BELLSOUTH

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

615 214-6301
Fax 615 214-7406

Guy M. Hicks
General Counsel

RECD TN
'99 DEC 1 PM 4 11
EXECUTIVE SECRETARY

December 1, 1999

VIA HAND DELIVERY

David Waddell, Executive Secretary
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, TN 37238

Re: *Contested Cost Proceeding to Establish Final Cost Based Rates for Interconnection and Unbundled Network Elements*
Docket No. 97-01262

Dear Mr. Waddell:

Enclosed are fourteen copies of the non-proprietary portions of BellSouth's cost studies filed in compliance with the Authority's Order issued on November 3, 1999. All of the non-proprietary cost study adjustments and results are provided in an electronic format in the enclosed CD Rom.

Copies of the enclosed are being provided to counsel of record for all parties.

Very truly yours,

Guy M. Hicks

GMH:ch
Enclosure

188203

FILE

CERTIFICATE OF SERVICE

I hereby certify that on December 1, 1999, a copy of the foregoing document was served on the parties of record as indicated:

[✓] Hand [ ] Mail [ ] Facsimile [ ] Overnight	Richard Collier, Esquire Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, TN 37243-0500
[ ] Hand [✓] Mail [ ] Facsimile [ ] Overnight	Henry Walker, Esquire Boult, Cummings, et al. 414 Union Ave., #1600 P. O. Box 198062 Nashville, TN 39219-8062
[ ] Hand [✓] Mail [ ] Facsimile [ ] Overnight	Dana Shaffer, Esquire NEXTLINK 105 Malloy Street, #300 Nashville, TN 37201
[ ] Hand [✓] Mail [ ] Facsimile [ ] Overnight	Erick Soriano Kelley, Drye & Warren 1200 19th St., NW, #500 Washington, DC 20036
[ ] Hand [✓] Mail [ ] Facsimile [ ] Overnight	James Wright, Esq. United Telephone - Southeast 14111 Capitol Blvd. Wake Forest, NC 27587
[ ] Hand [✓] Mail [ ] Facsimile [ ] Overnight	Jon Hastings, Esquire Boult, Cummings, et al. 414 Union St., #1600 Nashville, TN 37219
[ ] Hand [✓] Mail [ ] Facsimile [ ] Overnight	Val Sanford, Esquire Gullett, Sanford, Robinson & Martin 230 Fourth Ave., N., 3d Fl. Nashville, TN 37219-8888

FILED

[ ] Hand
[✓] Mail
[ ] Facsimile
[ ] Overnight

Vincent Williams, Esquire
Office of the Attorney General
Consumer Advocate Division
426 Fifth Ave., N., 2nd Fl.
Nashville, TN 37243-0500

[ ] Hand
[✓] Mail
[ ] Facsimile
[ ] Overnight

Don Baltimore, Esquire
Farrar & Bates
211 Seventh Ave., N., #320
Nashville, TN 37219-1823

[ ] Hand
[✓] Mail
[ ] Facsimile
[ ] Overnight

Charles B. Welch, Esquire
Farris, Mathews, et al.
511 Union St., #2400
Nashville, TN 37219

[ ] Hand
[✓] Mail
[ ] Facsimile
[ ] Overnight

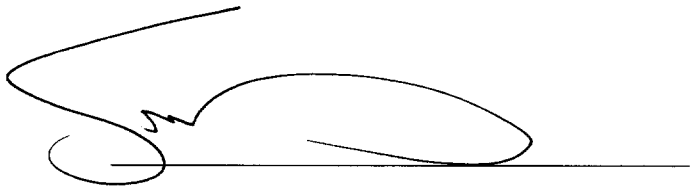
Kenneth Bryant, Esquire
Trabue, Sturdivant & DeWitt
511 Union St., #2500
Nashville, TN 37219-1738

[ ] Hand
[✓] Mail
[ ] Facsimile
[ ] Overnight

William C. Carriger, Esquire
Strang, Fletcher, et al.
One Union Square, #400
Chattanooga, TN 37402

[ ] Hand
[✓] Mail
[ ] Facsimile
[ ] Overnight

James P. Lamoureux
AT&T
1200 Peachtree St., NE, #4068
Atlanta, GA 30367



Summary of Modifications and Adjustments to BellSouth Telecommunications, Inc.'s Cost Studies Ordered by the Tennessee Regulatory Authority Docket No. 97-01262

Executive Summary

On November 3, 1999 the Tennessee Regulatory Authority (TRA) ordered BellSouth Telecommunications, Inc. to file revised cost studies which incorporate all findings contained in that order. The TRA also ordered BellSouth to offer integrated digital loop carrier (IDLC) to competitors. Loop and port studies reflecting use of IDLC are being filed in a separate document.

All of the cost study adjustments and results included in this filing are in an electronic format. BellSouth's TELRIC Calculator© was used to produce the results. BellSouth's previous filing in February 1999 required separate runs for recurring, nonrecurring, disconnect and testing. This filing includes the same runs. The adjustments ordered by the TRA have no impact on nonrecurring costs, disconnect costs or testing costs.

Listed below is a summary of the changes included in this filing. In addition there are two attachments to this Executive Summary: Attachment One is the revised cost summary, Attachment Two details the conversion of the OSS Electronic Interface cost to a recurring cost per unbundled network element (UNE).

Issue 4: What are the appropriate fill factors and utilization factors?

The Loop Model and the 4-Wire DS1 loop utilization inputs were revised to:

Distribution facilities	50.2%
Copper feeder	65.1%
Fiber feeder	74.0%

Issue 12: What is the appropriate loop sampling method for determining permanent prices?

The Loop Model residential/business line weightings were revised to 62.89% for residential and 37.11% for business.

Issue 7: How should network maintenance expense be calculated for determining UNE prices?

Plant specific factors were revised to remove the 22.5% reduction previously ordered by the TRA.

Issue 14: What is the proper method to calculate switch costs?

The following modifications were made:

1). The getting started investment was recovered through the "non-traffic sensitive costs of the switching port" as stated on page 29 of the Reconsideration Order. Additionally, BellSouth's recovery of these costs follow the methodology proposed in AT&T witness, Ms. Petzinger, as presented in Docket No. 97-01262. This additional investment was included in all line-side port costs.

2). Getting started investment was eliminated from the feature cost calculation since this investment was recovered by ports, as directed by the TRA.

3). Even though it was not mandated by the TRA, the end-office switching costs were converted from busy hour investments to "any time, any day" investments. This is appropriate since the CLEC will be charged for end-office usage throughout the day, not just in the busy hour.

4). The investment calculation was corrected to divide only by originating minutes of use. The 2/24/99-compliance filing included both originating and terminating minutes of use.

Issue 16: What is the appropriate level of operational support services (OSS) costs to be included in permanent prices; and
Issue 17(b): What amount of OSS costs should be recovered in non-recurring prices?

Element F.1.1 inputs were revised to reflect the same demand that was included in BellSouth's original filing. Attachment 2 shows the conversion of the resulting TELRIC cost per order to a monthly cost per UNE.

Issue 17(c): Which work activities should be included in developing non-recurring prices?

BellSouth used 15 minutes of work time and a 7% fallout rate in the previous filing.

Issue 18: What is the appropriate level of disconnect costs to be included in the non-recurring price (given the existence of a soft dial tone environment)?

BellSouth was unable to identify any disconnect costs associated with a soft dial tone arrangement. No changes were made.

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
A.0	UNBUNDLED LOCAL LOOP									
A.1	2-WIRE ANALOG VOICE GRADE LOOP									
A.1.1	2-Wire Analog Voice Grade Loop - Service Level 1	$14.56	$0.36	$14.92	$13.78	$0.36	$14.14	$0.78	$0.00	$0.78
A.1.2	2-Wire Analog Voice Grade Loop - Service Level 2	$17.64	$1.09	$18.73	$16.82	$1.09	$17.91	$0.82	$0.00	$0.82
A.1.3	2-Wire Analog Voice Grade Loop - Service Level 1 - Manual Order Coordination									
A.1.4	2-Wire Analog Voice Grade Loop - Service Level 1 - Order Coordination for Specified Conversion Time									
A.1.5	2-Wire Analog Voice Grade Loop - Service Level 2 - Order Coordination for Specified Conversion Time									
A.2	SUB-LOOP 2-WIRE ANALOG									
A.2.1	Loop Feeder Per 2-Wire Analog Voice Grade Loop	$8.62	$3.24	$11.86	$8.17	$3.24	$11.41	$0.45	$0.00	$0.45
A.2.2	Loop Distribution Per 2-Wire Analog Voice Grade Loop	$7.79	$2.23	$10.02	$7.33	$2.23	$9.56	$0.46	$0.00	$0.46
A.2.3	Loop Concentration - Channelization System - (Outside C.O.)	$328.28		$328.28	$323.55		$323.55	$4.73		$4.73
A.2.4	Loop Concentration - Remote Terminal Cabinet (Outside C.O.)	ICB		ICB	ICB		ICB			
A.2.5	Loop Concentration - Remote Channel Interface - 2-Wire Voice Grade (Outside C.O.)	$0.8766		$0.8766	$0.8639		$0.8639	$0.0127		$0.0127
A.2.6	NID Per 2-Wire Analog Voice Grade Loop	$1.15		$1.15	$1.11		$1.11	$0.04		$0.04
A.2.7	Loop Concentration - Channelization System - Incremental Cost - Manual Svc Order vs. Electronic									
A.2.8	Sub-Loop Feeder - Order Coordination for Specified Conversion Time									
A.2.9	Sub-Loop Distribution - Order Coordination for Specified Conversion Time									
A.3	LOOP CHANNELIZATION AND CO INTERFACE (INSIDE CO)									
A.3.1	Loop Channelization System - Digital Loop Carrier	$307.07		$307.07	$302.76		$302.76	$4.31		$4.31
A.3.2	CO Channel Interface--2-Wire Voice Grade	$0.8821	$0.32	$1.2028	$0.8697	$0.32	$1.1904	$0.0124	$0.0000	$0.0124
A.3.3	Loop Concentration - Channelization System - Incremental Cost - Manual Svc Order vs. Electronic									
A.4	4-WIRE ANALOG VOICE GRADE LOOP									
A.4.1	4-Wire Analog Voice Grade Loop	$25.14	$2.68	$27.82	$23.35	$2.68	$26.03	$1.79	$0.00	$1.79
A.4.2	NID Per 4-Wire Analog Voice Grade Loop	$1.27		$1.27	$1.22		$1.22	$0.05		$0.05
A.4.3	4-Wire Analog Voice Grade Loop - Order Coordination for Specified Conversion Time									
A.5	2-WIRE ISDN DIGITAL GRADE LOOP									
A.5.1	2-Wire ISDN Digital Grade Loop	$21.64	$3.49	$25.13	$20.87	$3.49	$24.36	$0.77	$0.00	$0.77
A.5.2	NID Per 2-Wire ISDN Digital Grade Loop	$1.15		$1.15	$1.11		$1.11	$0.04		$0.04
A.5.3	2-Wire ISDN Digital Grade Loop - Order Coordination for Specified Conversion Time									
A.6	2-WIRE ASYMMETRICAL DIGITAL SUBSCRIBER LINE (ADSL) COMPATIBLE LOOP									
A.6.1	2-Wire Asymmetrical Digital Subscriber Line (ADSL) Compatible Loop	$12.16	$3.47	$15.63	$10.81	$3.47	$14.28	$1.35	$0.00	$1.35
A.6.2	NID Per 2-Wire Asymmetrical Digital Subscriber Line (ADSL) Loop	$1.15		$1.15	$1.11		$1.11	$0.04		$0.04
A.6.3	2-Wire ADSL Loop - Order Coordination for Specified Conversion Time									
A.7	2-WIRE HIGH BIT RATE DIGITAL SUBSCRIBER LINE (HDSL) COMPATIBLE LOOP									
A.7.1	2-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop	$8.78	$3.47	$12.25	$7.95	$3.47	$11.42	$0.83	$0.00	$0.83
A.7.2	NID Per 2-Wire High Bit Rate Digital Subscriber Line (HDSL) Loop	$1.15		$1.15	$1.11		$1.11	$0.04		$0.04
A.7.3	2-Wire HDSL Loop - Order Coordination for Specified Conversion Time									
A.8	4-WIRE HIGH BIT RATE DIGITAL SUBSCRIBER LINE (HDSL) COMPATIBLE LOOP									
A.8.1	4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop	$12.46	$3.18	$15.64	$10.81	$3.18	$13.99	$1.65	$0.00	$1.65
A.8.2	NID Per 4-Wire High Bit Rate Digital Subscriber Line (HDSL) Loop	$1.27		$1.27	$1.22		$1.22	$0.05		$0.05
A.8.3	4-Wire HDSL Loop - Order Coordination for Specified Conversion Time									

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
A.9	4-WIRE DS1 DIGITAL LOOP									
A.9.1	4-Wire DS1 Digital Loop	$61.77	$3.33	$65.10	$58.50	$3.33	$61.83	$3.27	$0.00	$3.27
A.9.2	4-Wire DS1 Loop - Incremental Cost - Manual Svc Order vs. Electronic									
A.9.3	4-Wire DS1 Loop - Order Coordination for Specified Conversion Time									
A.10	4-WIRE 56 OR 64 KBPS DIGITAL GRADE LOOP									
A.10.1	4-Wire 56 or 64 Kbps Digital Grade Loop	$30.51	$4.54	$35.05	$28.64	$4.54	$33.18	$1.87	$0.00	$1.87
A.10.2	NID Per 4-Wire 56 or 64 Kbps Digital Grade Loop	$1.27		$1.27	$1.22		$1.22	$0.05		$0.05
A.10.3	4-Wire 56 or 64 Kbps Digital Grade Loop - Order Coordination for Specified Conversion Time									
A.11	Unbundled Loops - Incremental Cost - Manual Svc Order vs. Electronic									
A.11.1	Unbundled 2-Wire Loops - Incremental Cost - Manual Svc Order vs. Electronic									
A.11.2	Unbundled 4-Wire Loops (Excluding DS1) - Incremental Cost - Manual Svc Order vs. Electronic									
A.11.3	NID Per 2-Wire Loops - Manual Svc Order vs. Electronic									
A.11.4	NID Per 4-Wire Loops - Manual Svc Order vs. Electronic									
B.0	UNBUNDLED LOCAL EXCHANGE PORTS AND FEATURES									
B.1	EXCHANGE PORTS									
B.1.1	Exchange Ports - 2-Wire Analog Line Port (Res., Bus.)	$1.46	$0.24	$1.70	$1.04	$0.24	$1.28	$0.42	$0.00	$0.42
B.1.2	Exchange Ports - 4-Wire Analog Voice Grade Port	$7.94	$0.14	$8.08	$7.43	$0.14	$7.57	$0.51	$0.00	$0.51
B.1.3	Exchange Ports - 2-Wire DID Port	$8.26	$0.52	$8.78	$8.12	$0.52	$8.64	$0.14	$0.00	$0.14
B.1.4	Exchange Ports - 4-Wire DID Port	$35.06	$0.49	$35.55	$33.90	$0.49	$34.39	$1.16	$0.00	$1.16
B.1.5	Exchange Ports - 2-Wire ISDN Port	$15.73	$0.34	$16.07	$15.22	$0.34	$15.56	$0.51	$0.00	$0.51
B.1.6	Exchange Ports - 4-Wire ISDN DS1 Port	$74.26	$0.59	$74.85	$72.70	$0.59	$73.29	$1.56	$0.00	$1.56
B.1.7	Exchange Ports - 2-Wire Analog Line Port (PBX)	$1.46	$0.14	$1.60	$1.04	$0.14	$1.18	$0.42	$0.00	$0.42
B.1.8	Exchange Ports - Coin Port	$1.74	$0.18	$1.92	$1.31	$0.18	$1.49	$0.43	$0.00	$0.43
B.1.9	Exchange Ports - 2-Wire Analog Line Port (Res., Bus.) - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.10	Exchange Ports - 4-Wire Analog Voice Grade Port - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.11	Exchange Ports - 2-Wire DID Port - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.12	Exchange Ports - 4-Wire DID Port - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.13	Exchange Ports - 2-Wire ISDN Port - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.14	Exchange Ports - 4-Wire ISDN DS1 Port - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.15	Exchange Ports - 2-Wire Analog Line Port (PBX) - Incremental Cost - Manual Svc Order vs. Electronic									
B.1.16	Exchange Ports - Coin Port - Incremental Cost - Manual Svc Order vs. Electronic									
B.2	FEATURES									
B.2.1	Three-Way Calling	$0.2231	$0.0033	$0.2264	$0.2173	$0.00	$0.2206	$0.0058	$0.0000	$0.0058
B.2.2	Cust. Changeable Speed Calling	$0.0534	$0.0033	$0.0567	$0.0540	$0.00	$0.0573	-$0.0006	$0.0000	-$0.0006
B.2.3	Call Waiting	$0.0445	$0.0033	$0.0478	$0.0447	$0.00	$0.0480	-$0.0002	$0.0000	-$0.0002
B.2.4	Remote Activation of Call Forwarding	$0.1924	$0.0033	$0.1957	$0.1925	$0.00	$0.1958	-$0.0001	$0.0000	-$0.0001
B.2.5	Cancel Call Waiting	$0.0030	$0.0033	$0.0063	$0.0030	$0.00	$0.0063	$0.0000	$0.0000	$0.0000
B.2.6	Automatic Callback	$0.0848	$0.0033	$0.0881	$0.0848	$0.00	$0.0881	$0.0000	$0.0000	$0.0000
B.2.7	Automatic Recall	$0.0800	$0.0033	$0.0833	$0.0803	$0.00	$0.0836	-$0.0003	$0.0000	-$0.0003
B.2.8	Calling Number Delivery	$0.0503	$0.0033	$0.0536	$0.0502	$0.00	$0.0535	$0.0001	$0.0000	$0.0001
B.2.9	Calling Number Delivery Blocking	$0.0520	$0.0033	$0.0553	$0.0519	$0.00	$0.0552	$0.0001	$0.0000	$0.0001
B.2.10	Customer Originated Trace	$0.0326	$0.0033	$0.0359	$0.0326	$0.00	$0.0359	$0.0000	$0.0000	$0.0000
B.2.11	Selective Call Rejection	$0.0140	$0.0033	$0.0173	$0.0144	$0.00	$0.0177	-$0.0004	$0.0000	-$0.0004
B.2.12	Selective Call Forwarding	$0.0491	$0.0033	$0.0524	$0.0494	$0.00	$0.0527	-$0.0003	$0.0000	-$0.0003
B.2.13	Selective Call Acceptance	$0.0442	$0.0033	$0.0475	$0.0449	$0.00	$0.0482	-$0.0007	$0.0000	-$0.0007
B.2.15	Multiline Hunt Service	$0.0635	$0.0033	$0.0668	$0.0632	$0.00	$0.0665	$0.0003	$0.0000	$0.0003
B.2.16	Call Forwarding Variable	$0.0474	$0.0033	$0.0507	$0.0475	$0.00	$0.0508	-$0.0001	$0.0000	-$0.0001

