at which the regulated Telephone company's facilities end and the customer's premises wiring begins. The Point of Demarcation is comprised of a Company provided Network Interface (NI) jack and is located on a customer's premises in accordance with guidelines that follow.

TELEPHONE EQUIPMENT ROOM = A defined, enclosed space (walls and door) that a customer has provided primarily for telecommunications services. Where an equipment room is provided by the customer, this room will be considered the most practicable POD location for all future services, if so requested by the customer.

PREMISES = The discrete real property owned, leased or controlled by a subscriber for the subscriber's own residential or business use.

NOTICE

FACILITIES ENTRY POINT (FEP) = The point at which the Telephone Company's cable or wire first enters a customer's premises through a wall, floor, ceiling or conduit.

SINGLE FAMILY RESIDENCE

Unless specified otherwise by the subscriber, the normal location of the POD is at an Outdoor Network Interface jack affixed to the exterior of the residence. The POD will be located inside the residence at the Facility Entry Point (FEP) if the subscriber so requests.

OTHER BUILDINGS

Single Tenant, Single Floor – Where customer line requirements can be accommodated with an Outdoor Network Interface (ONI), it will be affixed to the exterior of the building. Where customer requirements cannot be accommodated with an ONI, or where the customer requests an interior Point of Demarcation (POD), a maximum of one POD will be located within 12 inches of the facilities entry point, or as close as practicable thereof.

NOTE: Where a subscriber has provided a telephone equipment room, the room will be considered the most practicable point of demarcation if the subscriber so requests.

Single Tenant, Multi–Floor – If a customer requests multiple PODs, a maximum of one POD can be established per floor, located within 12 inches of the facilities entry point or as close as practicable thereof.

Multi–Tenant buildings – A maximum of one POD for all future services will be established at each subscriber's premises, located within 12 inches of the facility entry point, or as close as practicable thereof. Where one subscriber occupies multiple floors, each floor is considered a separate premises.

Campus–Type Properties – PODs will be established in each building on single and multi–tenant campus properties per preceding guidelines.

Refer to figures 1–7 for further clarification.

Questions regarding this subject should be referred to your appropriate staff contact. Questions from the Implementation Staff may be directed to M. E. Hulsey – SSIM at (404) 529–7698, Tom Larsen – BICS at (404) 529–5426, or Steve Vanderburg – I&M at (205) 977–3097.

J. E. Blitchington
Operations Manager –
Special Services

G. D. Harkness
Operations Manager –
Center/Field M&P/PM–ARSB

Jim Bedell
Operations Manager –
Outside Plant Engineering Systems
Development

Attachments

NOTICE
Not for use or disclosure outside BellSouth or ...