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
B.2.17	Call Forwarding Busy Line	$0.0431	$0.0033	$0.0464	$0.0433	$0.00	$0.0466	-$0.0002	$0.0000	-$0.0002
B.2.18	Call Forwarding Don't Answer All Calls	$0.0431	$0.0033	$0.0464	$0.0434	$0.00	$0.0467	-$0.0003	$0.0000	-$0.0003
B.2.19	Remote Call Forwarding	$0.7397	$0.0033	$0.7430	$0.7293	$0.00	$0.7326	$0.0104	$0.0000	$0.0104
B.2.20	Call Transfer	$0.0621	$0.0033	$0.0654	$0.0618	$0.00	$0.0651	$0.0003	$0.0000	$0.0003
B.2.21	Call Hold	$0.1120	$0.0033	$0.1153	$0.1122	$0.00	$0.1155	-$0.0002	$0.0000	-$0.0002
B.2.22	Toll Restricted Service	$0.0474	$0.0033	$0.0507	$0.0474	$0.00	$0.0507	$0.0000	$0.0000	$0.0000
B.2.23	Msg. Waiting Indic. - Stutter Dial Tone	$0.0103	$0.0033	$0.0136	$0.0103	$0.00	$0.0136	$0.0000	$0.0000	$0.0000
B.2.24	Anonymous Call Rejection	$0.3111	$0.0033	$0.3144	$0.3093	$0.00	$0.3126	$0.0018	$0.0000	$0.0018
B.2.25	Shared Call Appearances of a DN	$0.0896	$0.0017	$0.0913	$0.0876	$0.00	$0.0893	$0.0020	$0.0000	$0.0020
B.2.26	Multiple Call Appearances	$0.0217	$0.0017	$0.0234	$0.0210	$0.00	$0.0227	$0.0007	$0.0000	$0.0007
B.2.27	ISDN Bridged Call Exclusion	$0.0003	$0.0017	$0.0020	$0.0003	$0.00	$0.0020	$0.0000	$0.0000	$0.0000
B.2.28	Call by Call Access	$3.46	$0.09	$3.55	$3.70	$0.09	$3.79	-$0.24	$0.00	-$0.24
B.2.29	Privacy Release	$0.0016	$0.0033	$0.0049	$0.0017	$0.00	$0.0050	-$0.0001	$0.0000	-$0.0001
B.2.30	Multi Appearance Directory Number Calls	$0.0281	$0.0033	$0.0314	$0.0295	$0.00	$0.0328	-$0.0014	$0.0000	-$0.0014
B.2.31	Make Set Busy	$0.0016	$0.0033	$0.0049	$0.0016	$0.00	$0.0049	$0.0000	$0.0000	$0.0000
B.2.32	Teen Service (Res. Dist. Alerting Svc.)	$0.1501	$0.0033	$0.1534	$0.1509	$0.00	$0.1542	-$0.0008	$0.0000	-$0.0008
B.2.33	Code Restriction and Diversion	$0.0460	$0.0033	$0.0493	$0.0460	$0.00	$0.0493	$0.0000	$0.0000	$0.0000
B.2.34	Call Park	$0.0467	$0.0033	$0.0500	$0.0467	$0.00	$0.0500	$0.0000	$0.0000	$0.0000
B.2.35	Automatic Line	$0.1095	$0.0033	$0.1128	$0.1098	$0.00	$0.1131	-$0.0003	$0.0000	-$0.0003
B.2.36	ISDN Message Waiting Indication-Lamp	$0.0022	$0.0017	$0.0039	$0.0022	$0.00	$0.0039	$0.0000	$0.0000	$0.0000
B.2.37	ISDN Feature Function Buttons									
B.2.39	Subsequent Ordering Charge - Electronic									
B.2.40	Subsequent Ordering Charge -Incremental Cost - Manual Svc Order vs. Electronic									
C.0	UNBUNDLED SWITCHING AND LOCAL INTERCONNECTION									
C.1	LOCAL SWITCHING									
C.1.1	End Office Switching Function, Per MOU	$0.0008041		$0.0008041	$1.33		$1.33	-$1.3291959		-$1.3291959
C.1.2	End Office Interoffice Trunk Port - Shared, Per MOU									
C.2	TANDEM SWITCHING									
C.2.1	Tandem Switching Function Per MOU	$0.0009778		$0.0009778	$1.61		$1.61	-$1.6090222		-$1.6090222
C.2.2	Tandem Interoffice Trunk Port - Shared, Per MOU									
D.0	UNBUNDLED TRANSPORT AND LOCAL INTERCONNECTION									
D.1	COMMON TRANSPORT									
D.1.1	Common Transport - Per Mile, Per MOU	$0.0000064		$0.00000640	$0.0000063		$0.0000063	$0.0000001		$0.0000001
D.1.2	Common Transport - Facilities Termination Per MOU	$0.0003871		$0.00038710	$0.0003817		$0.0003817	$0.0000054		$0.0000054
D.2	INTEROFFICE TRANSPORT - DEDICATED - VOICE GRADE									
D.2.1	Interoffice Transport - Dedicated - 2-Wire Voice Grade - Per Mile	$0.0174		$0.0174	$0.0173		$0.0173	$0.0001		$0.0001
D.2.2	Interoffice Transport - Dedicated - 2- Wire Voice Grade - Facility Termination	$17.93	$0.6505	$18.58	$17.68	$0.65	$18.33	$0.25	$0.00	$0.25
D.2.3	Interoffice Transport - Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic									
D.3	INTEROFFICE TRANSPORT - DEDICATED - DS0 - 56/64 KBPS									
D.3.1	Interoffice Transport - Dedicated - DS0 - Per Mile	$0.0174		$0.0174	$0.0173		$0.0173	$0.0001		$0.0001
D.3.2	Interoffice Transport - Dedicated - DS0 - Facility Termination	$17.33	$0.6505	$17.98	$17.09	$0.65	$17.74	$0.24	$0.00	$0.24
D.3.3	Interoffice Transport - DSO - Incremental Cost - Manual Svc Order vs. Electronic									
D.4	INTEROFFICE TRANSPORT - DEDICATED - DS1									
D.4.1	Interoffice Transport - Dedicated - DS1 - Per Mile	$0.3562		$0.3562	$0.3525		$0.3525	$0.00		$0.00

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
D.4.2	Interoffice Transport - Dedicated - DS1 - Facility Termination	$76.91	$0.9498	$77.86	$75.83	$0.95	$76.78	$1.08	$0.00	$1.08
D.4.3	Interoffice Transport - DS1 - Incremental Cost - Manual Svc Order vs. Electronic									
D.5	LOCAL CHANNEL - DEDICATED									
D.5.1	Local Channel - Dedicated - 2-Wire Voice Grade	$14.63	$4.6085	$19.24	$14.41	$4.61	$19.02	$0.22	$0.00	$0.22
D.5.2	Local Channel - Dedicated - 4-Wire Voice Grade	$15.67	$4.7019	$20.37	$15.44	$4.70	$20.14	$0.23	$0.00	$0.23
D.5.3	Local Channel - Dedicated - DS1	$38.59	$2.2092	$40.80	$38.06	$2.21	$40.27	$0.53	$0.00	$0.53
D.5.4	Local Channel - Dedicated - 2Wire Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic									
D.5.5	Local Channel - Dedicated - 4Wire Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic									
D.5.6	Local Channel - Dedicated - DS1 -Incremental Cost - Manual Svc Order vs. Electronic									
E.0	SIGNALING NETWORK, DATA BASES, & SERVICE MANAGEMENT SYS.									
E.1	800 ACCESS TEN DIGIT SCREENING									
E.1.1	800 Access Ten Digit Screening, Per Call	$0.0005192		$0.0005192	$0.0005121		$0.0005121	$0.0000		$0.0000
E.1.2	800 Access Ten Digit Screening, Reservation Charge Per 800 Number Reserved									
E.1.3	800 Access Ten Digit Screening, Per 800 # Established W/O POTS Translations									
E.1.4	800 Access Ten Digit Screening, Per 800 # Established With POTS Translations									
E.1.5	800 Access Ten Digit Screening, Customized Area of Service Per 800 Number									
E.1.6	800 Access Ten Digit Screening, Multiple InterLATA CXR Routing Per CXR Requested Per 800 #									
E.1.7	800 Access Ten Digit Screening, Change Charge Per Request									
E.1.8	800 Access Ten Digit Screening, Call Handling and Destination Features									
E.1.9	800 Access Ten Digit Scrng, Reserv Chrg Per 800 # Reserved-Incrm Cost-Manual Svc Order vs. Electr									
E.1.10	800 Access Ten Digit Scrng, Per 800 # Est'd w/o POTS Transl.-Incrm Cost-Manual Svc Order vs. Electr									
E.1.11	800 Access Ten Digit Scrng, Per 800 # Est'd w/ POTS Transl.-Incrm Cost-Manual Svc Order vs. Electr									
E.1.12	800 Access Ten Digit Scrng, Chng Chrg/Request-Incrm Cost-Manual Svc Order vs. Electr									
E.2	LINE INFORMATION DATA BASE ACCESS (LIDB)									
E.2.1	LIDB Common Transport Per Query	$0.0000354		$0.0000354	$0.0000342		$0.0000342	$0.0000012		$0.0000012
E.2.2	LIDB Validation Per Query	$0.0117403		$0.0117403	$0.0117328		$0.0117328	$0.0000075		$0.0000075
E.2.3	LIDB Originating Point Code Establishment or Change									
E.2.4	LIDB - Incremental Cost - Manual Svc Order vs. Electronic									
E.3	CCS7 SIGNALING TRANSPORT									
E.3.1	CCS7 Signaling Connection, Per 56Kbps Facility	$17.84		$17.84	$17.59		$17.59	$0.25		$0.25
E.3.2	CCS7 Signaling Termination, Per STP Port	$138.41		$138.41	$133.93		$133.93	$4.48		$4.48
E.3.3	CCS7 Signaling Usage, Per Call Setup Message	$0.0000373		$0.0000373	$0.0000362		$0.0000362	$0.0000011		$0.0000011
E.3.4	CCS7 Signaling Usage, Per TCAP Message	$0.0000916		$0.0000916	$0.0000890		$0.0000890	$0.0000026		$0.0000026
E.3.5	CCS7 Signaling Usage Surrogate, Per 56Kbps Facility, Per LATA Per Month	$352.30		$352.30	$341.95		$341.95	$10.35		$10.35
E.3.6	CCS7 - Incremental Cost - Manual Svc Order vs. Electronic									
F.0	OPERATIONAL SUPPORT SYSTEMS									
F.1	OPERATIONAL SUPPORT SYSTEMS									
F.1.1	OSS Electronic Interface	$7.07		$7.07				$7.07		$7.07
F.1.2	OSS OLEC Daily Usage File: Recording, per Message	$0.0000044		$0.0000044	$0.0000042		$0.0000042	$0.0000002		$0.0000002
F.1.3	OSS OLEC Daily Usage File: Message Distribution, Per Message	$0.0027366		$0.0027366	$0.0027365		$0.0027365	$0.0000001		$0.0000001
F.1.4	OSS OLEC Daily Usage File: Message Distribution, Per Magnetic Tape Provisioned	$52.75		$52.75	$52.75		$52.75	$0.00		$0.00
F.1.5	OSS OLEC Daily Usage File: Data Transmission (CONNECT:DIRECT), Per Message	$0.0000339		$0.0000339	$0.0000339		$0.0000339	$0.0000000		$0.0000000
G.0	OPERATOR SERVICES AND DIRECTORY ASSISTANCE									

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
G.1	OPERATOR CALL PROCESSING									
G.1.1	Oper. Call Processing - Oper. Provided Cost Per Min. - Using BST LIDB	$1.08		$1.08	$1.07		$1.07	$0.01		$0.01
G.1.2	Oper. Call Processing - Oper. Provided Cost Per Min. - Using Foreign LIDB	$1.13		$1.13	$1.12		$1.12	$0.01		$0.01
G.1.3	Oper. Call Processing - Fully Automated Cost per Call - Using BST LIDB	$0.1010353		$0.1010353	$0.1003301		$0.1003301	$0.0007052		$0.0007052
G.1.4	Oper. Call Processing - Fully Automated Cost per Call - Using Foreign LIDB	$0.1228180		$0.1228180	$0.1221180		$0.1221180	$0.0007000		$0.0007000
G.1.5	Loading Expense Per Announcement For Branded Announcement									
G.1.6	Recording Expense Per Announcement For Branded Announcement									
G.2	INWARD OPERATOR SERVICES									
G.2.1	Inward Operator Services - Verification, Per Minute	$1.03		$1.03	$1.03		$1.03	$0.00		$0.00
G.2.2	Inward Operator Services - Verification and Emergency Interrupt, Per Minute	$1.03		$1.03	$1.03		$1.03	$0.00		$0.00
G.3	DIRECTORY ASSISTANCE CALL COMPLETION ACCESS SERVICE (DACC)									
G.3.1	Directory Assistance Call Completion Access Service (DACC), Per Call Attempt	$0.0364771		$0.0364771	$0.0363367		$0.0363367	$0.0001404		$0.0001404
G.4	NUMBER SERVICES INTERCEPT ACCESS SERVICE									
G.4.1	Number Services Intercept Per Query	$0.0177930		$0.0177930	$0.0175917		$0.0175917	$0.0002013		$0.0002013
G.5	DIRECTORY ASSISTANCE ACCESS SERVICE									
G.5.1	Directory Assistance Access Service Calls, Cost Per Call	$0.2286787		$0.2286787	$0.2283419		$0.2283419	$0.0003368		$0.0003368
G.5.2	Loading Expense Per Announcement For Branded Announcement									
G.5.3	Recording Expense Per Announcement For Branded Announcement									
G.6	DIRECTORY TRANSPORT									
G.6.1	Directory Transport - Local Channel DS1	$38.59	$2.2092	$40.80	$38.06	$2.21	$40.27	$0.53	$0.00	$0.53
G.6.2	Directory Transport - DS1 Level Interoffice Per Mile	$0.3562		$0.3562	$0.3525		$0.3525	$0.00		$0.00
G.6.3	Directory Transport - DS1 Level Interoffice Per Facility Termination	$76.91	$0.9498	$77.86	$75.83	$0.95	$76.78	$1.08	$0.00	$1.08
G.6.4	Switched Common Transport Per DA Access Service Per Call	$0.0002710		$0.0002710	$0.0002672		$0.0002672	$0.0000038		$0.0000038
G.6.5	Switched Common Transport Per DA Access Service Per Call Per Mile	$0.0000165		$0.0000165	$0.0000160		$0.0000160	$0.0000005		$0.0000005
G.6.6	Access Tandem Switching Per DA Access Service Per Call	$0.0001875		$0.0001875	$0.0001808		$0.0001808	$0.0000067		$0.0000067
G.6.7	Directory Transport - DA Interconnection Per DA Service Call									
G.6.8	Directory Transport - Installation NRC, Per Trunk or Signaling Connection									
G.6.9	Directory Transport Local Channel DS1 - Incremental Cost - Manual Service Order vs. Electronic									
G.6.10	Directory Transport Interoffice DS1 - Incremental Cost - Manual Service Order vs. Electronic									
G.7	DIRECTORY ASSISTANCE DATA BASE SERVICE (DADS)									
G.7.1	Directory Assistance Data Base Service Cost Per Listing	$0.0485		$0.0485	$0.0485		$0.0485	$0.0000		$0.0000
G.7.2	Directory Assistance Data Base Service, Monthly Recurring Cost	$104.13		$104.13	$104.13		$104.13	$0.00		$0.00
G.8	DIRECT ACCESS TO DIRECTORY ASSISTANCE									
G.8.1	Direct Access to Directory Assistance Service, Per Month	$5,729		$5,729.00	$5,729		$5,729.00	$0.00		$0.00
G.8.2	Direct Access to Directory Assistance Service, Per Query	$0.0493769		$0.0493769	$0.0493078		$0.0493078	$0.0000691		$0.0000691
G.8.3	Direct Access to Directory Assistance Service, Service Establishment Charge									
G.9	SELECTIVE ROUTING (INTERIM SOLUTION LINE CLASS CODES)									
G.9.1	Selective Routing Per Unique Line Class Code Per Request Per Switch									
G.9.2	Selective Routing - Incremental Cost - Manual Svc Order vs. Electronic									
H.0	COLLOCATION									
H.1	PHYSICAL COLLOCATION									
H.1.1	Physical Collocation - Application Cost									

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
H.1.2	Physical Collocation - Space Preparation	ICB		ICB	ICB		ICB			
H.1.3	Physical Collocation - Space Construction Cost Per First 100 Sq. Ft.	$138.54		$138.54	$137.82		$137.82	$0.72		$0.72
H.1.4	Physical Collocation - Space Construction Cost Per Add'l 50 Sq. Ft.	$16.07		$16.07	$15.99		$15.99	$0.08		$0.08
H.1.5	Physical Collocation - Cable Installation Cost Per Cable									
H.1.6	Physical Collocation - Floor Space, Per Sq. Ft.	$3.91		$3.91	$3.89		$3.89	$0.02		$0.02
H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable	$20.43		$20.43	$20.14		$20.14	$0.29		$0.29
H.1.8	Physical Collocation - Power, Per Ampere	$6.79		$6.79	$6.67		$6.67	$0.12		$0.12
H.1.9	Physical Collocation - 2-wire Cross Connects	$0.3082	$0.4823	$0.7905	$0.3039	$0.48	$0.7862	$0.0043	$0.0000	$0.0043
H.1.10	Physical Collocation - 4-wire Cross Connects	$0.6164	$0.3994	$1.0158	$0.6078	$0.40	$1.0072	$0.0086	$0.0000	$0.0086
H.1.11	Physical Collocation - DS1 Cross Connects	$2.28	$0.3810	$2.66	$2.25	$0.38	$2.63	$0.03	$0.00	$0.03
H.1.12	Physical Collocation - DS3 Cross Connects	$41.62	$0.3810	$42.00	$41.03	$0.38	$41.41	$0.59	$0.00	$0.59
H.1.13	Physical Collocation - 2-Wire POT Bay	$0.0921		$0.0921	$0.0908		$0.0908	$0.0013		$0.0013
H.1.14	Physical Collocation - 4-Wire POT Bay	$0.1843		$0.1843	$0.1817		$0.1817	$0.0026		$0.0026
H.1.15	Physical Collocation - DS1 POT Bay	$0.7606		$0.7606	$0.7500		$0.7500	$0.0106		$0.0106
H.1.16	Physical Collocation - DS3 POT Bay	$4.77		$4.77	$4.71		$4.71	$0.06		$0.06
H.1.17	Physical Collocation - Security Escort - Basic, Per Half Hour									
H.1.18	Physical Collocation - Security Escort - Overtime, Per Half Hour									
H.1.19	Physical Collocation - Security Escort - Premium, Per Half Hour									
H.1.20	Physical Collocation - 2-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic									
H.1.21	Physical Collocation - 4-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic									
H.1.22	Physical Collocation -DS1/DS3 Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic									
H.2	VIRTUAL COLLOCATION									
H.2.1	Virtual Collocation - Application Cost									
H.2.2	Virtual Collocation - Cable Installation Cost Per Cable									
H.2.3	Virtual Collocation - Floor Space Per Sq. Ft.	$3.91		$3.91	$3.89		$3.89	$0.02		$0.02
H.2.4	Virtual Collocation - Floor Space Power, Per Ampere	$6.79		$6.79	$6.67		$6.67	$0.12		$0.12
H.2.5	Virtual Collocation - Cable Support Structure, Per Entrance Cable	$17.87		$17.87	$17.62		$17.62	$0.25		$0.25
H.2.6	Virtual Collocation - 2-wire Cross Connects	$0.0865	$0.4823	$0.5688	$0.0853	$0.48	$0.5676	$0.0012	$0.0000	$0.0012
H.2.7	Virtual Collocation - 4-wire Cross Connects	$0.1729	$0.3994	$0.5723	$0.1705	$0.40	$0.5699	$0.0024	$0.0000	$0.0024
H.2.8	Virtual Collocation - DS1 Cross Connects	$0.9380	$0.3810	$1.3190	$0.9249	$0.38	$1.3059	$0.0131	$0.0000	$0.0131
H.2.9	Virtual Collocation - DS3 Cross Connects	$11.94	$0.3810	$12.32	$11.77	$0.38	$12.15	$0.17	$0.00	$0.17
H.2.10	Virtual Collocation - Security Escort - Basic, Per Half Hour									
H.2.11	Virtual Collocation - Security Escort - Overtime, Per Half Hour									
H.2.12	Virtual Collocation - Security Escort - Premium, Per Half Hour									
H.2.13	Virtual Collocation - 2-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic									
H.2.14	Virtual Collocation - 4-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic									
H.2.15	Virtual Collocation -DS1/DS3 Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic									
I.0	SERVICE PROVIDER NUMBER PORTABILITY									
I.1	SERVICE PROVIDER NUMBER PORTABILITY - RCF									
I.1.1	Service Provider Number Portability - RCF, Per Number Ported	$1.24	$0.00	$1.24	$1.22	$0.00	$1.22	$0.02	$0.00	$0.02
I.1.2	Service Provider Number Portability - RCF, Per Additional Path	$0.1514		$0.1514	$0.1479		$0.1479	$0.0035		$0.0035
I.1.3	Service Provider Number Portability - RCF, Per Service Order, Per Location									
I.2	SERVICE PROVIDER NUMBER PORTABILITY - DID									
I.2.1	Service Provider Number Portability - DID, Per Number Ported, Residence									
I.2.2	Service Provider Number Portability - DID, Per Number Ported, Business									
I.2.3	Service Provider Number Portability - DID, Per Service Order, Per Location									
I.2.4	Service Provider Number Portability - DID, Per Trunk Termination, Initial	$7.58	$0.2799	$7.86	$7.45	$0.28	$7.73	$0.13	$0.00	$0.13

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Recurring plus Testing

	Cost Element	Ordered 11-3-99 Recurring	Testing Expressed as Recurring cost	11-3-99 Recurring Plus testing	Filed 2-24-99 Recurring	Testing Expressed as Recurring cost	2-24-99 Recurring Plus testing	Difference: Recurring	Difference: Testing Expressed as Recurring cost	Difference: Recurring Plus testing
I.2.5	Service Provider Number Portability - DID, Per Trunk Termination, Subsequent	$7.58	$0.1051	$7.69	$7.45	$0.11	$7.56	$0.13	$0.00	$0.13
I.3	Service Provider Number Portability - Manual Svc Order vs. Electronic									
I.3.1	Service Provider Number Portability - Incremental Cost - Manual Svc Order vs. Electronic									
I.4	SERVICE PROVIDER NUMBER PORTABILITY RIPH									
I.4.1	Service Provider Number Portability - RIPH, Functionality, Per Central office									
I.4.2	Service Provider Number Portability - RIPH, Functionality, Per Rearrangement									
I.5	SERVICE PROVIDER NUMBER PORTABILITY RI-PH									
I.5.1	Service Provider Number Portability - RI-PH, Per Number Ported	$0.8660	$0.0017	$0.8677	$0.8492	$0.00	$0.8509	$0.0168	$0.0000	$0.0168
I.5.2	SPNP - RIPH, Per Service Order, Per Location									
J.0	OTHER									
J.1	DARK FIBER									
J.1.1	Dark Fiber, Per Four Fiber Strands, Per Route Mile or Fraction Thereof	$49.30	$3.9252	$53.23	$48.74	$3.93	$52.67	$0.56	$0.00	$0.56
J.2	ACCESS TO POLES, DUCTS, CONDUITS AND RIGHTS OF WAY									
J.2.1	Access to Poles Per Pole, Per Foot, Per Year	$20.54		$20.54	$20.29		$20.29	$0.25		$0.25
J.2.2	Access to Conduits, Per Foot, Per Year	$0.5370432		$0.5370432	$0.5360767		$0.5360767	$0.0009665		$0.0009665
J.2.3	Access to Innerduct, Per Foot, Per Year	$0.4477645		$0.4477645	$0.4469587		$0.4469587	$0.0008058		$0.0008058
K.0	ADVANCED INTELLIGENT NETWORK (AIN) SERVICES									
K.1	BellSouth AIN SMS Access Service									
K.1.1	AIN SMS Access Service - Service Establishment, Per State, Initial Setup									
K.1.2	AIN SMS Access Service - Port Connection - Dial/Shared Access									
K.1.3	AIN SMS Access Service - Port Connection - ISDN Access									
K.1.4	AIN SMS Access Service - User Identification Codes - Per User ID Code									
K.1.5	AIN SMS Access Service - Security Card, Per User ID Code, Initial or Replacement									
K.1.6	AIN SMS Access Service - Storage, Per Unit (100 Kilobytes)	$0.0024		$0.0024	$0.0023		$0.0023	$0.0001		$0.0001
K.1.7	AIN SMS Access Service - Session, Per Minute	$0.0820123		$0.0820123	$0.0790739		$0.0790739	$0.0029384		$0.0029384
K.1.8	AIN SMS Access Service - Company Performed Session, Per Minute	$2.27		$2.27	$2.27		$2.27	$0.00		$0.00
K.2	BellSouth AIN Toolkit Service									
K.2.1	AIN Toolkit Service - Service Establishment Charge, Per State, Initial Setup									
K.2.2	AIN Toolkit Service - Training Session, Per Customer									
K.2.3	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Term. Attempt									
K.2.4	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Off-Hook Delay									
K.2.5	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Off-Hook Immediate									
K.2.6	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, 10-Digit PODP									
K.2.7	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, CDP									
K.2.8	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Feature Code									
K.2.9	AIN Toolkit Service - Query Charge, Per Query	$0.0211882		$0.0211882	$0.0204385		$0.0204385	$0.0007497		$0.0007497
K.2.10	AIN Toolkit Service - Type 1 Node Charge, Per AIN Toolkit Subscription, Per Node, Per Query	$0.0054774		$0.0054774	$0.0052812		$0.0052812	$0.00		$0.00
K.2.11	AIN Toolkit Service - SCP Storage Charge, Per SMS Access Account, Per 100 Kilobytes	$1.50		$1.50	$1.45		$1.45	$0.05		$0.05
K.2.12	AIN Toolkit Service - Monthly report - Per AIN Toolkit Service Subscription	$17.39	$0.0387	$17.43	$17.39	$0.04	$17.43	$0.00	$0.00	$0.00
K.2.13	AIN Toolkit Service - Special Study - Per AIN Toolkit Service Subscription	$0.0837601	$0.0484	$0.1321116	$0.0837140	$0.05	$0.1320655	$0.0000461	$0.0000000	$0.0000461
K.2.14	AIN Toolkit Service - Call Event Report - Per AIN Toolkit Service Subscription	$17.31	$0.0387	$17.35	$17.31	$0.04	$17.35	$0.00	$0.00	$0.00
K.2.15	AIN Toolkit Service - Call Event Special Study - Per AIN Toolkit Service Subscription	$0.0027920	$0.0484	$0.0511435	$0.0027905	$0.05	$0.0511420	$0.0000015	$0.0000000	$0.0000015

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

	Cost Element	Non-Recurring Less Testing				Disconnect			
		Non Recurring	Non-recurring First	Non-recurring Additional	Non-recurring Initial	Non-recurring Subsequent	First	Additional	Initial	Subsequent
A.0	UNBUNDLED LOCAL LOOP									
A.1	2-WIRE ANALOG VOICE GRADE LOOP									
A.1.1	2-Wire Analog Voice Grade Loop - Service Level 1		$31.99	$20.02			$10.65	$1.41		
A.1.2	2-Wire Analog Voice Grade Loop - Service Level 2		$75.06	$48.20			$28.70	$17.64		
A.1.3	2-Wire Analog Voice Grade Loop - Service Level 1 - Manual Order Coordination		$36.52	$36.52			$9.18	$9.18		
A.1.4	2-Wire Analog Voice Grade Loop - Service Level 1 - Order Coordination for Specified Conversion Time		$34.29							
A.1.5	2-Wire Analog Voice Grade Loop - Service Level 2 - Order Coordination for Specified Conversion Time		$34.29							
A.2	SUB-LOOP 2-WIRE ANALOG									
A.2.1	Loop Feeder Per 2-Wire Analog Voice Grade Loop		$122.24	$85.05			$76.35	$39.16		
A.2.2	Loop Distribution Per 2-Wire Analog Voice Grade Loop		$148.84	$112.34			$73.14	$36.65		
A.2.3	Loop Concentration - Channelization System - (Outside C.O.)		$651.09	$283.42			$207.92	$50.94		
A.2.4	Loop Concentration - Remote Terminal Cabinet (Outside C.O.)									
A.2.5	Loop Concentration - Remote Channel Interface - 2-Wire Voice Grade (Outside C.O.)		$9.43	$9.40			$4.71	$4.70		
A.2.6	NID Per 2-Wire Analog Voice Grade Loop		$0.74							
A.2.7	Loop Concentration - Channelization System - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32			
A.2.8	Sub-Loop Feeder - Order Coordination for Specified Conversion Time		$34.29							
A.2.9	Sub-Loop Distribution - Order Coordination for Specified Conversion Time		$34.29							
A.3	LOOP CHANNELIZATION AND CO INTERFACE (INSIDE CO)									
A.3.1	Loop Channelization System - Digital Loop Carrier		$307.34	$74.37			$4.18			
A.3.2	CO Channel Interface--2-Wire Voice Grade		$9.57	$9.52			$8.66	$8.60		
A.3.3	Loop Concentration - Channelization System - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32			
A.4	4-WIRE ANALOG VOICE GRADE LOOP									
A.4.1	4-Wire Analog Voice Grade Loop		$122.76	$85.57			$76.35	$39.16		
A.4.2	NID Per 4-Wire Analog Voice Grade Loop		$0.74							
A.4.3	4-Wire Analog Voice Grade Loop - Order Coordination for Specified Conversion Time		$34.29							
A.5	2-WIRE ISDN DIGITAL GRADE LOOP									
A.5.1	2-Wire ISDN Digital Grade Loop		$142.76	$88.88			$76.35	$39.16		
A.5.2	NID Per 2-Wire ISDN Digital Grade Loop		$0.74							
A.5.3	2-Wire ISDN Digital Grade Loop - Order Coordination for Specified Conversion Time		$34.29							
A.6	2-WIRE ASYMMETRICAL DIGITAL SUBSCRIBER LINE (ADSL) COMPATIBLE LOOP									
A.6.1	2-Wire Asymmetrical Digital Subscriber Line (ADSL) Compatible Loop		$270.01	$234.63			$74.54	$39.14		
A.6.2	NID Per 2-Wire Asymmetrical Digital Subscriber Line (ADSL) Loop		$0.74							
A.6.3	2-Wire ADSL Loop - Order Coordination for Specified Conversion Time		$34.29							
A.7	2-WIRE HIGH BIT RATE DIGITAL SUBSCRIBER LINE (HDSL) COMPATIBLE LOOP									
A.7.1	2-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop		$270.01	$234.63			$74.54	$39.14		
A.7.2	NID Per 2-Wire High Bit Rate Digital Subscriber Line (HDSL) Loop		$0.74							
A.7.3	2-Wire HDSL Loop - Order Coordination for Specified Conversion Time		$34.29							
A.8	4-WIRE HIGH BIT RATE DIGITAL SUBSCRIBER LINE (HDSL) COMPATIBLE LOOP									
A.8.1	4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop		$279.60	$244.22			$74.54	$39.14		
A.8.2	NID Per 4-Wire High Bit Rate Digital Subscriber Line (HDSL) Loop		$0.74					$0.00		
A.8.3	4-Wire HDSL Loop - Order Coordination for Specified Conversion Time		$34.29							
A.9	4-WIRE DS1 DIGITAL LOOP									
A.9.1	4-Wire DS1 Digital Loop		$313.08	$219.72			$96.86	$40.45		
A.9.2	4-Wire DS1 Loop - Incremental Cost - Manual Svc Order vs. Electronic		$18.98	$8.43			$11.95			

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

		Non-Recurring Less Testing					Disconnect		
		Non Recurring	Non-recurring						
	Cost Element		First	Additional	Initial	Subsequent	First	Additional	Initial	Subsequent
A.9.3	4-Wire DS1 Loop - Order Coordination for Specified Conversion Time		$34.59							
A.10	4-WIRE 56 OR 64 KBPS DIGITAL GRADE LOOP									
A.10.1	4-Wire 56 or 64 Kbps Digital Grade Loop		$207.01	$141.38			$90.70	$44.18		
A.10.2	NID Per 4-Wire 56 or 64 Kbps Digital Grade Loop		$0.74							
A.10.3	4-Wire 56 or 64 Kbps Digital Grade Loop - Order Coordination for Specified Conversion Time		$34.29							
A.11	Unbundled Loops - Incremental Cost - Manual Svc Order vs. Electronic									
A.11.1	Unbundled 2-Wire Loops - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32			
A.11.2	Unbundled 4-Wire Loops (Excluding DS1) - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32			
A.11.3	NID Per 2-Wire Loops - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32			
A.11.4	NID Per 4-Wire Loops - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32			
B.0	UNBUNDLED LOCAL EXCHANGE PORTS AND FEATURES									
B.1	EXCHANGE PORTS									
B.1.1	Exchange Ports - 2-Wire Analog Line Port (Res., Bus.)		$9.93	$9.19			$3.66	$2.92		
B.1.2	Exchange Ports - 4-Wire Analog Voice Grade Port		$9.93	$9.19			$3.66	$2.92		
B.1.3	Exchange Ports - 2-Wire DID Port		$47.75	$47.01			$9.21	$8.47		
B.1.4	Exchange Ports - 4-Wire DID Port		$75.93	$38.15			$8.77	$8.04		
B.1.5	Exchange Ports - 2-Wire ISDN Port		$30.23	$29.49			$4.10	$4.10		
B.1.6	Exchange Ports - 4-Wire ISDN DS1 Port		$148.66	$147.18			$38.46	$36.98		
B.1.7	Exchange Ports - 2-Wire Analog Line Port (PBX)		$9.93	$9.19			$3.66	$2.92		
B.1.8	Exchange Ports - Coin Port		$9.93	$9.19			$3.66	$2.92		
B.1.9	Exchange Ports - 2-Wire Analog Line Port (Res., Bus.) - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32	$1.40		
B.1.10	Exchange Ports - 4-Wire Analog Voice Grade Port - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32	$1.40		
B.1.11	Exchange Ports - 2-Wire DID Port - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32	$1.40		
B.1.12	Exchange Ports - 4-Wire DID Port - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32	$1.40		
B.1.13	Exchange Ports - 2-Wire ISDN Port - Incremental Cost - Manual Svc Order vs. Electronic		$41.43	$42.17			$9.80	$9.80		
B.1.14	Exchange Ports - 4-Wire ISDN DS1 Port - Incremental Cost - Manual Svc Order vs. Electronic		$40.69	$42.17			$9.07	$10.54		
B.1.15	Exchange Ports - 2-Wire Analog Line Port (PBX) - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32	$1.40		
B.1.16	Exchange Ports - Coin Port - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.32	$1.40		
B.2	FEATURES									
B.2.1	Three-Way Calling	$0.73								
B.2.2	Cust. Changeable Speed Calling	$0.73								
B.2.3	Call Waiting	$0.73								
B.2.4	Remote Activation of Call Forwarding	$0.73								
B.2.5	Cancel Call Waiting	$0.73								
B.2.6	Automatic Callback	$0.73								
B.2.7	Automatic Recall	$0.73								
B.2.8	Calling Number Delivery	$0.73								
B.2.9	Calling Number Delivery Blocking	$0.73								
B.2.10	Customer Originated Trace	$0.73								
B.2.11	Selective Call Rejection	$0.73								
B.2.12	Selective Call Forwarding	$0.73								
B.2.13	Selective Call Acceptance	$0.73								
B.2.15	Multiline Hunt Service	$0.73								
B.2.16	Call Forwarding Variable	$0.73								
B.2.17	Call Forwarding Busy Line	$0.73								
B.2.18	Call Forwarding Don't Answer All Calls	$0.73								
B.2.19	Remote Call Forwarding	$0.73								
B.2.20	Call Transfer	$0.73								
B.2.21	Call Hold	$0.73								
B.2.22	Toll Restricted Service	$0.73								

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

		Non-Recurring Less Testing							
		Non Recurring	Non-recurring				Disconnect		
	Cost Element		First	Additional	Initial	Subsequent	First	Additional	Initial	Subsequent
B.2.23	Msg. Waiting Indic. - Stutter Dial Tone	$0.73							
B.2.24	Anonymous Call Rejection	$0.73							
B.2.25	Shared Call Appearances of a DN	$0.73							
B.2.26	Multiple Call Appearances	$0.73							
B.2.27	ISDN Bridged Call Exclusion	$0.73							
B.2.28	Call by Call Access	$20.46							
B.2.29	Privacy Release	$0.73							
B.2.30	Multi Appearance Directory Number Calls	$0.73							
B.2.31	Make Set Busy	$0.73							
B.2.32	Teen Service (Res. Dist. Alerting Svc.)	$0.73							
B.2.33	Code Restriction and Diversion	$0.73							
B.2.34	Call Park	$0.73							
B.2.35	Automatic Line	$0.73							
B.2.36	ISDN Message Waiting Indication-Lamp	$0.73							
B.2.37	ISDN Feature Function Buttons	$0.73							
B.2.39	Subsequent Ordering Charge - Electronic		$0.74						
B.2.40	Subsequent Ordering Charge -Incremental Cost - Manual Svc Order vs. Electronic		$2.77	$0.70			$1.37		
C.0	UNBUNDLED SWITCHING AND LOCAL INTERCONNECTION								
C.1	LOCAL SWITCHING								
C.1.1	End Office Switching Function, Per MOU								
C.1.2	End Office Interoffice Trunk Port - Shared, Per MOU								
C.2	TANDEM SWITCHING								
C.2.1	Tandem Switching Function Per MOU								
C.2.2	Tandem Interoffice Trunk Port - Shared, Per MOU								
D.0	UNBUNDLED TRANSPORT AND LOCAL INTERCONNECTION								
D.1	COMMON TRANSPORT								
D.1.1	Common Transport - Per Mile, Per MOU								
D.1.2	Common Transport - Facilities Termination Per MOU								
D.2	INTEROFFICE TRANSPORT - DEDICATED - VOICE GRADE								
D.2.1	Interoffice Transport - Dedicated - 2-Wire Voice Grade - Per Mile								
D.2.2	Interoffice Transport - Dedicated - 2- Wire Voice Grade - Facility Termination		$55.39	$17.37			$27.96	$3.51		
D.2.3	Interoffice Transport - Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$21.09			$9.80	$10.54		
D.3	INTEROFFICE TRANSPORT - DEDICATED - DS0 - 56/64 KBPS								
D.3.1	Interoffice Transport - Dedicated - DS0 - Per Mile								
D.3.2	Interoffice Transport - Dedicated - DS0 - Facility Termination		$55.39	$17.37			$27.96	$3.51		
D.3.3	Interoffice Transport - DSO - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$21.09			$9.80	$10.54		
D.4	INTEROFFICE TRANSPORT - DEDICATED - DS1								
D.4.1	Interoffice Transport - Dedicated - DS1 - Per Mile								
D.4.2	Interoffice Transport - Dedicated - DS1 - Facility Termination		$112.40	$76.27			$19.55	$14.99		
D.4.3	Interoffice Transport - DS1 - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$21.09			$9.80	$10.54		
D.5	LOCAL CHANNEL - DEDICATED								
D.5.1	Local Channel - Dedicated - 2-Wire Voice Grade		$199.33	$24.16			$54.81	$4.80		
D.5.2	Local Channel - Dedicated - 4-Wire Voice Grade		$201.53	$24.83			$55.52	$5.51		
D.5.3	Local Channel - Dedicated - DS1		$277.35	$233.26			$33.18	$22.30		
D.5.4	Local Channel - Dedicated - 2Wire Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.30			
D.5.5	Local Channel - Dedicated - 4Wire Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic		$20.35	$10.54			$13.30			