Single Tenant, Single Floor with Co-located Entrance Terminal and Equipment Room

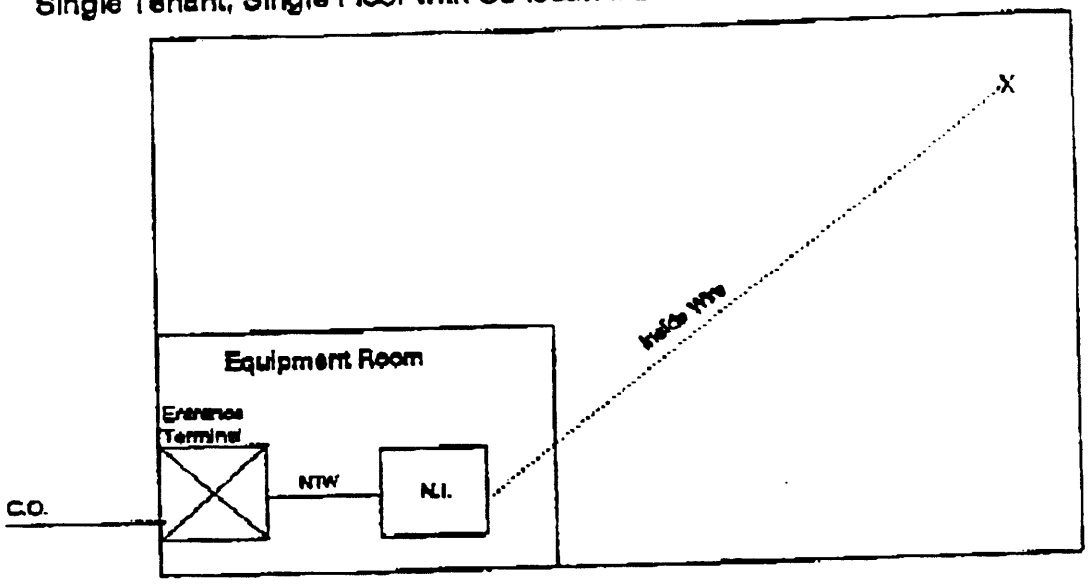



FIGURE 1

The above diagram depicts a situation where the customer has provided a room for both the entrance terminal and the Network Interface. All wire beyond the NI is deregulated. Wire between the entrance terminal and the NI is Network Terminating Wire (NTW) and is considered part of regulated network distribution facilities.

Single Tenant, Single Floor with Equipment Room.
Not Co-located with Entrance Terminal

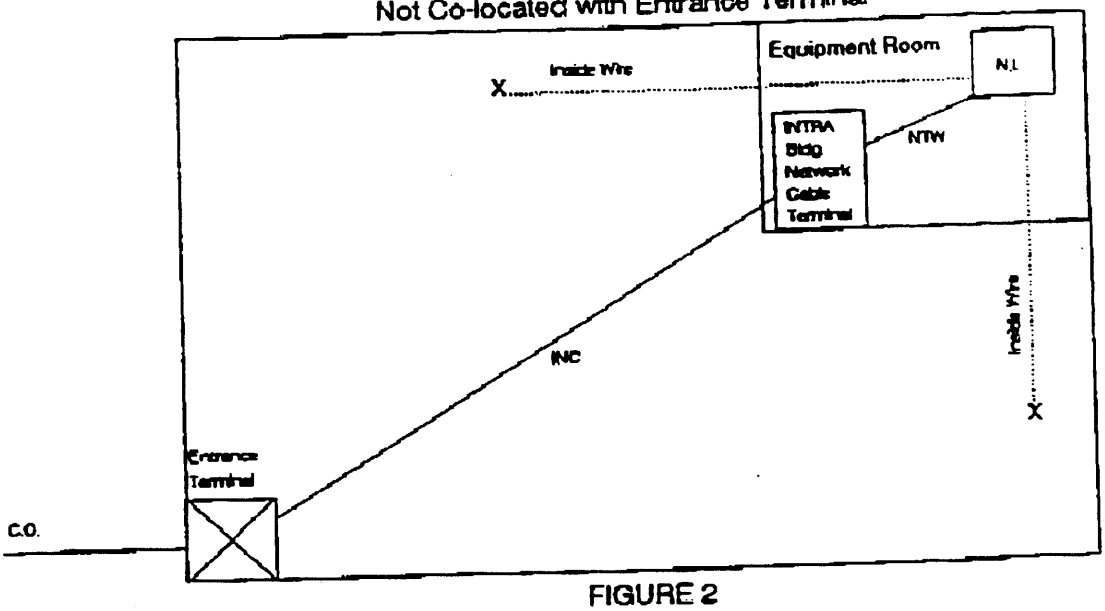



FIGURE 2

In a building where the customer has provided an equipment room for placement of the Network Interfaces (NIs), the equipment room will be considered the most practicable Point of Demarcation. Wire from the entrance terminal to the NIs in the equipment room is regulated NTW or INC. All wire beyond the NIs is deregulated inside wire. NOTE: In some cases, shielded outside plant cable may be required between the entrance terminal and the equipment room. If so, this cable is considered Intrabuilding Network Cable (INC) and, similar to NTW, is considered regulated network distribution facilities. The decision criteria to utilize NTW or INC is no different than in the past and is usually determined by the BICS Engineer or OSP. (If room where entrance terminal is suitable, it may be used as equipment room).