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

		Non-Recurring Less Testing							
		Non Recurring	Non-recurring				Disconnect		
	Cost Element		First	Additional	Initial	Subsequent	First	Additional	Initial	Subsequent
D.5.6	Local Channel - Dedicated - DS1 -Incremental Cost - Manual Svc Order vs. Electronic		$45.68	$1.76			$21.75	$1.76		
E.0	SIGNALING NETWORK, DATA BASES, & SERVICE MANAGEMENT SYS.									
E.1	800 ACCESS TEN DIGIT SCREENING									
E.1.1	800 Access Ten Digit Screening, Per Call									
E.1.2	800 Access Ten Digit Screening, Reservation Charge Per 800 Number Reserved		$5.21	$0.76						
E.1.3	800 Access Ten Digit Screening, Per 800 # Established W/O POTS Translations		$11.47	$1.46			$7.34	$0.7602		
E.1.4	800 Access Ten Digit Screening, Per 800 # Established With POTS Translations		$11.47	$1.46			$7.34	$0.7602		
E.1.5	800 Access Ten Digit Screening, Customized Area of Service Per 800 Number		$4.47	$2.24						
E.1.6	800 Access Ten Digit Screening, Multiple InterLATA CXR Routing Per CXR Requested Per 800 #		$5.23	$3.00						
E.1.7	800 Access Ten Digit Screening, Change Charge Per Request		$5.97	$0.76						
E.1.8	800 Access Ten Digit Screening, Call Handling and Destination Features	$4.47								
E.1.9	800 Access Ten Digit Scrng, Reserv Chrg Per 800 # Reserved-Incrm Cost-Manual Svc Order vs. Electr		$20.35							
E.1.10	800 Access Ten Digit Scrng, Per 800 # Est'd w/o POTS Transl.-Incrm Cost-Manual Svc Order vs. Electr		$20.35				$13.28			
E.1.11	800 Access Ten Digit Scrng, Per 800 # Est'd w/ POTS Transl.-Incrm Cost-Manual Svc Order vs. Electr		$20.35				$13.28			
E.1.12	800 Access Ten Digit Scrng, Chng Chrg/Request-Incrm Cost-Manual Svc Order vs. Electr		$20.35							
E.2	LINE INFORMATION DATA BASE ACCESS (LIDB)									
E.2.1	LIDB Common Transport Per Query									
E.2.2	LIDB Validation Per Query									
E.2.3	LIDB Originating Point Code Establishment or Change	$49.03								
E.2.4	LIDB - Incremental Cost - Manual Svc Order vs. Electronic	$20.35								
E.3	CCS7 SIGNALING TRANSPORT									
E.3.1	CCS7 Signaling Connection, Per 56Kbps Facility	$130.84								
E.3.2	CCS7 Signaling Termination, Per STP Port									
E.3.3	CCS7 Signaling Usage, Per Call Setup Message									
E.3.4	CCS7 Signaling Usage, Per TCAP Message									
E.3.5	CCS7 Signaling Usage Surrogate, Per 56Kbps Facility, Per LATA Per Month									
E.3.6	CCS7 - Incremental Cost - Manual Svc Order vs. Electronic	$20.35								
F.0	OPERATIONAL SUPPORT SYSTEMS									
F.1	OPERATIONAL SUPPORT SYSTEMS									
F.1.1	OSS Electronic Interface		$2.76							
F.1.2	OSS OLEC Daily Usage File: Recording, per Message									
F.1.3	OSS OLEC Daily Usage File: Message Distribution, Per Message									
F.1.4	OSS OLEC Daily Usage File: Message Distribution, Per Magnetic Tape Provisioned									
F.1.5	OSS OLEC Daily Usage File: Data Transmission (CONNECT:DIRECT), Per Message									
G.0	OPERATOR SERVICES AND DIRECTORY ASSISTANCE									
G.1	OPERATOR CALL PROCESSING									
G.1.1	Oper. Call Processing - Oper. Provided Cost Per Min. - Using BST LIDB									
G.1.2	Oper. Call Processing - Oper. Provided Cost Per Min. - Using Foreign LIDB									
G.1.3	Oper. Call Processing - Fully Automated Cost per Call - Using BST LIDB									
G.1.4	Oper. Call Processing - Fully Automated Cost per Call - Using Foreign LIDB									
G.1.5	Loading Expense Per Announcement For Branded Announcement									
G.1.6	Recording Expense Per Announcement For Branded Announcement				$240.71	$240.71				
					$1,555.00	$1,553.00			$7.03	$7.03
G.2	INWARD OPERATOR SERVICES									
G.2.1	Inward Operator Services - Verification, Per Minute									
G.2.2	Inward Operator Services - Verification and Emergency Interrupt, Per Minute									

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

		Non-Recurring Less Testing							
		Non Recurring	Non-recurring				Disconnect		
	Cost Element		First	Additional	Initial	Subsequent	First	Additional	Initial	Subsequent
G.3	DIRECTORY ASSISTANCE CALL COMPLETION ACCESS SERVICE (DACC)									
G.3.1	Directory Assistance Call Completion Access Service (DACC), Per Call Attempt									
G.4	NUMBER SERVICES INTERCEPT ACCESS SERVICE									
G.4.1	Number Services Intercept Per Query									
G.5	DIRECTORY ASSISTANCE ACCESS SERVICE									
G.5.1	Directory Assistance Access Service Calls, Cost Per Call									
G.5.2	Loading Expense Per Announcement For Branded Announcement									
G.5.3	Recording Expense Per Announcement For Branded Announcement				$240.71	$240.71				
					$1,555.00	$1,553.00			$7.03	$7.03
G.6	DIRECTORY TRANSPORT									
G.6.1	Directory Transport - Local Channel DS1									
G.6.2	Directory Transport - DS1 Level Interoffice Per Mile		$277.35	$233.26			$33.18	$22.30		
G.6.3	Directory Transport - DS1 Level Interoffice Per Facility Termination									
G.6.4	Switched Common Transport Per DA Access Service Per Call		$112.40	$76.27			$19.55	$14.99		
G.6.5	Switched Common Transport Per DA Access Service Per Call Per Mile									
G.6.6	Access Tandem Switching Per DA Access Service Per Call									
G.6.7	Directory Transport - DA Interconnection Per DA Service Call									
G.6.8	Directory Transport - Installation NRC, Per Trunk or Signaling Connection									
G.6.9	Directory Transport Local Channel DS1 - Incremental Cost - Manual Service Order vs. Electronic		$204.62	$4.43			$136.09	$4.43		
G.6.10	Directory Transport Interoffice DS1 - Incremental Cost - Manual Service Order vs. Electronic		$45.68	$1.76			$21.75	$1.76		
			$20.35	$21.09			$9.80	$10.54		
G.7	DIRECTORY ASSISTANCE DATA BASE SERVICE (DADS)									
G.7.1	Directory Assistance Data Base Service Cost Per Listing									
G.7.2	Directory Assistance Data Base Service, Monthly Recurring Cost									
G.8	DIRECT ACCESS TO DIRECTORY ASSISTANCE									
G.8.1	Direct Access to Directory Assistance Service, Per Month									
G.8.2	Direct Access to Directory Assistance Service, Per Query									
G.8.3	Direct Access to Directory Assistance Service, Service Establishment Charge	$789.74								
G.9	SELECTIVE ROUTING (INTERIM SOLUTION LINE CLASS CODES)									
G.9.1	Selective Routing Per Unique Line Class Code Per Request Per Switch	$179.60								
G.9.2	Selective Routing - Incremental Cost - Manual Svc Order vs. Electronic	$20.35								
H.0	COLLOCATION									
H.1	PHYSICAL COLLOCATION									
H.1.1	Physical Collocation - Application Cost									
H.1.2	Physical Collocation - Space Preparation	$5,117.00								
H.1.3	Physical Collocation - Space Construction Cost Per First 100 Sq. Ft.									
H.1.4	Physical Collocation - Space Construction Cost Per Add'l 50 Sq. Ft.									
H.1.5	Physical Collocation - Cable Installation Cost Per Cable									
H.1.6	Physical Collocation - Floor Space, Per Sq. Ft.	$1,749.00								
H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable									
H.1.8	Physical Collocation - Power, Per Ampere									
H.1.9	Physical Collocation - 2-wire Cross Connects									
H.1.10	Physical Collocation - 4-wire Cross Connects		$11.62	$9.90			$10.38	$8.66		
H.1.11	Physical Collocation - DS1 Cross Connects		$11.81	$10.04			$10.44	$8.67		
H.1.12	Physical Collocation - DS3 Cross Connects		$32.22	$17.76			$10.46	$8.75		
H.1.13	Physical Collocation - 2-Wire POT Bay		$29.97	$16.30			$12.03	$8.99		
H.1.14	Physical Collocation - 4-Wire POT Bay									
H.1.15	Physical Collocation - DS1 POT Bay									
H.1.16	Physical Collocation - DS3 POT Bay									

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

		Non-Recurring Less Testing							
		Non Recurring	Non-recurring				Disconnect		
	Cost Element		First	Additional	Initial	Subsequent	First	Additional	Initial	Subsequent
H.1.17	Physical Collocation - Security Escort - Basic, Per Half Hour									
H.1.18	Physical Collocation - Security Escort - Overtime, Per Half Hour		$33.15	$20.44						
H.1.19	Physical Collocation - Security Escort - Premium, Per Half Hour		$41.50	$25.61						
H.1.20	Physical Collocation - 2-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic		$49.86	$30.79						
H.1.21	Physical Collocation - 4-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic		$2.07	$2.81			$0.6677	$1.41		
H.1.22	Physical Collocation -DS1/DS3 Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic		$2.07	$2.81			$0.6677	$1.41		
			$2.07	$2.81			$0.6677	$1.41		
H.2	VIRTUAL COLLOCATION									
H.2.1	Virtual Collocation - Application Cost									
H.2.2	Virtual Collocation - Cable Installation Cost Per Cable	$2,633.00								
H.2.3	Virtual Collocation - Floor Space Per Sq. Ft.	$1,749.00								
H.2.4	Virtual Collocation - Floor Space Power, Per Ampere									
H.2.5	Virtual Collocation - Cable Support Structure, Per Entrance Cable									
H.2.6	Virtual Collocation - 2-wire Cross Connects									
H.2.7	Virtual Collocation - 4-wire Cross Connects		$11.62	$9.90			$10.38	$8.66		
H.2.8	Virtual Collocation - DS1 Cross Connects		$11.81	$10.04			$10.44	$8.67		
H.2.9	Virtual Collocation - DS3 Cross Connects		$32.22	$17.76			$10.46	$8.75		
H.2.10	Virtual Collocation - Security Escort - Basic, Per Half Hour		$29.97	$16.30			$12.03	$8.99		
H.2.11	Virtual Collocation - Security Escort - Overtime, Per Half Hour		$33.15	$20.44						
H.2.12	Virtual Collocation - Security Escort - Premium, Per Half Hour		$41.50	$25.61						
H.2.13	Virtual Collocation - 2-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic		$49.86	$30.79						
H.2.14	Virtual Collocation - 4-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic		$2.07	$2.81			$0.6677	$1.41		
H.2.15	Virtual Collocation -DS1/DS3 Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic		$2.07	$2.81			$0.6677	$1.41		
			$2.07	$2.81			$0.6677	$1.41		
I.0	SERVICE PROVIDER NUMBER PORTABILITY									
I.1	SERVICE PROVIDER NUMBER PORTABILITY - RCF									
I.1.1	Service Provider Number Portability - RCF, Per Number Ported									
I.1.2	Service Provider Number Portability - RCF, Per Additional Path	$0.46								
I.1.3	Service Provider Number Portability - RCF, Per Service Order, Per Location									
			$0.74							
I.2	SERVICE PROVIDER NUMBER PORTABILITY - DID									
I.2.1	Service Provider Number Portability - DID, Per Number Ported, Residence									
I.2.2	Service Provider Number Portability - DID, Per Number Ported, Business	$0.94								
I.2.3	Service Provider Number Portability - DID, Per Service Order, Per Location	$0.94								
I.2.4	Service Provider Number Portability - DID, Per Trunk Termination, Initial		$0.74							
I.2.5	Service Provider Number Portability - DID, Per Trunk Termination, Subsequent	$129.66								
		$37.32								
I.3	Service Provider Number Portability - Manual Svc Order vs. Electronic									
I.3.1	Service Provider Number Portability - Incremental Cost - Manual Svc Order vs. Electronic									
			$20.35	$21.09			$13.32	$14.06		
I.4	SERVICE PROVIDER NUMBER PORTABILITY RIPH									
I.4.1	Service Provider Number Portability - RIPH, Functionality, Per Central office									
I.4.2	Service Provider Number Portability - RIPH, Functionality, Per Rearrangement	$180.61								
		$68.83								
I.5	SERVICE PROVIDER NUMBER PORTABILITY RI-PH									
I.5.1	Service Provider Number Portability - RI-PH, Per Number Ported									
I.5.2	SPNP - RIPH, Per Service Order, Per Location	$0.34								
			$0.74							
J.0	OTHER									
J.1	DARK FIBER									
J.1.1	Dark Fiber, Per Four Fiber Strands, Per Route Mile or Fraction Thereof									
			$1,219.22	$169.75			$453.22	$339.34		
J.2	ACCESS TO POLES, DUCTS, CONDUITS AND RIGHTS OF WAY									

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee Ordered Changes Order dated November 3, 1999
Nonrecurring plus disconnect

	Cost Element	Non-Recurring Less Testing					Disconnect			
		Non Recurring	Non-recurring First	Non-recurring Additional	Non-recurring Initial	Non-recurring Subsequent	First	Additional	Initial	Subsequent
J.2.1	Access to Poles Per Pole, Per Foot, Per Year									
J.2.2	Access to Conduits, Per Foot, Per Year									
J.2.3	Access to Innerduct, Per Foot, Per Year									
K.0	ADVANCED INTELLIGENT NETWORK (AIN) SERVICES									
K.1	BellSouth AIN SMS Access Service									
K.1.1	AIN SMS Access Service - Service Establishment, Per State, Initial Setup									
K.1.2	AIN SMS Access Service - Port Connection - Dial/Shared Access	$135.56								
K.1.3	AIN SMS Access Service - Port Connection - ISDN Access	$41.75								
K.1.4	AIN SMS Access Service - User Identification Codes - Per User ID Code	$41.75								
K.1.5	AIN SMS Access Service - Security Card, Per User ID Code, Initial or Replacement	$96.63								
K.1.6	AIN SMS Access Service - Storage, Per Unit (100 Kilobytes)	$113.67								
K.1.7	AIN SMS Access Service - Session, Per Minute									
K.1.8	AIN SMS Access Service - Company Performed Session, Per Minute									
K.2	BellSouth AIN Toolkit Service									
K.2.1	AIN Toolkit Service - Service Establishment Charge, Per State, Initial Setup									
K.2.2	AIN Toolkit Service - Training Session, Per Customer	$132.04								
K.2.3	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Term. Attempt	$7,915.00								
K.2.4	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Off-Hook Delay	$31.21								
K.2.5	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Off-Hook Immediate	$31.21								
K.2.6	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, 10-Digit PODP	$31.21								
K.2.7	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, CDP	$85.24								
K.2.8	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Feature Code	$85.24								
K.2.9	AIN Toolkit Service - Query Charge, Per Query	$85.24								
K.2.10	AIN Toolkit Service - Type 1 Node Charge, Per AIN Toolkit Subscription, Per Node, Per Query									
K.2.11	AIN Toolkit Service - SCP Storage Charge, Per SMS Access Account, Per 100 Kilobytes									
K.2.12	AIN Toolkit Service - Monthly report - Per AIN Toolkit Service Subscription									
K.2.13	AIN Toolkit Service - Special Study - Per AIN Toolkit Service Subscription	$33.52								
K.2.14	AIN Toolkit Service - Call Event Report - Per AIN Toolkit Service Subscription	$36.23								
K.2.15	AIN Toolkit Service - Call Event Special Study - Per AIN Toolkit Service Subscription	$33.52								
		$36.23								

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing				Testing spread over service life			
		Non Recurring	Non-Recurring First	Additional	Initial	Subsequent	service life	cost	monthly cost
A.0	UNBUNDLED LOCAL LOOP								
A.1	2-WIRE ANALOG VOICE GRADE LOOP								
A.1.1	2-Wire Analog Voice Grade Loop - Service Level 1		$9.27	$9.27			29	$9.27	$ 0.36
A.1.2	2-Wire Analog Voice Grade Loop - Service Level 2		$27.94	$27.94			29	$27.94	$ 1.09
A.1.3	2-Wire Analog Voice Grade Loop - Service Level 1 - Manual Order Coordination							0	
A.1.4	2-Wire Analog Voice Grade Loop - Service Level 1 - Order Coordination for Specified Conversion Time							0	
A.1.5	2-Wire Analog Voice Grade Loop - Service Level 2 - Order Coordination for Specified Conversion Time							0	
								0	
A.2	SUB-LOOP 2-WIRE ANALOG							0	
A.2.1	Loop Feeder Per 2-Wire Analog Voice Grade Loop		$83.22	$83.22			29	$83.22	$ 3.24
A.2.2	Loop Distribution Per 2-Wire Analog Voice Grade Loop		$57.20	$57.20			29	$57.20	$ 2.23
A.2.3	Loop Concentration - Channelization System - (Outside C.O.)							0	
A.2.4	Loop Concentration - Remote Terminal Cabinet (Outside C.O.)							0	
A.2.5	Loop Concentration - Remote Channel Interface - 2-Wire Voice Grade (Outside C.O.)							0	
A.2.6	NID Per 2-Wire Analog Voice Grade Loop							0	
A.2.7	Loop Concentration - Channelization System - Incremental Cost - Manual Svc Order vs. Electronic							0	
A.2.8	Sub-Loop Feeder - Order Coordination for Specified Conversion Time		0				29	0	
A.2.9	Sub-Loop Distribution - Order Coordination for Specified Conversion Time							0	
								0	
A.3	LOOP CHANNELIZATION AND CO INTERFACE (INSIDE CO)							0	
A.3.1	Loop Channelization System - Digital Loop Carrier							0	
A.3.2	CO Channel Interface--2-Wire Voice Grade		$11.34	$11.26			42	$11.34	$ 0.32
A.3.3	Loop Concentration - Channelization System - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
A.4	4-WIRE ANALOG VOICE GRADE LOOP							0	
A.4.1	4-Wire Analog Voice Grade Loop		$83.22	$83.22			36	$83.22	$ 2.68
A.4.2	NID Per 4-Wire Analog Voice Grade Loop							0	
A.4.3	4-Wire Analog Voice Grade Loop - Order Coordination for Specified Conversion Time							0	
								0	
A.5	2-WIRE ISDN DIGITAL GRADE LOOP							0	
A.5.1	2-Wire ISDN Digital Grade Loop		$89.70	$89.70			29	$89.70	$ 3.49
A.5.2	NID Per 2-Wire ISDN Digital Grade Loop							0	
A.5.3	2-Wire ISDN Digital Grade Loop - Order Coordination for Specified Conversion Time							0	
								0	
A.6	2-WIRE ASYMMETRICAL DIGITAL SUBSCRIBER LINE (ADSL) COMPATIBLE LOOP							0	
A.6.1	2-Wire Asymmetrical Digital Subscriber Line (ADSL) Compatible Loop		$89.03	$89.03			29	$89.03	$ 3.47
A.6.2	NID Per 2-Wire Asymmetrical Digital Subscriber Line (ADSL) Loop							0	
A.6.3	2-Wire ADSL Loop - Order Coordination for Specified Conversion Time							0	
								0	
A.7	2-WIRE HIGH BIT RATE DIGITAL SUBSCRIBER LINE (HDSL) COMPATIBLE LOOP							0	
A.7.1	2-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop		$89.03	$89.03			29	$89.03	$ 3.47
A.7.2	NID Per 2-Wire High Bit Rate Digital Subscriber Line (HDSL) Loop							0	
A.7.3	2-Wire HDSL Loop - Order Coordination for Specified Conversion Time							0	
								0	
A.8	4-WIRE HIGH BIT RATE DIGITAL SUBSCRIBER LINE (HDSL) COMPATIBLE LOOP							0	
A.8.1	4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop		$98.61	$98.61			36	$98.61	$ 3.18

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing Non Recurring	Testing Non-Recurring First	Testing Non-Recurring Additional Initial	Testing Non-Recurring Subsequent	Testing spread over service life service life	Testing spread over service life cost	Testing spread over service life monthly cost
A.8.2	NID Per 4-Wire High Bit Rate Digital Subscriber Line (HDSL) Loop						0	
A.8.3	4-Wire HDSL Loop - Order Coordination for Specified Conversion Time						0	
							0	
A.9	4-WIRE DS1 DIGITAL LOOP						0	
A.9.1	4-Wire DS1 Digital Loop		$117.72	$48.97		42	$117.72	$ 3.33
A.9.2	4-Wire DS1 Loop - Incremental Cost - Manual Svc Order vs. Electronic						0	
A.9.3	4-Wire DS1 Loop - Order Coordination for Specified Conversion Time						0	
							0	
A.10	4-WIRE 56 OR 64 KBPS DIGITAL GRADE LOOP						0	
A.10.1	4-Wire 56 or 64 Kbps Digital Grade Loop		$140.83	$98.17		36	$140.83	$ 4.54
A.10.2	NID Per 4-Wire 56 or 64 Kbps Digital Grade Loop						0	
A.10.3	4-Wire 56 or 64 Kbps Digital Grade Loop - Order Coordination for Specified Conversion Time						0	
							0	
A.11	Unbundled Loops - Incremental Cost - Manual Svc Order vs. Electronic						0	
A.11.1	Unbundled 2-Wire Loops - Incremental Cost - Manual Svc Order vs. Electronic						0	
A.11.2	Unbundled 4-Wire Loops (Excluding DS1) - Incremental Cost - Manual Svc Order vs. Electronic						0	
A.11.3	NID Per 2-Wire Loops - Manual Svc Order vs. Electronic						0	
A.11.4	NID Per 4-Wire Loops - Manual Svc Order vs. Electronic						0	
							0	
B.0	UNBUNDLED LOCAL EXCHANGE PORTS AND FEATURES						0	
							0	
B.1	EXCHANGE PORTS						0	
B.1.1	Exchange Ports - 2-Wire Analog Line Port (Res., Bus.)		$5.89	$5.89		28	$5.89	$ 0.24
B.1.2	Exchange Ports - 4-Wire Analog Voice Grade Port		$5.89	$5.89		54	$5.89	$ 0.14
B.1.3	Exchange Ports - 2-Wire DID Port		$12.91	$12.91		28	$12.91	$ 0.52
B.1.4	Exchange Ports - 4-Wire DID Port		$12.31	$12.31		28	$12.31	$ 0.49
B.1.5	Exchange Ports - 2-Wire ISDN Port		$15.86	$15.86		60	$15.86	$ 0.34
B.1.6	Exchange Ports - 4-Wire ISDN DS1 Port		$35.75	$35.75		84	$35.75	$ 0.59
B.1.7	Exchange Ports - 2-Wire Analog Line Port (PBX)		$5.89	$5.89		54	$5.89	$ 0.14
B.1.8	Exchange Ports - Coin Port		$5.89	$5.89		39	$5.89	$ 0.18
B.1.9	Exchange Ports - 2-Wire Analog Line Port (Res., Bus.) - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.10	Exchange Ports - 4-Wire Analog Voice Grade Port - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.11	Exchange Ports - 2-Wire DID Port - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.12	Exchange Ports - 4-Wire DID Port - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.13	Exchange Ports - 2-Wire ISDN Port - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.14	Exchange Ports - 4-Wire ISDN DS1 Port - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.15	Exchange Ports - 2-Wire Analog Line Port (PBX) - Incremental Cost - Manual Svc Order vs. Electronic						0	
B.1.16	Exchange Ports - Coin Port - Incremental Cost - Manual Svc Order vs. Electronic						0	
							0	
B.2	FEATURES						0	
B.2.1	Three-Way Calling	$0.0811				28	$0.0811	$ 0.0033
B.2.2	Cust. Changeable Speed Calling	$0.0811				28	$0.0811	$ 0.0033
B.2.3	Call Waiting	$0.0811				28	$0.0811	$ 0.0033
B.2.4	Remote Activation of Call Forwarding	$0.0811				28	$0.0811	$ 0.0033
B.2.5	Cancel Call Waiting	$0.0811				28	$0.0811	$ 0.0033
B.2.6	Automatic Callback	$0.0811				28	$0.0811	$ 0.0033
B.2.7	Automatic Recall	$0.0811				28	$0.0811	$ 0.0033
B.2.8	Calling Number Delivery	$0.0811				28	$0.0811	$ 0.0033
B.2.9	Calling Number Delivery Blocking	$0.0811				28	$0.0811	$ 0.0033

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing					Testing spread over service life		
		Non Recurring	Non-Recurring First	Additional Initial		Subsequent	service life	cost	monthly cost
B.2.10	Customer Originated Trace	$0.0811					28	$0.0811	$ 0.0033
B.2.11	Selective Call Rejection	$0.0811					28	$0.0811	$ 0.0033
B.2.12	Selective Call Forwarding	$0.0811					28	$0.0811	$ 0.0033
B.2.13	Selective Call Acceptance	$0.0811					28	$0.0811	$ 0.0033
B.2.15	Multiline Hunt Service	$0.0811					28	$0.0811	$ 0.0033
B.2.16	Call Forwarding Variable	$0.0811					28	$0.0811	$ 0.0033
B.2.17	Call Forwarding Busy Line	$0.0811					28	$0.0811	$ 0.0033
B.2.18	Call Forwarding Don't Answer All Calls	$0.0811					28	$0.0811	$ 0.0033
B.2.19	Remote Call Forwarding	$0.0811					28	$0.0811	$ 0.0033
B.2.20	Call Transfer	$0.0811					28	$0.0811	$ 0.0033
B.2.21	Call Hold	$0.0811					28	$0.0811	$ 0.0033
B.2.22	Toll Restricted Service	$0.0811					28	$0.0811	$ 0.0033
B.2.23	Msg. Waiting Indic. - Stutter Dial Tone	$0.0811					28	$0.0811	$ 0.0033
B.2.24	Anonymous Call Rejection	$0.0811					28	$0.0811	$ 0.0033
B.2.25	Shared Call Appearances of a DN	$0.0811					60	$0.0811	$ 0.0017
B.2.26	Multiple Call Appearances	$0.0811					60	$0.0811	$ 0.0017
B.2.27	ISDN Bridged Call Exclusion	$0.0811					60	$0.0811	$ 0.0017
B.2.28	Call by Call Access	$2.27					28	$2.27	$ 0.09
B.2.29	Privacy Release	$0.0811					28	$0.0811	$ 0.0033
B.2.30	Multi Appearance Directory Number Calls	$0.0811					28	$0.0811	$ 0.0033
B.2.31	Make Set Busy	$0.0811					28	$0.0811	$ 0.0033
B.2.32	Teen Service (Res. Dist. Alerting Svc.)	$0.0811					28	$0.0811	$ 0.0033
B.2.33	Code Restriction and Diversion	$0.0811					28	$0.0811	$ 0.0033
B.2.34	Call Park	$0.0811					28	$0.0811	$ 0.0033
B.2.35	Automatic Line	$0.0811					28	$0.0811	$ 0.0033
B.2.36	ISDN Message Waiting Indication-Lamp	$0.0811					28	$0.0811	$ 0.0033
B.2.37	ISDN Feature Function Buttons	$0.0811					60	$0.0811	$ 0.0017
B.2.39	Subsequent Ordering Charge - Electronic	$0.0811					28	$0.0811	$ 0.0033
B.2.40	Subsequent Ordering Charge -Incremental Cost - Manual Svc Order vs. Electronic							0	
C.0	UNBUNDLED SWITCHING AND LOCAL INTERCONNECTION							0	
C.1	LOCAL SWITCHING							0	
C.1.1	End Office Switching Function, Per MOU							0	
C.1.2	End Office Interoffice Trunk Port - Shared, Per MOU							0	
C.2	TANDEM SWITCHING							0	
C.2.1	Tandem Switching Function Per MOU							0	
C.2.2	Tandem Interoffice Trunk Port - Shared, Per MOU							0	
D.0	UNBUNDLED TRANSPORT AND LOCAL INTERCONNECTION							0	
D.1	COMMON TRANSPORT							0	
D.1.1	Common Transport - Per Mile, Per MOU							0	
D.1.2	Common Transport - Facilities Termination Per MOU							0	
D.2	INTEROFFICE TRANSPORT - DEDICATED - VOICE GRADE							0	
D.2.1	Interoffice Transport - Dedicated - 2-Wire Voice Grade - Per Mile							0	
D.2.2	Interoffice Transport - Dedicated - 2- Wire Voice Grade - Facility Termination		$23.00	$16.67			42	$23.00	$ 0.65

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing Non Recurring	Testing Non-Recurring First	Testing Non-Recurring Additional	Testing Initial	Testing Subsequent	Testing spread over service life service life	Testing spread over service life cost	Testing spread over service life monthly cost
D.2.3	Interoffice Transport - Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
D.3	INTEROFFICE TRANSPORT - DEDICATED - DS0 - 56/64 KBPS							0	
D.3.1	Interoffice Transport - Dedicated - DS0 - Per Mile							0	
D.3.2	Interoffice Transport - Dedicated - DS0 - Facility Termination		$23.00	$16.67			42	$23.00	$ 0.65
D.3.3	Interoffice Transport - DSO - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
D.4	INTEROFFICE TRANSPORT - DEDICATED - DS1							0	
D.4.1	Interoffice Transport - Dedicated - DS1 - Per Mile							0	
D.4.2	Interoffice Transport - Dedicated - DS1 - Facility Termination		$33.58	$33.58			42	$33.58	$ 0.95
D.4.3	Interoffice Transport - DS1 - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
D.5	LOCAL CHANNEL - DEDICATED							0	
D.5.1	Local Channel - Dedicated - 2-Wire Voice Grade		$162.94	$36.25			42	$162.94	$ 4.61
D.5.2	Local Channel - Dedicated - 4-Wire Voice Grade		$166.24	$37.24			42	$166.24	$ 4.70
D.5.3	Local Channel - Dedicated - DS1		$78.11	$78.11			42	$78.11	$ 2.21
D.5.4	Local Channel - Dedicated - 2Wire Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic							0	
D.5.5	Local Channel - Dedicated - 4Wire Voice Grade - Incremental Cost - Manual Svc Order vs. Electronic							0	
D.5.6	Local Channel - Dedicated - DS1 -Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
E.0	SIGNALING NETWORK, DATA BASES, & SERVICE MANAGEMENT SYS.							0	
								0	
E.1	800 ACCESS TEN DIGIT SCREENING							0	
E.1.1	800 Access Ten Digit Screening, Per Call							0	
E.1.2	800 Access Ten Digit Screening, Reservation Charge Per 800 Number Reserved							0	
E.1.3	800 Access Ten Digit Screening, Per 800 # Established W/O POTS Translations							0	
E.1.4	800 Access Ten Digit Screening, Per 800 # Established With POTS Translations							0	
E.1.5	800 Access Ten Digit Screening, Customized Area of Service Per 800 Number							0	
E.1.6	800 Access Ten Digit Screening, Multiple InterLATA CXR Routing Per CXR Requested Per 800 #							0	
E.1.7	800 Access Ten Digit Screening, Change Charge Per Request							0	
E.1.8	800 Access Ten Digit Screening, Call Handling and Destination Features							0	
E.1.9	800 Access Ten Digit Scrng, Reserv Chrg Per 800 # Reserved-Incrm Cost-Manual Svc Order vs. Electr							0	
E.1.10	800 Access Ten Digit Scrng, Per 800 # Est'd w/o POTS Transl.-Incrm Cost-Manual Svc Order vs. Electr							0	
E.1.11	800 Access Ten Digit Scrng, Per 800 # Est'd w/ POTS Transl.-Incrm Cost-Manual Svc Order vs. Electr							0	
E.1.12	800 Access Ten Digit Scrng, Chng Chrg/Request-Incrm Cost-Manual Svc Order vs. Electr							0	
								0	
E.2	LINE INFORMATION DATA BASE ACCESS (LIDB)							0	
E.2.1	LIDB Common Transport Per Query							0	
E.2.2	LIDB Validation Per Query							0	
E.2.3	LIDB Originating Point Code Establishment or Change							0	
E.2.4	LIDB - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
E.3	CCS7 SIGNALING TRANSPORT							0	
E.3.1	CCS7 Signaling Connection, Per 56Kbps Facility							0	
E.3.2	CCS7 Signaling Termination, Per STP Port							0	
E.3.3	CCS7 Signaling Usage, Per Call Setup Message							0	
E.3.4	CCS7 Signaling Usage, Per TCAP Message							0	
E.3.5	CCS7 Signaling Usage Surrogate, Per 56Kbps Facility, Per LATA Per Month							0	
E.3.6	CCS7 - Incremental Cost - Manual Svc Order vs. Electronic							0	

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing Non Recurring	Testing Non-Recurring First	Testing Non-Recurring Additional	Testing Initial	Testing Subsequent	Testing spread over service life service life	Testing spread over service life cost	Testing spread over service life monthly cost
F.0	OPERATIONAL SUPPORT SYSTEMS							0	
F.1	OPERATIONAL SUPPORT SYSTEMS							0	
F.1.1	OSS Electronic Interface, Per Order							0	
F.1.2	OSS OLEC Daily Usage File: Recording, per Message							0	
F.1.3	OSS OLEC Daily Usage File: Message Distribution, Per Message							0	
F.1.4	OSS OLEC Daily Usage File: Message Distribution, Per Magnetic Tape Provisioned							0	
F.1.5	OSS OLEC Daily Usage File: Data Transmission (CONNECT:DIRECT), Per Message							0	
G.0	OPERATOR SERVICES AND DIRECTORY ASSISTANCE							0	
G.1	OPERATOR CALL PROCESSING							0	
G.1.1	Oper. Call Processing - Oper. Provided Cost Per Min. - Using BST LIDB							0	
G.1.2	Oper. Call Processing - Oper. Provided Cost Per Min. - Using Foreign LIDB							0	
G.1.3	Oper. Call Processing - Fully Automated Cost per Call - Using BST LIDB							0	
G.1.4	Oper. Call Processing - Fully Automated Cost per Call - Using Foreign LIDB							0	
G.1.5	Loading Expense Per Announcement For Branded Announcement							0	
G.1.6	Recording Expense Per Announcement For Branded Announcement							0	
G.2	INWARD OPERATOR SERVICES							0	
G.2.1	Inward Operator Services - Verification, Per Minute							0	
G.2.2	Inward Operator Services - Verification and Emergency Interrupt, Per Minute							0	
G.3	DIRECTORY ASSISTANCE CALL COMPLETION ACCESS SERVICE (DACC)							0	
G.3.1	Directory Assistance Call Completion Access Service (DACC), Per Call Attempt							0	
G.4	NUMBER SERVICES INTERCEPT ACCESS SERVICE							0	
G.4.1	Number Services Intercept Per Query							0	
G.5	DIRECTORY ASSISTANCE ACCESS SERVICE							0	
G.5.1	Directory Assistance Access Service Calls, Cost Per Call							0	
G.5.2	Loading Expense Per Announcement For Branded Announcement							0	
G.5.3	Recording Expense Per Announcement For Branded Announcement							0	
G.6	DIRECTORY TRANSPORT							0	
G.6.1	Directory Transport - Local Channel DS1		$78.11	$78.11			42	$78.11	$ 2.21
G.6.2	Directory Transport - DS1 Level Interoffice Per Mile							0	
G.6.3	Directory Transport - DS1 Level Interoffice Per Facility Termination		$33.58	$33.58			42	$33.58	$ 0.95
G.6.4	Switched Common Transport Per DA Access Service Per Call							0	
G.6.5	Switched Common Transport Per DA Access Service Per Call Per Mile							0	
G.6.6	Access Tandem Switching Per DA Access Service Per Call							0	
G.6.7	Directory Transport - DA Interconnection Per DA Service Call							0	
G.6.8	Directory Transport - Installation NRC, Per Trunk or Signaling Connection		0				42	0	
G.6.9	Directory Transport Local Channel DS1 - Incremental Cost - Manual Service Order vs. Electronic							0	
G.6.10	Directory Transport Interoffice DS1 - Incremental Cost - Manual Service Order vs. Electronic							0	
G.7	DIRECTORY ASSISTANCE DATA BASE SERVICE (DADS)							0	
G.7.1	Directory Assistance Data Base Service Cost Per Listing							0	

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing Non Recurring	Testing Non-Recurring First	Testing Non-Recurring Additional	Testing Initial	Testing Subsequent	Testing spread over service life service life	Testing spread over service life cost	Testing spread over service life monthly cost
G.7.2	Directory Assistance Data Base Service, Monthly Recurring Cost							0	
								0	
G.8	DIRECT ACCESS TO DIRECTORY ASSISTANCE							0	
G.8.1	Direct Access to Directory Assistance Service, Per Month							0	
G.8.2	Direct Access to Directory Assistance Service, Per Query							0	
G.8.3	Direct Access to Directory Assistance Service, Service Establishment Charge							0	
								0	
G.9	SELECTIVE ROUTING (INTERIM SOLUTION LINE CLASS CODES)							0	
G.9.1	Selective Routing Per Unique Line Class Code Per Request Per Switch							0	
G.9.2	Selective Routing - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
H.0	COLLOCATION							0	
								0	
H.1	PHYSICAL COLLOCATION							0	
H.1.1	Physical Collocation - Application Cost							0	
H.1.2	Physical Collocation - Space Preparation							0	
H.1.3	Physical Collocation - Space Construction Cost Per First 100 Sq. Ft.							0	
H.1.4	Physical Collocation - Space Construction Cost Per Add'l 50 Sq. Ft.							0	
H.1.5	Physical Collocation - Cable Installation Cost Per Cable	0					54	0	
H.1.6	Physical Collocation - Floor Space, Per Sq. Ft.							0	
H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable							0	
H.1.8	Physical Collocation - Power, Per Ampere							0	
H.1.9	Physical Collocation - 2-wire Cross Connects		$12.39	$12.39			29	$12.39	$ 0.48
H.1.10	Physical Collocation - 4-wire Cross Connects		$12.39	$12.39			36	$12.39	$ 0.40
H.1.11	Physical Collocation - DS1 Cross Connects		$13.47	$13.47			42	$13.47	$ 0.38
H.1.12	Physical Collocation - DS3 Cross Connects		$13.47	$13.47			42	$13.47	$ 0.38
H.1.13	Physical Collocation - 2-Wire POT Bay							0	
H.1.14	Physical Collocation - 4-Wire POT Bay							0	
H.1.15	Physical Collocation - DS1 POT Bay							0	
H.1.16	Physical Collocation - DS3 POT Bay							0	
H.1.17	Physical Collocation - Security Escort - Basic, Per Half Hour							0	
H.1.18	Physical Collocation - Security Escort - Overtime, Per Half Hour							0	
H.1.19	Physical Collocation - Security Escort - Premium, Per Half Hour							0	
H.1.20	Physical Collocation - 2-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic							0	
H.1.21	Physical Collocation - 4-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic							0	
H.1.22	Physical Collocation -DS1/DS3 Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic							0	
								0	
H.2	VIRTUAL COLLOCATION							0	
H.2.1	Virtual Collocation - Application Cost							0	
H.2.2	Virtual Collocation - Cable Installation Cost Per Cable	0					54	0	
H.2.3	Virtual Collocation - Floor Space Per Sq. Ft.							0	
H.2.4	Virtual Collocation - Floor Space Power, Per Ampere							0	
H.2.5	Virtual Collocation - Cable Support Structure, Per Entrance Cable							0	
H.2.6	Virtual Collocation - 2-wire Cross Connects		$12.39	$12.39			29	$12.39	$ 0.48
H.2.7	Virtual Collocation - 4-wire Cross Connects		$12.39	$12.39			36	$12.39	$ 0.40
H.2.8	Virtual Collocation - DS1 Cross Connects		$13.47	$13.47			42	$13.47	$ 0.38
H.2.9	Virtual Collocation - DS3 Cross Connects		$13.47	$13.47			42	$13.47	$ 0.38
H.2.10	Virtual Collocation - Security Escort - Basic, Per Half Hour							0	
H.2.11	Virtual Collocation - Security Escort - Overtime, Per Half Hour							0	