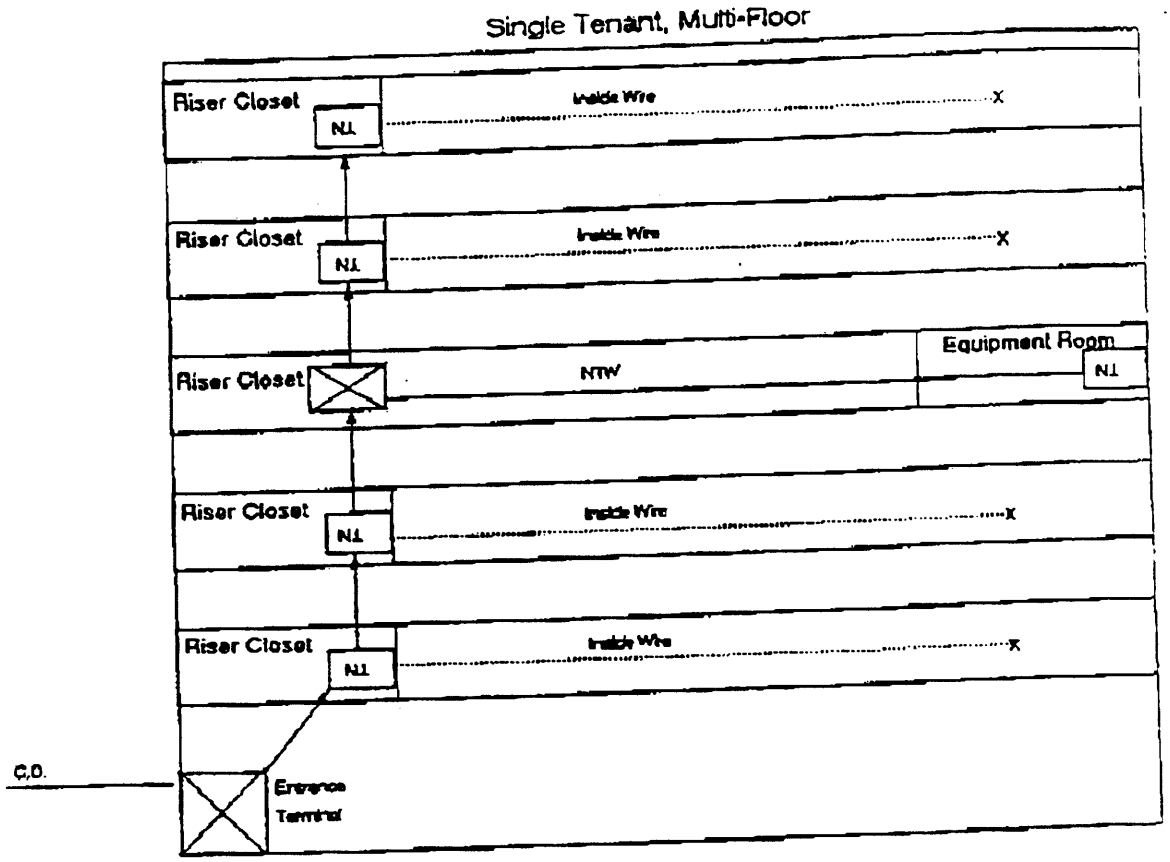



FIGURE 3

Where a single tenant resides in a multi-story building, one Point of Demarcation may be established on each floor if requested by the customer. If the riser closet is a suitable location for the Network Interface jacks, this will be the demarcation point. If not, and the customer has provided a telephone equipment room beyond the riser closet, the NIs for all future services may be located in this room. The riser facility in such buildings is usually engineered shielded Intrabuilding Network Cable (INC), however, in smaller buildings the riser facility may be NTW. Again, the decision to use INC or NTW is no different than in the past and is usually made by the BICS or OSP Engineer.

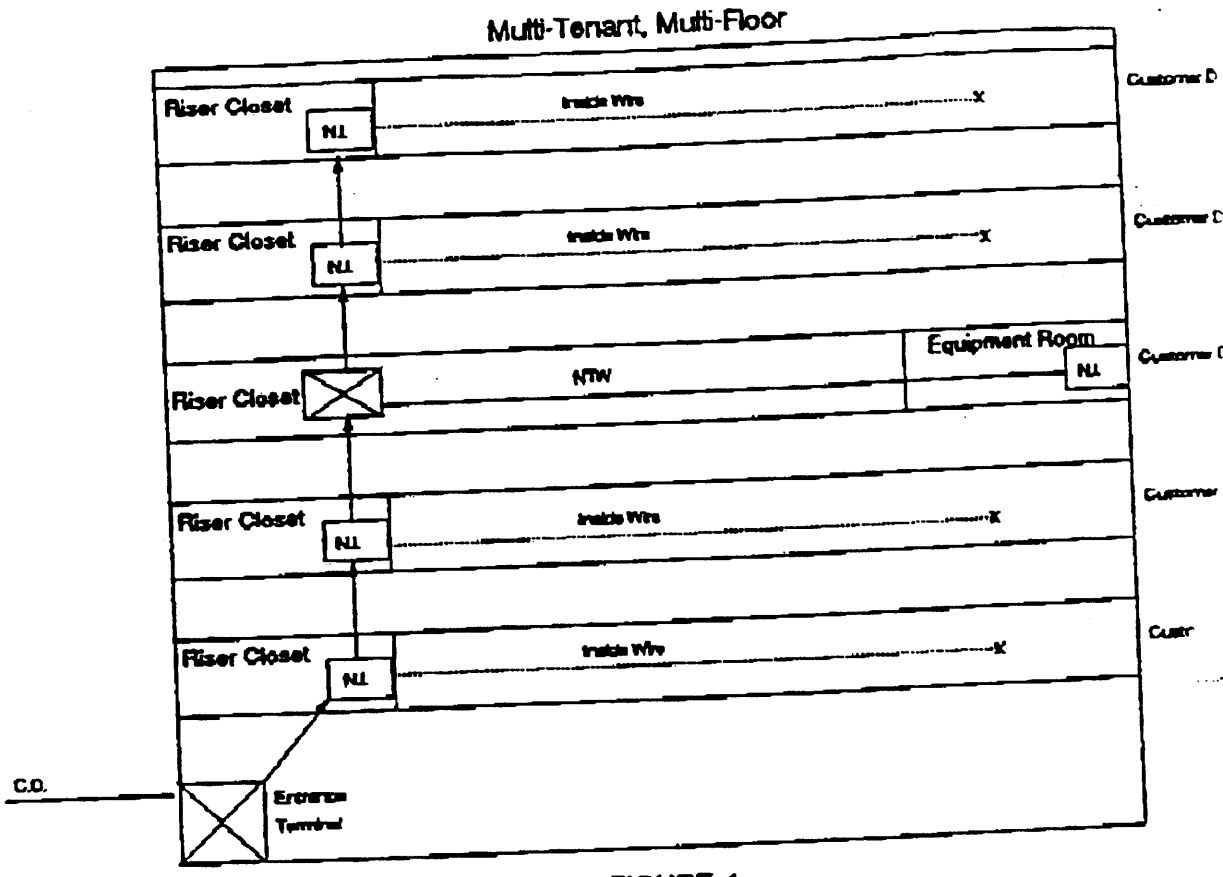



FIGURE 4

In multi-tenant, multi-floor buildings, one Point of Demarcation will be established per customer premises. If one customer occupies more than one floor (Customer D), a demarcation point may be established on each floor. Once inside the customer's premises, the same rules apply as previously outlined for single tenant structures; that is, the NIs will be located at the facilities entry point, or in an equipment room if the customer has provided one (Customer C). Of course, any wire beyond the NI is deregulated.