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing Non Recurring	Testing Non-Recurring First	Testing Non-Recurring Additional	Testing Initial	Testing Subsequent	Testing spread over service life service life	Testing spread over service life cost	Testing spread over service life monthly cost
H.2.12	Virtual Collocation - Security Escort - Premium, Per Half Hour							0	
H.2.13	Virtual Collocation - 2-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic							0	
H.2.14	Virtual Collocation - 4-Wire Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic							0	
H.2.15	Virtual Collocation -DS1/DS3 Cross Connects - Incremental Cost - Manual Svc Order vs. Electronic							0	
I.0	SERVICE PROVIDER NUMBER PORTABILITY							0	
I.1	SERVICE PROVIDER NUMBER PORTABILITY - RCF							0	
I.1.1	Service Provider Number Portability - RCF, Per Number Ported	$0.0510					24	$0.0510	$ 0.00
I.1.2	Service Provider Number Portability - RCF, Per Additional Path							0	
I.1.3	Service Provider Number Portability - RCF, Per Service Order, Per Location							0	
I.2	SERVICE PROVIDER NUMBER PORTABILITY - DID							0	
I.2.1	Service Provider Number Portability - DID, Per Number Ported, Residence	0					24	0	
I.2.2	Service Provider Number Portability - DID, Per Number Ported, Business	0					24	0	
I.2.3	Service Provider Number Portability - DID, Per Service Order, Per Location							0	
I.2.4	Service Provider Number Portability - DID, Per Trunk Termination, Initial	$6.07					24	$6.07	$ 0.28
I.2.5	Service Provider Number Portability - DID, Per Trunk Termination, Subsequent	$2.28					24	$2.28	$ 0.11
I.3	Service Provider Number Portability - Manual Svc Order vs. Electronic							0	
I.3.1	Service Provider Number Portability - Incremental Cost - Manual Svc Order vs. Electronic							0	
I.4	SERVICE PROVIDER NUMBER PORTABILITY RIPH							0	
I.4.1	Service Provider Number Portability - RIPH, Functionality, Per Central office	0					24	0	
I.4.2	Service Provider Number Portability - RIPH, Functionality, Per Rearrangement	0					24	0	
I.5	SERVICE PROVIDER NUMBER PORTABILITY RI-PH							0	
I.5.1	Service Provider Number Portability - RI-PH, Per Number Ported	$0.0374					24	$0.0374	$ 0.00
I.5.2	SPNP - RIPH, Per Service Order, Per Location							0	
J.0	OTHER							0	
J.1	DARK FIBER							0	
J.1.1	Dark Fiber, Per Four Fiber Strands, Per Route Mile or Fraction Thereof		$138.78	$104.46			42	$138.78	$ 3.93
J.2	ACCESS TO POLES, DUCTS, CONDUITS AND RIGHTS OF WAY							0	
J.2.1	Access to Poles Per Pole, Per Foot, Per Year							0	
J.2.2	Access to Conduits, Per Foot, Per Year							0	
J.2.3	Access to Innerduct, Per Foot, Per Year							0	
K.0	ADVANCED INTELLIGENT NETWORK (AIN) SERVICES							0	
K.1	BellSouth AIN SMS Access Service							0	
K.1.1	AIN SMS Access Service - Service Establishment, Per State, Initial Setup	0					36	0	
K.1.2	AIN SMS Access Service - Port Connection - Dial/Shared Access	0					36	0	
K.1.3	AIN SMS Access Service - Port Connection - ISDN Access	0					36	0	
K.1.4	AIN SMS Access Service - User Identification Codes - Per User ID Code	0					36	0	
K.1.5	AIN SMS Access Service - Security Card, Per User ID Code, Initial or Replacement	0					36	0	
K.1.6	AIN SMS Access Service - Storage, Per Unit (100 Kilobytes)							0	

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee
Testing

11/29/99

	Cost Element	Testing Non Recurring	Testing Non-Recurring First	Testing Non-Recurring Additional	Testing Non-Recurring Initial	Testing Non-Recurring Subsequent	Testing spread over service life service life	Testing spread over service life cost	Testing spread over service life monthly cost
K.1.7	AIN SMS Access Service - Session, Per Minute							0	
K.1.8	AIN SMS Access Service - Company Performed Session, Per Minute							0	
								0	
K.2	BellSouth AIN Toolkit Service							0	
K.2.1	AIN Toolkit Service - Service Establishment Charge, Per State, Initial Setup	0					36	0	
K.2.2	AIN Toolkit Service - Training Session, Per Customer							0	
K.2.3	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Term. Attempt	0					36	0	
K.2.4	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Off-Hook Delay	0					36	0	
K.2.5	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Off-Hook Immediate	0					36	0	
K.2.6	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, 10-Digit PODP	0					36	0	
K.2.7	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, CDP	0					36	0	
K.2.8	AIN Toolkit Service - Trigger Access Charge, Per Trigger, Per DN, Feature Code	0					36	0	
K.2.9	AIN Toolkit Service - Query Charge, Per Query							0	
K.2.10	AIN Toolkit Service - Type 1 Node Charge, Per AIN Toolkit Subscription, Per Node, Per Query							0	
K.2.11	AIN Toolkit Service - SCP Storage Charge, Per SMS Access Account, Per 100 Kilobytes							0	
K.2.12	AIN Toolkit Service - Monthly report - Per AIN Toolkit Service Subscription	$1.20					36	$1.20	$ 0.04
K.2.13	AIN Toolkit Service - Special Study - Per AIN Toolkit Service Subscription	$1.50					36	$1.50	$ 0.05
K.2.14	AIN Toolkit Service - Call Event Report - Per AIN Toolkit Service Subscription	$1.20					36	$1.20	$ 0.04
K.2.15	AIN Toolkit Service - Call Event Special Study - Per AIN Toolkit Service Subscription	$1.50					36	$1.50	$ 0.05

Note: if there is a zero in the Testing column, there are actually testing activities involved with the element. However there is no corresponding recurring element to recover the testing costs. Thus, the costs were left in the nonrecurring costs. The following sheet displays the testing amounts for elements with no corresponding recurring element.

F.1.1 OSS ELECTRONIC INTERFACE COST, PER UNE
TENNESSEE

Line	Description	Source	Amount
6	OSS EI Cost, per Service Order	TELRIC Calculator	$9.83
7	Cost of Money	Compliance Order	9.93%
8	Number of Years To Amortize	Compliance Order	7
9			
10	**Cost Amortized:**		
11	Monthly Cost of Money	L7/12	0.8275%
12	Amortization Months	L8*12	84
13	Amortization Factor,.8275%,84 months	(L11*(1+L11)^L12)/(((1+L11)^L12)-1)	0.016565038
14	OSS EI Cost, per Service Order	L6*L13	$0.16
15	Average Number of UNEs Per Order	Network & Carrier Services	2.5
16	Churn Factor	Network & Carrier Services	2.92
17			
18	**OSS EI Cost, per UNE**	(L14/L15)*L16	$0.19

TENNESSEE DOCKET NO. 97-01262
TABLE OF CONTENTS

TENNESSEE DOCKET NO. 97-01262
TABLE OF CONTENTS

APPENDIX A

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

TENNESSEE DOCKET NO. 97-01262
SECTION 1
STUDY METHODOLOGY

STATEMENT OF PURPOSE

On November 3, 1999 the Tennessee Regulatory Authority (TRA) ordered additional modifications to BellSouth Telecommunications, Inc. (hereinafter referred to as BellSouth or the Company) cost studies filed in Docket No. 97-01262. Additionally, the order included the requirement to file combined loop-port cost studies based on deployment of integrated digital loop carrier. This document addresses the combination studies. BellSouth's other studies, reflecting the November 3rd modifications, are being filed in a separate document.

Included in this document are Total Element Long Run Incremental Cost (TELRIC) studies for the following loop port combinations.

2-Wire voice grade loop with 2-wire line port
2-Wire voice grade loop with 2-wire DID trunk port
2-Wire ISDN digital grade loop with 2-wire ISDN digital Line side port
4-Wire DS1 digital loop with 4-wire ISDN DS1 digital trunk port
4-WIRE DS1 digital loop with 4-wire DID trunk port

These studies reflect all modifications adopted by the TRA in their Order dated November 3, 1999. As required by the order, the studies incorporated the deployment of integrated digital loop carrier (IDLC).

BellSouth TELRIC Calculator
Unbundled Network Cost Elements Summary Report
Tennessee

11/19/99

	Cost Element	Recurring	Non Recurring	Non-Recurring First	Non-Recurring Additional	Non-Recurring Initial	Non-Recurring Subsequent
P.0	UNBUNDLED LOOP COMBINATIONS						
P.1	2-WIRE VOICE GRADE LOOP WITH 2-WIRE LINE PORT						
P.1.1	2-Wire Voice Grade Loop	$14.12					
P.1.2	Exchange Port - 2-Wire Line Port	$1.27					
P.1.3	2-Wire Voice Grade Loop / Line Port Combination - Non-recurring Costs			$1.03	$0.2886		
P.1.4	2-Wire Voice Grade Loop / Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic			$30.89	$7.03		
P.1.5	2-Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Non-recurring Costs						$0.7591
P.1.6	2 - Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Incremental Cost Manual Service Order vs. Electronic Service Order						$7.97
P.3	2-WIRE VOICE GRADE LOOP WITH 2-WIRE DID TRUNK PORT						
P.3.1	2-Wire Voice Grade Loop	$10.75					
P.3.2	Exchange Port - 2-Wire DID Trunk Port	$8.26					
P.3.3	2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Non-recurring Costs			$8.76	$5.75		
P.3.4	2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Incremental Cost - Manual Svc Order vs. Electronic			$41.43	$9.80		
P.4	2-WIRE ISDN DIGITAL GRADE LOOP WITH 2-WIRE ISDN DIGITAL LINE SIDE PORT						
P.4.1	2-Wire ISDN Digital Grade Loop	$18.32					
P.4.2	Exchange Port - 2-Wire ISDN Line Side Port	$15.72					
P.4.3	2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non-recurring Costs			$117.23	$117.23		
P.4.5	2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non Feature Subsequent Activity - Non-recurring Costs		$212.88				
P.5	4-WIRE DS1 DIGITAL LOOP WITH 4-WIRE ISDN DS1 DIGITAL TRUNK PORT						
P.5.1	4-Wire DS1 Digital Loop	$61.74					
P.5.2	Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port	$73.62					
P.5.3	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Non-recurring Costs			$328.53	$328.53		
P.5.5	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Channel Activation - Per Channel		$28.39				
P.5.6	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward/2way Telephone Numbers		$0.9353				
P.5.7	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Outward Telephone Numbers		$22.36				
P.5.8	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward Telephone Numbers		$44.71				
P.5.9	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Service Order Per Order		$189.76				
P.15	4-WIRE DS1 DIGITAL LOOP WITH 4-WIRE DID TRUNK PORT						
P.15.1	4-Wire DS1 Digital Loop	$61.74					
P.15.2	Exchange Port - 4-Wire DID Trunk Port	$35.04					
P.15.3	4-wire DS1 Digital Loop / 4-wire DID Trunk Port Combination - Non-recurring Costs			$312.91	$312.91		
P.15.5	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination -Subsequent Channel Activation - Per Channel		$108.67				
P.15.6	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Telephone Numbers		$88.68				
P.15.7	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Signaling Changes		$22.92				
P.15.8	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Service Order Per Order		$94.88				

TENNESSEE DOCKET NO. 97-01262
SECTION 2
STUDY METHODOLOGY

STUDY METHODOLOGY

The cost studies included in this filing are based on the methodology adopted by the TRA in its order dated November 3, 1999 in Docket No. 97-01262. A full description of this methodology is included in Section 2 of BellSouth's original filing in this docket. All modifications and adjustments adopted by the Commission have been incorporated.

TENNESSEE DOCKET NO. 97-01262
SECTION 3
DESCRIPTION OF MODELS AND PRICE CALCULATORS

1. Loop Model

The loop model used in this filing is the same model adopted by the TRA in Docket No. 97-01262. The model was revised to reflect a deployment of digital loop carrier with a mix of 87.94% IDLC and 12.06% universal digital loop carrier (UDLC).

2. SONET PRICE CALCULATOR

The SONET Price Calculator is the same model adopted by the Commission in Docket No. 97-01262.

3. Digital Loop Carrier Price Calculator

The Digital Loop Carrier Price Calculator is the same model adopted by the Commission in Docket No. 97-01262. The model was revised to include the deployment of IDLC.

4. Loop Multiplexer Price Calculator

The Loop Multiplexer Price Calculator is the same model adopted by the Commission in Docket No. 97-01262.

5. DS1 Channelization Price Calculator

The DS1 Channelization Price Calculator is the same model adopted by the Commission in Docket No. 97-01262.

6. SCIS/MO Model Description

The SCIS/MO Model is the same model adopted by the Commission in Docket No. 97-01262.

TENNESSEE DOCKET NO. 97-01262
SECTION 4
INPUTS - LOADINGS AND FACTORS

LOADINGS AND FACTORS

All loadings and factors used in this filing are the same as those adopted by the TRA in Docket No. 97-01262 including adjustments in the Order dated November 3, 1999. A description of these loadings and factors can be found in Section 4 of BellSouth's original filing in this docket.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

INTRODUCTION

This section contains a description of cost elements and an overview of the study process. Additionally, inputs and work papers for each cost element are provided.

The studies included in this filing are all based on a three (3) year study period (1997 - 1999). All long run costs associated with providing the network capabilities are identified and included in the cost studies.

The following page contains a list of the unbundled network cost elements provided in this filing package. A cost element number represents each cost element. This designation is referenced throughout the studies.

Following the element list are the narratives for each category of combined elements describing the elements, study technique, and specific study assumptions. After the narratives are the TELRIC Calculator© outputs. Following the TELRIC Calculator© outputs, are Microsoft Excel spreadsheets containing the inputs and associated work papers.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

		Filename
P.0	**UNBUNDLED LOOP COMBINATIONS**	
P.1	***2-WIRE VOICE GRADE LOOP WITH 2-WIRE LINE PORT***	
P.1.1	2-Wire Voice Grade Loop	resbus.xls
P.1.2	Exchange Port - 2-Wire Line Port	resbus.xls
P.1.3	2-Wire Voice Grade Loop / Line Port Combination - Non-recurring Costs	resbus.xls
P.1.4	2-Wire Voice Grade Loop / Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic	resbus.xls
P.1.5	2-Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Non-recurring Costs	resbus.xls
P.1.6	2 - Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Incremental Cost Manual Service Order vs. Electronic Service Order	resbus.xls
P.1.388	2-Wire Voice Grade Loop / Line Port Combination - Testing Costs	resbus.xls
P.3	***2-WIRE VOICE GRADE LOOP WITH 2-WIRE DID TRUNK PORT***	
P.3.1	2-Wire Voice Grade Loop	2wdid.xls
P.3.2	Exchange Port - 2-Wire DID Trunk Port	2wdid.xls
P.3.3	2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Non-recurring Costs	2wdid.xls
P.3.4	2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Incremental Cost - Manual Svc Order vs. Electronic	2wdid.xls
P.3.388	2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Testing Costs	2wdid.xls
P.4	***2-WIRE ISDN DIGITAL GRADE LOOP WITH 2-WIRE ISDN DIGITAL LINE SIDE PORT***	
P.4.1	2-Wire ISDN Digital Grade Loop	bri.xls
P.4.2	Exchange Port - 2-Wire ISDN Line Side Port	bri.xls
P.4.3	2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non-recurring Costs	bri.xls
P.4.5	2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non Feature Subsequent Activity - Non-recurring Costs	bri.xls
P.4.388	2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Testing Costs	bri.xls
P.5	***4-WIRE DS1 DIGITAL LOOP WITH 4-WIRE ISDN DS1 DIGITAL TRUNK PORT***	
P.5.1	4-Wire DS1 Digital Loop	P514WDS1.xls
P.5.2	Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port	pri.xls
P.5.3	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Non-recurring Costs	pri.xls
P.5.5	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Channel Activation - Per Channel	pri.xls
P.5.6	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward/2way Telephone Numbers	pri.xls
P.5.7	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Outward Telephone Numbers	pri.xls

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

P.5.8	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward Telephone Numbers	pri.xls
P.5.9	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Service Order Per Order	pri.xls
P.5.388	4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Testing Costs	pri.xls
P.15	***4-WIRE DS1 DIGITAL LOOP WITH 4-WIRE DID TRUNK PORT***	
P.15.1	4-Wire Digital Loop	P1514ds1.xls
P.15.2	Exchange Port - 4-wire DID Trunk Port	4wdid.xls
P.15.3	4-wire DS1 Digital Loop / 4-wire DID Trunk Port Combination - Non-recurring Costs	4wdid.xls
P.15.5	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination -Subsequent Channel Activation - Per Channel	4wdid.xls
P.15.6	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Telephone Numbers	4wdid.xls
P.15.7	4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Signaling Changes	4wdid.xls
P.15.388	4-wire DS1 Digital Loop / 4-wire DID Trunk Port Combination -Testing Costs	4wdid.xls

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

P.0 UNBUNDLED LOOP COMBINATIONS
P.1 2-WIRE VOICE GRADE LOOP WITH 2-WIRE LINE PORT

Element Description

This unbundled combination includes a 2-wire voice grade loop (P.1.1) and a dedicated 2-wire voice grade switch termination (P.1.2). The loop is the physical 2-wire voice grade transmission facility (or channel or group of channels on such facility) which extends from the main distributing frame (MDF) connection in the end office to a demarcation point at the customer's premises (i.e. the network interface device or NID). The facility is provided as a nondesigned circuit and includes both feeder and distribution outside plant. The port is a dedicated switch termination, which allows the loop to be connected to BellSouth's central office switch. This connection provides 2-wire voice grade loops with the normal voice grade offerings such as dialing capability (dial tone), a telephone number, and a common intercept announcement. It also provides access to other services such as 911, operator services and directory assistance.

Study Technique

The Loop Model is used to develop cost for the loop portion of this combination. Material prices for digital loop carrier and multiplexers are provided by the DLC Price Calculator and the Loop Multiplexer Price Calculator.

The 2-wire line port investments are calculated by extracting the appropriate investment primitive from the SCIS/MO output reports. The investments are then melded for each switch type based on distribution of projected network access lines.

In addition to port investments associated with central office switch hardware, software maybe required. The software is purchased from switch vendors through the payment of Right To Use (RTU) fees. The treatment of RTU fees in the study depends on the anticipated structure of BellSouth's expenditures for RTU fees. Since the projected life of the central office switch is 10 years, these studies amortize RTU fees over 120 months (10 years times 12 months). The annuity is calculated for each central office switch type. The technology mix percentages are then applied to calculate a single RTU composite fee.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

Study Assumptions

Both loop and port costs reflect a weighted integrated/non-integrated environment.

MDF costs are included with the port.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

P.3 2-WIRE VOICE GRADE LOOP WITH 2-WIRE DID TRUNK PORT

Element Description

This unbundled combination includes a 2-wire voice grade loop (P.3.1) and a dedicated 2-wire DID trunk port termination (P.3.2). The loop is the physical 2-wire voice grade transmission facility (or channel or group of channels on such facility) which extends from the main distributing frame connection in the end office to a demarcation point at the customer's premises (i.e., the network interface device or NID). The facility is provided as a nondesigned circuit and includes both feeder and distribution outside plant. The port is a dedicated switch termination which provides the switch connection for 2-Wire direct inward dial (DID) trunks to PBX systems.

Study Technique

The Loop Model is used to develop cost for the loop portion of this combination. Material prices for digital loop carrier and multiplexers are provided by the DLC Price Calculator and the Loop Multiplexer Price Calculator.

The 2-wire DID port investments are calculated by extracting the appropriate investment primitive from the SCIS/MO output reports. The investments are then melded for each switch type based on distribution of projected network access lines.

The DS1 Channelization Price Calculator is used to develop the investments for other equipment components required to make the port functional (e.g., D4 channel bank, DSX terminations, special signaling plug-ins, etc).

In addition to port investments associated with central office switch hardware, software maybe required. The software is purchased from switch vendors through the payment of Right To Use (RTU) fees. The treatment of RTU fees in the study depends on the anticipated structure of BellSouth's expenditures for RTU fees. Since the projected life of the central office switch is 10 years, these studies amortize RTU fees over 120 months (10 years times 12 months). The annuity is calculated for each central office switch type. The technology mix percentages are then applied to calculate a single RTU composite fee.

Study Assumptions

Loop costs reflect a non-integrated environment.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

P.4 2-WIRE ISDN DIGITAL GRADE LOOP WITH 2-WIRE ISDN DIGITAL LINE SIDE PORT

Element Description

This unbundled combination includes a 2-wire ISDN loop (P.4.1) connected to a dedicated 2-wire ISDN line side port (P.4.2) and a flat rate usage additive (P.4.5). The loop is the physical 2-wire transmission facility (or channel or group of channels on the facility) which extends from the main distributing frame connection in the end office to a demarcation point at the customer's premises (i.e. the network interface device or NID). The loop is provided as a designed circuit and includes both feeder and distribution outside plant. The port is a dedicated switch termination, which provides the switch connection for Basic Rate (2B+D) ISDN telephone lines.

Study Technique

The Loop Model is used to develop cost for the loop portion of this combination. Material prices for digital loop carrier and multiplexers are provided by the DLC Price Calculator and the Loop Multiplexer Price Calculator.

The 2-Wire ISDN port investments are calculated by extracting the appropriate investment primitive from the SCIS/MO output reports. The investments are then melded for each switch type based on distribution of projected network access lines.

In addition to port investments associated with central office switch hardware, software maybe required. The software is purchased from switch vendors through the payment of Right To Use (RTU) fees. The treatment of RTU fees in the study depends on the anticipated structure of BellSouth's expenditures for RTU fees. Since the projected life of the central office switch is 10 years, these studies amortize RTU fees over 120 months (10 years times 12 months). The annuity is calculated for each central office switch type. The technology mix percentages are then applied to calculate a single RTU composite fee.