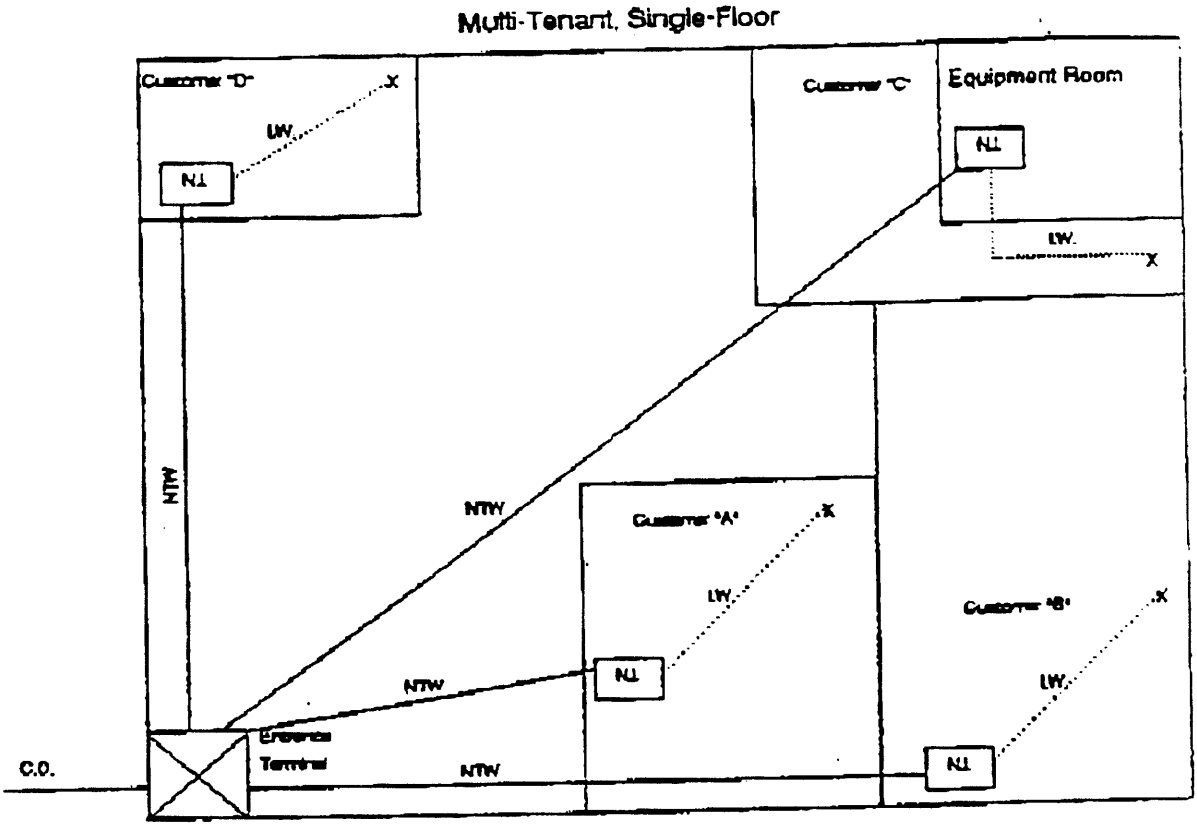



FIGURE 5

Similar to a multi-tenant, multi-story building, one demarcation point will be established in each customer premises. Once inside the customer's premises, the same rules apply as outlined previously for single tenant structures. The above configuration is most often encountered in strip shopping centers and, normally, customers do not provide separate equipment rooms. Nevertheless, the same principles apply as in a high rise, multi-tenant building; that is, if a customer (see customer C above) has provided a telephone equipment room and requests the NIs at that location, we should accommodate the customer's request.

Campus Arrangement

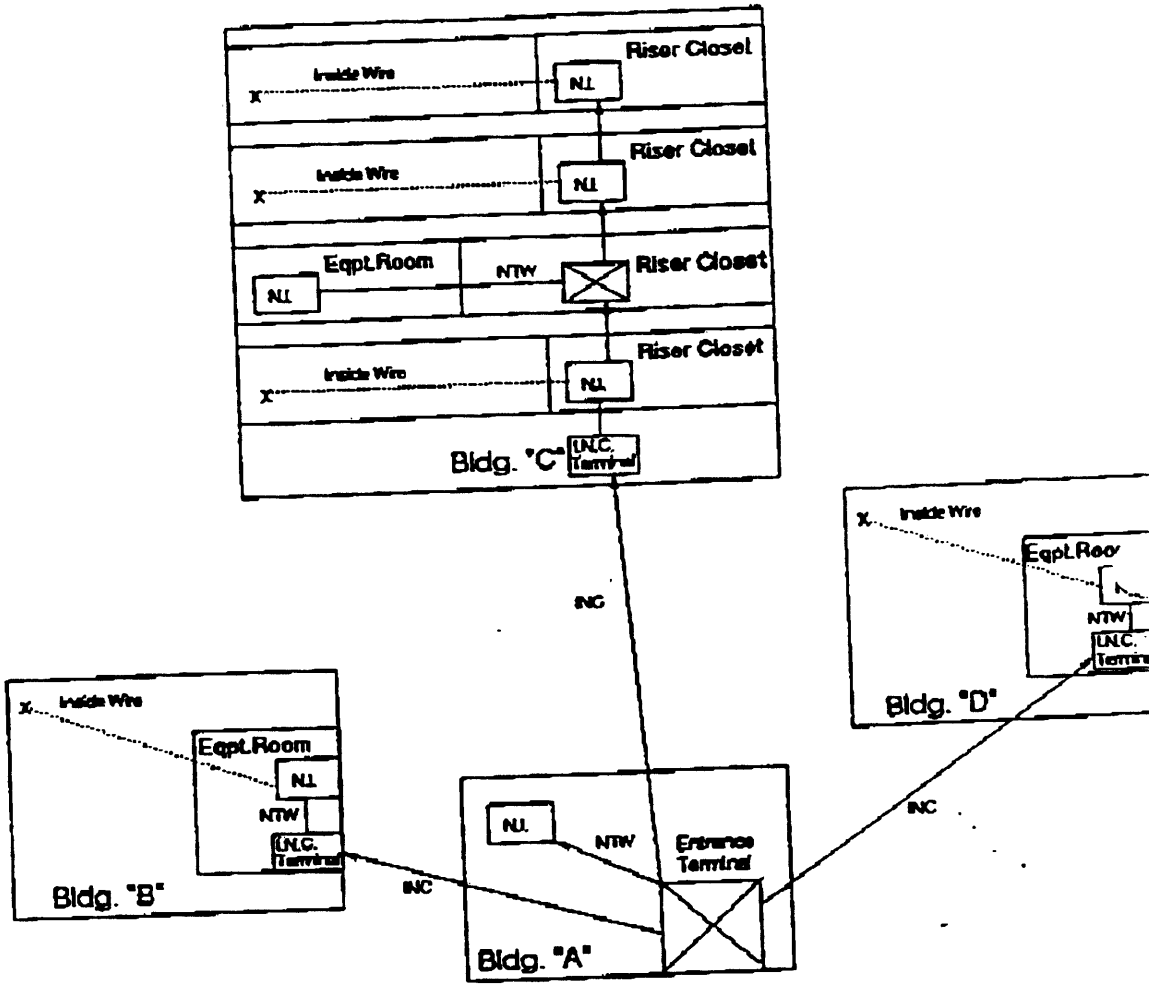



FIGURE 6

In a single tenant campus arrangement, a Point of Demarcation may be established on each floor of each building if the customer so requests. Again, once on a particular floor of a building, the demarcation point will be located at the facilities entry point or in an equipment room if one is provided by the customer.

The same rules apply for multi-tenant campuses as previously outlined for other multi-tenant situations; (i.e., one demarcation point per customer premises). If the customer's premises contains more than one floor, a demarcation point may be established on each floor. (If cable between buildings is customer owned we will demarc in building "A", or run wire/cable between buildings if feasible.)