Study Assumptions

Both loop and port costs reflect a weighted integrated/non-integrated environment.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

P.5 4-WIRE DS1 DIGITAL LOOP WITH 4-WIRE ISDN DS1 DIGITAL TRUNK PORT

Element Description

This unbundled combination includes a 4-wire DS1 digital loop (P.5.1) connected to a 4-wire ISDN DS1 digital trunk port (P.5.2) and a flat rate usage additive (P.5.5). The digital loop (4-Wire DS1) is a dedicated digital transmission facility from BellSouth's Main Distributing Frame to a customer's premises. The facility will include a Network Interface at the customer's location for the purpose of connecting the loop to the customer's inside wire. The port is a dedicated switch termination, which provides the switch connection for Primary Rate Interface (23B+D) ISDN telephone lines.

Study Technique

A Microsoft Excel spreadsheet is used to develop the material prices for the 4-wire digital loop. Material prices for the digital loop carrier equipment and the fiber transport are developed in the SONET Price Calculator and are input to the Microsoft Excel spreadsheet. Copper transport material prices are taken from the Loop Model and are input to the Microsoft Excel spreadsheet. This is the same process adopted by the Commission in Docket No. 97-01262. A more detailed description is available in Section 5 of BellSouth's original filing.

The 4-Wire ISDN port investments are calculated by extracting the appropriate investment primitives from the SCIS/MO output reports. These investment primitives represent switch specific engineered, furnished and installed (EF&I) investments for the dominant forward-looking switch types. The primitives are then aggregated for each switch type and melded by applying the technology mix percentages. These percentages were based on the projected network access lines for each switch type.

Investments for other equipment components required to make the port functional (e.g., DSX terminations, special signaling plug-ins, special transmission plug-ins, etc.) are also developed and adjusted for utilization. Switch processor utilization is an input to SCIS/MO.

In addition to port investments associated with central office switch hardware, software maybe required. The software is purchased from switch vendors through the payment of Right To Use (RTU) fees. The treatment of RTU fees in

the study depends on the anticipated structure of BellSouth's expenditures for RTU fees. Since the projected life of the central office switch is 10 years, these studies amortize RTU fees over 120 months (10 years times 12 months). The annuity is calculated for each central office switch type. The technology mix percentages are then applied to calculate a single RTU composite fee.

TENNESSEE DOCKET NO. 97-01262
SECTION 5
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES

P.15 4-WIRE DS1 DIGITAL LOOP WITH 4-WIRE DID TRUNK PORT

Element Description

This unbundled combination includes a 4-wire DS1 digital loop (P.15.1) connected to a 4-wire DID trunk port (P.15.2). The digital loop (4-Wire DS1) is a dedicated digital transmission facility from BellSouth's Main Distributing Frame to a customer's premises. The facility will include a Network Interface at the customer's location for the purpose of connecting the loop to the customer's inside wire. The port is a dedicated switch termination which allows the loop to be connected to BellSouth's central office switch.

Study Technique

A Microsoft Excel spreadsheet is used to develop the material prices for the 4-wire digital loop. Material prices for the digital loop carrier equipment and the fiber transport are developed in the SONET Price Calculator and are input to the Microsoft Excel spreadsheet. Copper transport material prices are taken from the Loop Model and are input to the Microsoft Excel spreadsheet. This is the same process adopted by the Commission in Docket No. 97-01262. A more detailed description is available in Section 5 of BellSouth's original filing.

The 4-Wire DID port investments are calculated by extracting the appropriate investment primitives from the SCIS/MO output reports. These investment primitives represent switch specific engineered, furnished and installed (EF&I) investments for the dominant forward-looking switch types. The primitives are then aggregated for each switch type and melded by applying the technology mix percentages. These percentages were based on the projected network access lines for each switch type.

Investments for other equipment components required to make the port functional (e.g., DSX terminations, special signaling plug-ins, special transmission plug-ins, etc.) are also developed and adjusted for utilization. Switch processor utilization is an input to SCIS/MO.

In addition to port investments associated with central office switch hardware, software maybe required. The software is purchased from switch vendors through the payment of Right To Use (RTU) fees. The treatment of RTU fees in the study depends on the anticipated structure of BellSouth's expenditures for RTU fees. Since the projected life of the central office switch is 10 years, these studies amortize RTU fees over 120 months (10 years times 12 months). The

annuity is calculated for each central office switch type. The technology mix percentages are then applied to calculate a single RTU composite fee.

Recurring Cost Summary

Tennessee
P.1.1 - 2-Wire Voice Grade Loop

11/19/99

	Volume Sensitive				Volume Insensitive			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$11.4820	$0.0000		$11.4820				$0.0000
Other Expenses								
Subscriber Line Testing.	$0.7690	$0.0000		$0.7690	$0.0000	$0.0000		$0.0000
Total Monthly Cost	$12.2510	$0.0000		$12.2510	$0.0000	$0.0000		$0.0000
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$12.2743				$0.0000
Common Cost Factor			X	1.1500			X	1.1500
Monthly Economic Cost				$14.1154				$0.0000

Total Monthly Economic Cost : $14.1154

000015

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

Tennessee
P.1.1 - 2-Wire Voice Grade Loop

11/19/99

	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)							
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$8.5354	0.9867	$8.4216	1.0000	1.0000	1.0000	1.0000	1.5863	$13.3592	1.0168	$13.5837
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$30.4812	0.9867	$30.0748	1.0000	1.0000	1.0000	1.0800	1.0000	$32.4808	1.0168	$33.0264
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$38.4904	0.9867	$37.9772	1.0601	1.0000	1.0000	1.0800	1.0000	$43.4804	1.0168	$44.2109
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$0.3529	0.9867	$0.3482	1.0000	1.0000	1.0000	1.0000	1.5863	$0.5524	1.0126	$0.5593
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$1.6144	0.9867	$1.5928	1.0000	1.0000	1.0000	1.0800	1.0000	$1.7203	1.0126	$1.7419
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$1.1094	0.9867	$1.0946	1.0601	1.0000	1.0000	1.0800	1.0000	$1.2532	1.0126	$1.2690
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$22.8374	0.9867	$22.5330	1.0000	1.0000	1.0000	1.0000	1.5863	$35.7440	1.0126	$36.1944
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$45.6023	0.9867	$44.9943	1.0000	1.0000	1.0000	1.0800	1.0000	$48.5938	1.0126	$49.2061
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$31.3380	0.9867	$30.9201	1.0601	1.0000	1.0000	1.0800	1.0000	$35.4007	1.0126	$35.8468
Aerial Ca - Metal - Building Entrance	12C	00	$1.1240	1.0133	$1.1390	1.0000	10.1289	1.0000	1.0000	1.0000	$11.5367	1.0000	$11.5367
Aerial Ca - Metal	22C	00	$22.1532	1.0133	$22.4478	1.0000	4.8258	1.0000	1.0000	1.0000	$108.3286	1.0000	$108.3286
Aerial Ca - Metal 24-Guage	22C4	00	$4.4186	1.0133	$4.4773	1.0000	4.3180	1.0000	1.0000	1.0000	$19.3331	1.0000	$19.3331
Aerial Ca - Metal - Drop	22C	01	$47.7853	1.0133	$48.4209	1.0000	1.0000	1.0000	1.0000	1.0000	$48.4209	1.0000	$48.4209
Aerial Ca - Fiber - Building Entrance	812C	00	$0.0030	0.9933	$0.0030	1.0000	5.2961	1.0000	1.0000	1.0000	$0.0157	1.0000	$0.0157
Aerial Ca - Fiber	822C	00	$0.8066	0.9933	$0.8012	1.0000	2.0959	1.0000	1.0000	1.0000	$1.6791	1.0000	$1.6791
Buried Ca - Metal	45C	00	$15.1088	1.0303	$15.5666	1.0000	5.4626	1.0000	1.0000	1.0000	$85.0341	1.0000	$85.0341
Buried Ca - Metal 24-Guage	45C4	00	$5.4630	1.0303	$5.6285	1.0000	4.7773	1.0000	1.0000	1.0000	$26.8890	1.0000	$26.8890
Buried Ca - Metal - Drop	45C	01	$55.8468	1.0303	$57.5390	1.0000	1.0000	1.0000	1.0000	1.0000	$57.5390	1.0000	$57.5390
Buried Ca - Fiber	845C	00	$1.0779	1.0235	$1.1033	1.0000	4.3998	1.0000	1.0000	1.0000	$4.8544	1.0000	$4.8544
Underground Ca - Metal	5C	00	$10.1417	0.9964	$10.1056	1.0000	4.4226	1.0000	1.0000	1.0000	$44.6928	1.0000	$44.6928
Underground Ca - Fiber	85C	00	$1.1944	0.9767	$1.1666	1.0000	2.0800	1.0000	1.0000	1.0000	$2.4265	1.0000	$2.4265
Submarine Ca - Fiber	86C	00	$0.0029	1.0134	$0.0029	1.0000	1.0000	1.0000	1.0000	1.0000	$0.0029	1.0000	$0.0029
Intrbld Network - Metal	52C	00	$0.1063	0.9964	$0.1059	1.0000	13.6810	1.0000	1.0000	1.0000	$1.4492	1.0000	$1.4492

000016

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

Tennessee
P.1.1 - 2-Wire Voice Grade Loop

	FRC	Investment	
Land - COE	20C	$1.3997	= Sum of Col C
Buildings - COE	10C	$28.7564	= Sum of Col E
Poles	1C	$30.9457	= Sum of Col G
Conduit Systems	4C	$38.6850	= Sum of Col I

11/19/99

	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
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$13.5837	0.0066	$0.0897	0.1356	$1.8419	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$33.0264	0.0066	$0.2180	0.1356	$4.4784	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$44.2109	0.0066	$0.2918	0.1356	$5.9950	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$0.5593	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$1.7419	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$1.2690	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$36.1944	0.0066	$0.2389	0.1356	$4.9080	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$49.2061	0.0066	$0.3248	0.1356	$6.6723	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$35.8468	0.0066	$0.2366	0.1356	$4.8608	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal - Building Entrance	12C	00	$11.5367	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal	22C	00	$127.6617	0.0000	$0.0000	0.0000	$0.0000	0.2393	$30.5440	0.0000	$0.0000
Aerial Ca - Metal - Drop	22C	01	$48.4209	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Fiber - Building Entrance	812C	00	$0.0157	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Fiber	822C	00	$1.6791	0.0000	$0.0000	0.0000	$0.0000	0.2393	$0.4017	0.0000	$0.0000
Buried Ca - Metal	45C	00	$111.9231	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Buried Ca - Metal - Drop	45C	01	$57.5390	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Buried Ca - Fiber	845C	00	$4.8544	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Underground Ca - Metal	5C	00	$44.6928	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$36.6928
Underground Ca - Fiber	85C	00	$2.4265	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$1.9922
Submarine Ca - Fiber	86C	00	$0.0029	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Intrbld Network - Metal	52C	00	$1.4492	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
					$1.3997		$28.7564		$30.9457		$38.6850

000017

Recurring Cost Development
Volume Sensitive

Tennessee
P.1.1 - 2-Wire Voice Grade Loop

11/19/99		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	20C	$1.3997	0.0000	$0.0000	0.0993	$0.1390	0.0449	$0.0628	0.0000	$0.0000	0.0116	$0.0163	$0.2181	0.0000	$0.0000	$0.2181
Buildings - COE	10C	$28.7564	0.0230	$0.6621	0.0780	$2.2425	0.0352	$1.0130	0.0037	$0.1064	0.0116	$0.3348	$4.3588	0.0000	$0.0000	$4.3588
Digtl Circ - Pair Gain	257C	$215.6385	0.0909	$19.6035	0.0626	$13.4900	0.0283	$6.0936	0.0164	$3.5365	0.0116	$2.5107	$45.2342	0.0000	$0.0000	$45.2342
Poles	1C	$30.9457	0.0400	$1.2378	0.0639	$1.9763	0.0288	$0.8927	0.0251	$0.7767	0.0116	$0.3603	$5.2438	0.0000	$0.0000	$5.2438
Aerial Ca - Metal - Building Entrance	12C	$11.5367	0.0575	$0.6634	0.0620	$0.7157	0.0280	$0.3233	0.0383	$0.4419	0.0116	$0.1343	$2.2786	0.0000	$0.0000	$2.2786
Aerial Ca - Metal	22C	$127.6617	0.0575	$7.3405	0.0620	$7.9200	0.0280	$3.5776	0.0383	$4.8894	0.0116	$1.4864	$25.2139	0.0000	$0.0000	$25.2139
Aerial Ca - Metal - Drop	22C	$48.4209	0.0575	$2.7842	0.0620	$3.0040	0.0280	$1.3569	0.0383	$1.8545	0.0116	$0.5638	$9.5634	0.0000	$0.0000	$9.5634
Aerial Ca - Fiber - Building Entrance	812C	$0.0157	0.0400	$0.0006	0.0667	$0.0010	0.0301	$0.0005	0.0041	$0.0001	0.0116	$0.0002	$0.0024	0.0000	$0.0000	$0.0024
Aerial Ca - Fiber	822C	$1.6791	0.0400	$0.0672	0.0667	$0.1120	0.0301	$0.0506	0.0041	$0.0069	0.0116	$0.0196	$0.2562	0.0000	$0.0000	$0.2562
Buried Ca - Metal	45C	$111.9231	0.0500	$5.5962	0.0658	$7.3696	0.0297	$3.3289	0.0237	$2.6526	0.0116	$1.3031	$20.2503	0.0000	$0.0000	$20.2503
Buried Ca - Metal - Drop	45C	$57.5390	0.0500	$2.8769	0.0658	$3.7886	0.0297	$1.7114	0.0237	$1.3637	0.0116	$0.6699	$10.4106	0.0000	$0.0000	$10.4106
Buried Ca - Fiber	845C	$4.8544	0.0363	$0.1764	0.0697	$0.3383	0.0315	$0.1528	0.0030	$0.0146	0.0116	$0.0565	$0.7385	0.0000	$0.0000	$0.7385
Underground Ca - Metal	5C	$44.6928	0.0432	$1.9307	0.0672	$3.0033	0.0304	$1.3566	0.0176	$0.7866	0.0116	$0.5204	$7.5976	0.0000	$0.0000	$7.5976
Underground Ca - Fiber	85C	$2.4265	0.0400	$0.0971	0.0667	$0.1618	0.0301	$0.0731	0.0101	$0.0245	0.0116	$0.0283	$0.3848	0.0000	$0.0000	$0.3848
Submarine Ca - Fiber	86C	$0.0029	0.0404	$0.0001	0.0693	$0.0002	0.0313	$0.0001	0.0012	$0.0000	0.0116	$0.0000	$0.0004	0.0000	$0.0000	$0.0004
Intrbld Network - Metal	52C	$1.4492	0.0500	$0.0725	0.0648	$0.0940	0.0293	$0.0424	0.0075	$0.0109	0.0116	$0.0169	$0.2366	0.0000	$0.0000	$0.2366
Conduit Systems	4C	$38.6850	0.0162	$0.6249	0.0834	$3.2251	0.0377	$1.4568	0.0010	$0.0387	0.0116	$0.4504	$5.7959	0.0000	$0.0000	$5.7959
Annual Total		$727.6273											$137.7841		$0.0000	$137.7841
Monthly Total (Annual Total / 12)													$11.4820		$0.0000	$11.4820

000018

Recurring Cost Summary

Tennessee
P.1.2 - Exchange Port - 2-Wire Line Port

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$0.8593	$0.0000	$0.8593			$0.0000
Other Expenses						
RTU	$0.2406	$0.0000	$0.2406	$0.0000	$0.0000	$0.0000
Total Monthly Cost	$1.0999	$0.0000	$1.0999	$0.0000	$0.0000	$0.0000
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$1.1020			$0.0000
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$1.2673			$0.0000

Total Monthly Economic Cost : $1.2673

000019

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

Tennessee
P.1.2 - Exchange Port - 2-Wire Line Port

11/19/99

	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 - Vendor EF&I - MCEP	377C	03	$37.2870	0.9966	$37.1602	1.0000	1.0000	1.1275	1.0000	1.0000	$41.8981	1.1008	$46.1214

000020

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

Tennessee
P.1.2 - Exchange Port - 2-Wire Line Port

	FRC		Investment	
Land - COE	20C		$0.3044	= Sum of Col C
Buildings - COE	10C		$6.2541	= Sum of Col E

11/19/99			A=Prev Page Col G	B	C=(AxB)	D	E=(AxD)	F	G=(AxF)	H	I=(AxH)
	FRC	Sub FRC	Investment	Land Factor	Land Investment	Building Factor	Building Investment	Pole Factor	Pole Investment	Conduit Factor	Conduit Investment
Digital Elec Switch - Vendor EF&I - MCEP	377C	03	$46.1214	0.0066	$0.3044	0.1356	$6.2541	0.0000	$0.0000	0.0000	$0.0000
					$0.3044		$6.2541		$0.0000		$0.0000

000021

Recurring Cost Development
Volume Sensitive

Tennessee
P.1.2 - Exchange Port - 2-Wire Line Port

11/19/99

	FRC	A=Prev Page Col A Investment	B Depreciation Factor	C=(AxB) Depreciation	D Cost of Money Factor	E=(AxD) Cost of Money	F Income Tax Factor	G=(AxF) Income Tax	H Plant Specific Factor	I=(AxH) Plant Specific Expense	J Ad Valorem Factor	K=(AxJ) Ad Valorem Expense	L=(C+E+G+I+K) Direct Cost	M Shared Cost Factor	N=(AxM) Shared Cost	O=(L+N) TELRIC
Land - COE	20C	$0.3044	0.0000	$0.0000	0.0993	$0.0302	0.0449	$0.0137	0.0000	$0.0000	0.0116	$0.0035	$0.0474	0.0000	$0.0000	$0.0474
Buildings - COE	10C	$6.2541	0.0230	$0.1440	0.0780	$0.4877	0.0352	$0.2203	0.0037	$0.0231	0.0116	$0.0728	$0.9480	0.0000	$0.0000	$0.9480
Digital Elec Switch	377C	$46.1214	0.0565	$2.6045	0.0667	$3.0745	0.0301	$1.3888	0.0371	$1.7111	0.0116	$0.5370	$9.3159	0.0000	$0.0000	$9.3159
Annual Total		$52.6799											$10.3113		$0.0000	$10.3113
Monthly Total (Annual Total / 12)													$0.8593		$0.0000	$0.8593

000022

Nonrecurring Cost Summary

Tennessee
P.1.3 - 2-Wire Voice Grade Loop / Line Port Combination - Non-recurring Costs

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$1.0246	$0.0000		$1.0246	$0.2881	$0.0000		$0.2881
Total Cost	$1.0246	$0.0000		$1.0246	$0.2881	$0.0000		$0.2881
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$1.0266				$0.2886
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$1.0266**				**$0.2886**

020023

Nonrecurring Cost Development

Tennessee
P.1.3 - 2-Wire Voice Grade Loop / Line Port Combination - Non-recurring Costs

11/19/99

			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 Order	2300	Customer Point Of Contact - ICSC	0.0175	0.0000	0.0000	0.0000	$42.09	$0.7366	$0.0000	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$0.7366	$0.0000
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0015	0.0015	0.0000	0.0000	$37.34	$0.0560	$0.0560	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$0.0560	$0.0560
Connect	400X	Address & Facility Inventory (AFIG)	0.0070	0.0070	0.0000	0.0000	$33.15	$0.2321	$0.2321	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$0.2321	$0.2321
														Total	1.024635	0.28806

			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 Order	2300	Customer Point Of Contact - ICSC	0.0175	0.0000	0.0000	0.0000	$42.09	$0.7366	$0.0000	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$0.7366	$0.0000
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0015	0.0015	0.0000	0.0000	$37.34	$0.0560	$0.0560	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$0.0560	$0.0560
Connect	400X	Address & Facility Inventory (AFIG)	0.0070	0.0070	0.0000	0.0000	$33.15	$0.2321	$0.2321	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$0.2321	$0.2321
														Total	1.024635	0.28806

000024

Nonrecurring Cost Summary

Tennessee

P.1.4 - 2-Wire Voice Grade Loop / Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$30.8309	$0.0000		$30.8309	$7.0150	$0.0000		$7.0150
Total Cost	$30.8309	$0.0000		$30.8309	$7.0150	$0.0000		$7.0150
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$30.8895				$7.0283
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$30.8895**				**$7.0283**