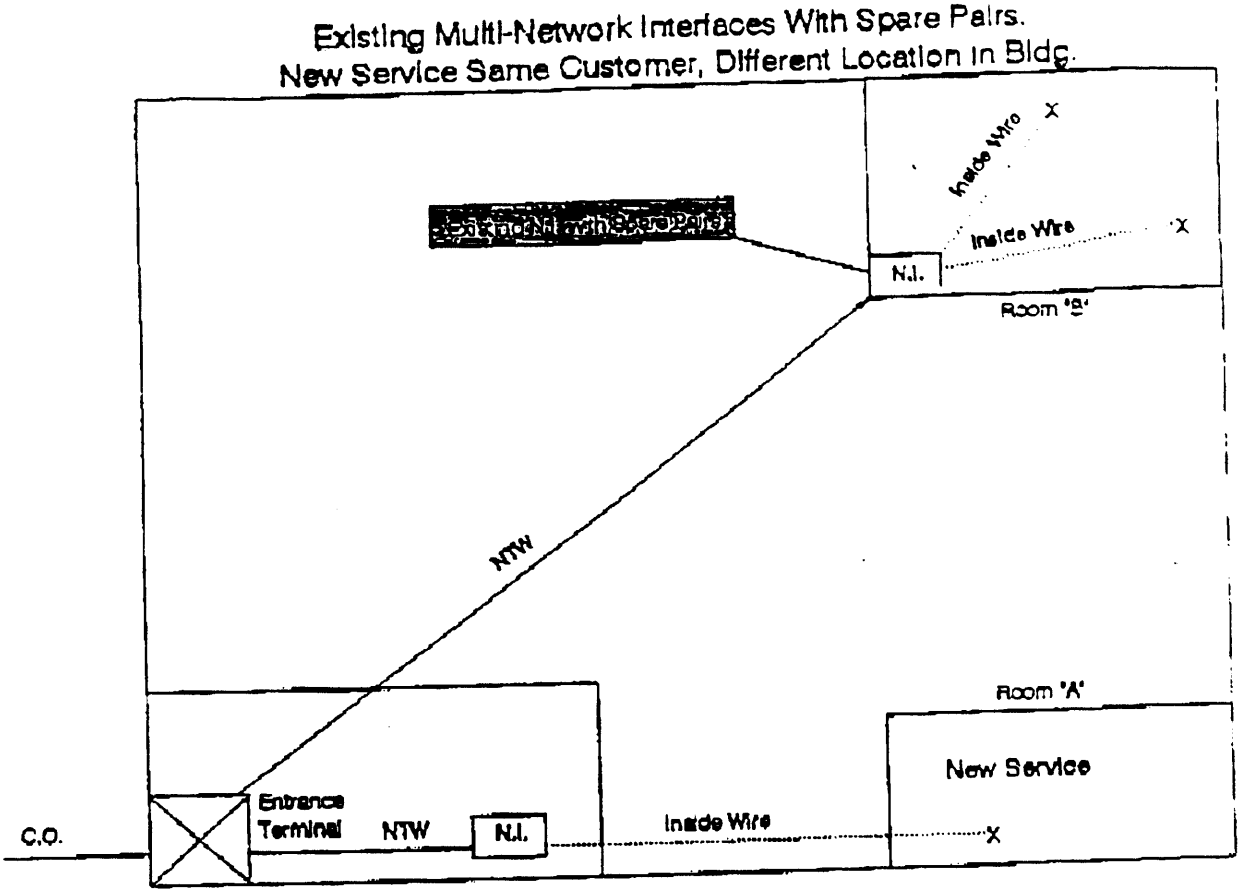



FIGURE 7

The above diagram depicts a situation where the customer has existing service and the Point of Demarcation is established, if the existing NI is not filled to capacity we may use the existing NI until it reaches capacity, as long as no new wire or NCTE is required. There may be situations where the NTW is not fully utilized, but the NI has reached capacity. In this case, no additional NIs will be installed.

REQUEST: Please provide copies of all agreements or documents between BellSouth and the owners or managers of multitenant buildings in Memphis and Nashville, Tennessee concerning the ownership of INC, riser cable or network terminating wire in such buildings.

RESPONSE: BellSouth objects to this Request on the grounds that the information requested is not relevant to any issue in this proceeding nor is it reasonably calculated to lead to the discovery of admissible evidence. The issue to which this Request is presumably directed – Issue 16 – does not involve any dispute between BellSouth or BlueStar and "the owners or managers of multitenant buildings..." Issue 16. Nor does Issue 16 deal with "the ownership of INL, riser cable or network terminating wire." To the contrary, Issue 16 is "Should the interconnection agreement include a provision allowing BlueStar to cross connect its DSLAM directly to BellSouth's riser cable NID in buildings, and if so, what, if any, rates, terms, and conditions should apply" – nothing more, nothing less. Copies of the documents requested by BlueStar bear no relation to this issue.

REQUEST: For each document production request, identify the individual that BellSouth relied upon to provide the documents.

RESPONSE: The following individuals provided documents:

Daonne Caldwell
Director-Finance

Ronald Pate
Director-Interconnection Services