000025

Nonrecurring Cost Development

Tennessee
P.1.4 - 2-Wire Voice Grade Loop / Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic

11/19/99

			A		B		C	D=AxC		E=BxC		F	G=ExF		H=D+G	
			Installation Worktimes		Disconnect Worktimes			Install Cost		Disconnect Cost						
Function	JFC/ Payband	JFC/Payband Description	First	Additional	First	Additional	Direct Labor Rate	First	Additional	First	Additional	Disconnect Discount Factor	Discounted Disconnect Cost First	Discounted Disconnect Cost Additional	Direct Cost First	Direct Cost Additional
Service Order	2300	Customer Point Of Contact - ICSC	0.7325	0.1667	0.0000	0.0000	$42.09	$30.8309	$7.0150	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$30.8309	$7.0150
														Total	**30.830925**	**7.015**

			Installation Worktimes		Disconnect Worktimes			Install Cost		Disconnect Cost						
Function	JFC/ Payband	JFC/Payband Description	First	Additional	First	Additional	TELRIC Labor Rate	First	Additional	First	Additional	Disconnect Discount Factor	Discounted Disconnect Cost First	Discounted Disconnect Cost Additional	TELRIC First	TELRIC Additional
Service Order	2300	Customer Point Of Contact - ICSC	0.7325	0.1667	0.0000	0.0000	$42.09	$30.8309	$7.0150	$0.0000	$0.0000	0.9073	$0.0000	$0.0000	$30.8309	$7.0150
														Total	**30.830925**	**7.015**

920000

Nonrecurring Cost Summary

Tennessee
P.1.5 - 2-Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Non-recurring Costs

11/19/99

Nonrecurring Cost

	Initial			Subsequent		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Nonrecurring Cost Development Sheet Col H			$0.0000	$0.7576	$0.0000	$0.7576
Total Cost	$0.0000	$0.0000	$0.0000	$0.7576	$0.0000	$0.7576
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$0.0000			$0.7591
Common Cost Factor			X 1.0000			X 1.0000
Nonrecurring Economic Cost			**$0.0000**			**$0.7591**

020027

Nonrecurring Cost Development

Tennessee
P.1.5 - 2-Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Non-recurring Costs

11/19/99

			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	Initial	Subsequent	Initial	Subsequent	Rate	Initial	Subsequent	Initial	Subsequent	Factor	Initial	Subsequent	Initial	Subsequent
Sub. Database Update-NRC	2300	Customer Point Of Contact - ICSC	0.0000	0.0180	0.0000	0.0000	$42.09	$0.0000	$0.7576	$0.0000	$0.0000	0.9221	$0.0000	$0.0000	$0.0000	$0.7576
														Total	0	0.75762

			Installation Worktimes		Disconnect Worktimes		TELRIC Labor	Install Cost		Disconnect Cost		Disconnect Discount	Discounted Disconnect Cost		TELRIC	
Function	JFC/ Payband	JFC/Payband Description	Initial	Subsequent	Initial	Subsequent	Rate	Initial	Subsequent	Initial	Subsequent	Factor	Initial	Subsequent	Initial	Subsequent
Sub. Database Update-NRC	2300	Customer Point Of Contact - ICSC	0.0000	0.0180	0.0000	0.0000	$42.09	$0.0000	$0.7576	$0.0000	$0.0000	0.9221	$0.0000	$0.0000	$0.0000	$0.7576
														Total	0	0.75762

820000

Nonrecurring Cost Summary

Tennessee

P.1.6 - 2 - Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Incremental Cost Manual Service Order vs. Electronic Service Order

11/19/99

Nonrecurring Cost

	Initial			Subsequent		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Nonrecurring Cost Development Sheet Col H			$0.0000	$7.9550	$0.0000	$7.9550
Total Cost	$0.0000	$0.0000	$0.0000	$7.9550	$0.0000	$7.9550
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$0.0000			$7.9701
Common Cost Factor			X 1.0000			X 1.0000
Nonrecurring Economic Cost			**$0.0000**			**$7.9701**

620029

Nonrecurring Cost Development

Tennessee

P.1.6 - 2 - Wire Voice Grade Loop / Line Port Combination - Subsequent Database Update - Incremental Cost Manual Service Order vs. Electronic Service Order

11/19/99

			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	Initial	Subsequent	Initial	Subsequent	Rate	Initial	Subsequent	Initial	Subsequent	Factor	Initial	Subsequent	Initial	Subsequent
Sub. Database Update-Incre	2300	Customer Point Of Contact - ICSC	0.0000	0.1890	0.0000	0.0000	$42.09	$0.0000	$7.9550	$0.0000	$0.0000	0.9221	$0.0000	$0.0000	$0.0000	$7.9550
														Total	0	7.95501

			Installation Worktimes		Disconnect Worktimes		TELRIC Labor	Install Cost		Disconnect Cost		Disconnect Discount	Discounted Disconnect Cost		TELRIC	
Function	JFC/ Payband	JFC/Payband Description	Initial	Subsequent	Initial	Subsequent	Rate	Initial	Subsequent	Initial	Subsequent	Factor	Initial	Subsequent	Initial	Subsequent
Sub. Database Update-Incre	2300	Customer Point Of Contact - ICSC	0.0000	0.1890	0.0000	0.0000	$42.09	$0.0000	$7.9550	$0.0000	$0.0000	0.9221	$0.0000	$0.0000	$0.0000	$7.9550
														Total	0	7.95501

000030

Recurring Cost Summary

Tennessee
P.3.1 - 2-Wire Voice Grade Loop

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$8.5610	$0.0000	$8.5610			$0.0000
Other Expenses						
Subscriber Line Testing	$0.7690	$0.0000	$0.7690	$0.0000	$0.0000	$0.0000
Total Monthly Cost	$9.3300	$0.0000	$9.3300	$0.0000	$0.0000	$0.0000
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$9.3478			$0.0000
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$10.7499			$0.0000

Total Monthly Economic Cost : $10.7499

000031

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

Tennessee
P.3.1 - 2-Wire Voice Grade Loop

11/19/99

	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 - Vendor EF&I - MCEP	377C	03	$16.6181	0.9966	$16.5616	1.0000	1.0000	1.1275	1.0000	1.0000	$18.6732	1.1008	$20.5555
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$6.8527	0.9867	$6.7613	1.0000	1.0000	1.0000	1.0000	1.5863	$10.7255	1.0168	$10.9057
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$24.2625	0.9867	$23.9390	1.0000	1.0000	1.0000	1.0800	1.0000	$25.8542	1.0168	$26.2885
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$6.6544	0.9867	$6.5657	1.0601	1.0000	1.0000	1.0800	1.0000	$7.5171	1.0168	$7.6434
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$0.9510	0.9867	$0.9383	1.0000	1.0000	1.0000	1.0000	1.5863	$1.4885	1.0126	$1.5073
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$4.3502	0.9867	$4.2922	1.0000	1.0000	1.0000	1.0800	1.0000	$4.6356	1.0126	$4.6940
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$2.9895	0.9867	$2.9496	1.0601	1.0000	1.0000	1.0800	1.0000	$3.3770	1.0126	$3.4196
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$17.5961	0.9867	$17.3615	1.0000	1.0000	1.0000	1.0000	1.5863	$27.5405	1.0126	$27.8876
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$35.1363	0.9867	$34.6678	1.0000	1.0000	1.0000	1.0800	1.0000	$37.4412	1.0126	$37.9130
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$24.1457	0.9867	$23.8238	1.0601	1.0000	1.0000	1.0800	1.0000	$27.2760	1.0126	$27.6197
Aerial Ca - Metal - Building Entrance	12C	00	$2.8467	1.0133	$2.8845	1.0000	10.1289	1.0000	1.0000	1.0000	$29.2170	1.0000	$29.2170
Aerial Ca - Metal	22C	00	$16.0468	1.0133	$16.2602	1.0000	4.8258	1.0000	1.0000	1.0000	$78.4685	1.0000	$78.4685
Aerial Ca - Metal 24-Guage	22C4	00	$0.3626	1.0133	$0.3674	1.0000	4.3180	1.0000	1.0000	1.0000	$1.5863	1.0000	$1.5863
Aerial Ca - Metal - Drop	22C	01	$24.7355	1.0133	$25.0645	1.0000	1.0000	1.0000	1.0000	1.0000	$25.0645	1.0000	$25.0645
Aerial Ca - Fiber - Building Entrance	812C	00	$0.0080	0.9933	$0.0080	1.0000	5.2961	1.0000	1.0000	1.0000	$0.0423	1.0000	$0.0423
Aerial Ca - Fiber	822C	00	$0.4469	0.9933	$0.4439	1.0000	2.0959	1.0000	1.0000	1.0000	$0.9304	1.0000	$0.9304
Buried Ca - Metal	45C	00	$9.5966	1.0303	$9.8874	1.0000	5.4626	1.0000	1.0000	1.0000	$54.0110	1.0000	$54.0110
Buried Ca - Metal 24-Guage	45C4	00	$2.1753	1.0303	$2.2412	1.0000	4.7773	1.0000	1.0000	1.0000	$10.7071	1.0000	$10.7071
Buried Ca - Metal - Drop	45C	01	$25.7894	1.0303	$26.5708	1.0000	1.0000	1.0000	1.0000	1.0000	$26.5708	1.0000	$26.5708
Buried Ca - Fiber	845C	00	$0.4859	1.0235	$0.4974	1.0000	4.3998	1.0000	1.0000	1.0000	$2.1883	1.0000	$2.1883
Underground Ca - Metal	5C	00	$12.4640	0.9964	$12.4196	1.0000	4.4226	1.0000	1.0000	1.0000	$54.9267	1.0000	$54.9267
Underground Ca - Fiber	85C	00	$1.0950	0.9767	$1.0695	1.0000	2.0800	1.0000	1.0000	1.0000	$2.2246	1.0000	$2.2246
Submarine Ca - Fiber	86C	00	$0.0044	1.0134	$0.0045	1.0000	1.0000	1.0000	1.0000	1.0000	$0.0045	1.0000	$0.0045
Intrbld Network - Metal	52C	00	$0.2688	0.9964	$0.2678	1.0000	13.6810	1.0000	1.0000	1.0000	$3.6643	1.0000	$3.6643

230000

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

Tennessee
P.3.1 - 2-Wire Voice Grade Loop

	FRC	Investment	
Land - COE	20C	$1.0482	= Sum of Col C
Buildings - COE	10C	$21.5351	= Sum of Col E
Poles	1C	$19.3763	= Sum of Col G
Conduit Systems	4C	$46.9213	= Sum of Col I

11/19/99

	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	$20.5555	0.0066	$0.1357	0.1356	$2.7873	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$10.9057	0.0066	$0.0720	0.1356	$1.4788	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$26.2885	0.0066	$0.1735	0.1356	$3.5647	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$7.6434	0.0066	$0.0504	0.1356	$1.0364	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$1.5073	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$4.6940	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$3.4196	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$27.8876	0.0066	$0.1841	0.1356	$3.7816	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$37.9130	0.0066	$0.2502	0.1356	$5.1410	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$27.6197	0.0066	$0.1823	0.1356	$3.7452	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal - Building Entrance	12C	00	$29.2170	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal	22C	00	$80.0549	0.0000	$0.0000	0.0000	$0.0000	0.2393	$19.1537	0.0000	$0.0000
Aerial Ca - Metal - Drop	22C	01	$25.0645	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Fiber - Building Entrance	812C	00	$0.0423	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Fiber	822C	00	$0.9304	0.0000	$0.0000	0.0000	$0.0000	0.2393	$0.2226	0.0000	$0.0000
Buried Ca - Metal	45C	00	$64.7181	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Buried Ca - Metal - Drop	45C	01	$26.5708	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Buried Ca - Fiber	845C	00	$2.1883	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Underground Ca - Metal	5C	00	$54.9267	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$45.0948
Underground Ca - Fiber	85C	00	$2.2246	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$1.8264
Submarine Ca - Fiber	86C	00	$0.0045	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Intrbld Network - Metal	52C	00	$3.6643	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
					$1.0482		$21.5351		$19.3763		$46.9213

000033

Recurring Cost Development
Volume Sensitive

Tennessee
P.3.1 - 2-Wire Voice Grade Loop

11/19/99

	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 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)
Land - COE	20C	$1.0482	0.0000	$0.0000	0.0993	$0.1041	0.0449	$0.0470	0.0000	$0.0000	0.0116	$0.0122	$0.1633	0.0000	$0.0000	$0.1633
Buildings - COE	10C	$21.5351	0.0230	$0.4958	0.0780	$1.6794	0.0352	$0.7586	0.0037	$0.0797	0.0116	$0.2507	$3.2642	0.0000	$0.0000	$3.2642
Digital Elec Switch	377C	$20.5555	0.0565	$1.1608	0.0667	$1.3702	0.0301	$0.6190	0.0371	$0.7626	0.0116	$0.2393	$4.1519	0.0000	$0.0000	$4.1519
Digtl Circ - Pair Gain	257C	$147.8787	0.0909	$13.4435	0.0626	$9.2510	0.0283	$4.1788	0.0164	$2.4252	0.0116	$1.7218	$31.0203	0.0000	$0.0000	$31.0203
Poles	1C	$19.3763	0.0400	$0.7751	0.0639	$1.2374	0.0288	$0.5590	0.0251	$0.4863	0.0116	$0.2256	$3.2834	0.0000	$0.0000	$3.2834
Aerial Ca - Metal - Building Entrance	12C	$29.2170	0.0575	$1.6800	0.0620	$1.8126	0.0280	$0.8188	0.0383	$1.1190	0.0116	$0.3402	$5.7705	0.0000	$0.0000	$5.7705
Aerial Ca - Metal	22C	$80.0549	0.0575	$4.6032	0.0620	$4.9665	0.0280	$2.2434	0.0383	$3.0661	0.0116	$0.9321	$15.8113	0.0000	$0.0000	$15.8113
Aerial Ca - Metal - Drop	22C	$25.0645	0.0575	$1.4412	0.0620	$1.5550	0.0280	$0.7024	0.0383	$0.9600	0.0116	$0.2918	$4.9504	0.0000	$0.0000	$4.9504
Aerial Ca - Fiber - Building Entrance	812C	$0.0423	0.0400	$0.0017	0.0667	$0.0028	0.0301	$0.0013	0.0041	$0.0002	0.0116	$0.0005	$0.0065	0.0000	$0.0000	$0.0065
Aerial Ca - Fiber	822C	$0.9304	0.0400	$0.0372	0.0667	$0.0621	0.0301	$0.0280	0.0041	$0.0038	0.0116	$0.0108	$0.1419	0.0000	$0.0000	$0.1419
Buried Ca - Metal	45C	$64.7181	0.0500	$3.2359	0.0658	$4.2613	0.0297	$1.9249	0.0237	$1.5338	0.0116	$0.7535	$11.7095	0.0000	$0.0000	$11.7095
Buried Ca - Metal - Drop	45C	$26.5708	0.0500	$1.3285	0.0658	$1.7496	0.0297	$0.7903	0.0237	$0.6297	0.0116	$0.3094	$4.8075	0.0000	$0.0000	$4.8075
Buried Ca - Fiber	845C	$2.1883	0.0363	$0.0795	0.0697	$0.1525	0.0315	$0.0689	0.0030	$0.0066	0.0116	$0.0255	$0.3329	0.0000	$0.0000	$0.3329
Underground Ca - Metal	5C	$54.9267	0.0432	$2.3728	0.0672	$3.6909	0.0304	$1.6673	0.0176	$0.9667	0.0116	$0.6395	$9.3373	0.0000	$0.0000	$9.3373
Underground Ca - Fiber	85C	$2.2246	0.0400	$0.0890	0.0667	$0.1484	0.0301	$0.0670	0.0101	$0.0225	0.0116	$0.0259	$0.3527	0.0000	$0.0000	$0.3527
Submarine Ca - Fiber	86C	$0.0045	0.0404	$0.0002	0.0693	$0.0003	0.0313	$0.0001	0.0012	$0.0000	0.0116	$0.0001	$0.0007	0.0000	$0.0000	$0.0007
Intrbld Network - Metal	52C	$3.6643	0.0500	$0.1832	0.0648	$0.2376	0.0293	$0.1073	0.0075	$0.0275	0.0116	$0.0427	$0.5983	0.0000	$0.0000	$0.5983
Conduit Systems	4C	$46.9213	0.0162	$0.7580	0.0834	$3.9117	0.0377	$1.7670	0.0010	$0.0469	0.0116	$0.5463	$7.0299	0.0000	$0.0000	$7.0299
Annual Total		$546.9214											$102.7325		$0.0000	$102.7325
Monthly Total (Annual Total / 12)													$8.5610		$0.0000	$8.5610

000034

Recurring Cost Summary

Tennessee
P.3.2 - Exchange Port - 2-Wire DID Trunk Port

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$7.1224	$0.0000	$7.1224			$0.0000
Other Expenses						
RTU	$0.0446	$0.0000	$0.0446	$0.0011	$0.0000	$0.0011
Total Monthly Cost	$7.1671	$0.0000	$7.1671	$0.0011	$0.0000	$0.0011
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$7.1807			$0.0011
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$8.2578			$0.0013

Total Monthly Economic Cost : $8.2591

000035

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

Tennessee
P.3.2 - Exchange Port - 2-Wire DID Trunk Port

11/19/99

	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 - Vendor EF&I - MCEP	377C	03	$51.6961	0.9966	$51.5203	1.0000	1.0000	1.1275	1.0000	1.0000	$58.0892	1.1008	$63.9446
Digtl Circ - Other - C.O. - Hardwired - MCEP	357C	03	$82.4824	0.9539	$78.6799	1.0000	1.0000	1.0000	1.0000	2.0912	$164.5354	1.0593	$174.2924
Digtl Circ - Other - C.O. - Com. Plug-in - MCEP	357C	06	$31.5765	0.9539	$30.1208	1.0000	1.0000	1.0000	1.0768	1.0000	$32.4341	1.0593	$34.3574
Digtl Circ - Other - C.O. - Def. Plug-in - MCEP With Sp. Stock	357C	09	$86.4000	0.9539	$82.4170	1.0601	1.0000	1.0000	1.0768	1.0000	$94.0803	1.0593	$99.6592

000035

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

Tennessee
P.3.2 - Exchange Port - 2-Wire DID Trunk Port

	FRC	Investment	
Land - COE	20C	$2.4569	= Sum of Col C
Buildings - COE	10C	$50.4776	= Sum of Col E

11/19/99

	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	$63.9446	0.0066	$0.4220	0.1356	$8.6709	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Other - C.O. - Hardwired - MCEP	357C	03	$174.2924	0.0066	$1.1503	0.1356	$23.6340	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Other - C.O. - Com. Plug-in - MCEP	357C	06	$34.3574	0.0066	$0.2268	0.1356	$4.6589	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Other - C.O. - Def. Plug-in - MCEP With Sp. Stock	357C	09	$99.6592	0.0066	$0.6578	0.1356	$13.5138	0.0000	$0.0000	0.0000	$0.0000
					$2.4569		$50.4776		$0.0000		$0.0000

000037

Recurring Cost Development
Volume Sensitive

Tennessee
P.3.2 - Exchange Port - 2-Wire DID Trunk Port

11/19/99

	FRC	A=Prev Page Col A Investment	B Depreciation Factor	C=(AxB) Depreciation	D Cost of Money Factor	E=(AxD) Cost of Money	F Income Tax Factor	G=(AxF) Income Tax	H Plant Specific Factor	I=(AxH) Plant Specific Expense	J Ad Valorem Factor	K=(AxJ) Ad Valorem Expense	L=(C+E+G+I+K) Direct Cost	M Shared Cost Factor	N=(AxM) Shared Cost	O=(L+N) TELRIC
Land - COE	20C	$2.4569	0.0000	$0.0000	0.0993	$0.2440	0.0449	$0.1102	0.0000	$0.0000	0.0116	$0.0286	$0.3828	0.0000	$0.0000	$0.3828
Buildings - COE	10C	$50.4776	0.0230	$1.1622	0.0780	$3.9364	0.0352	$1.7781	0.0037	$0.1868	0.0116	$0.5877	$7.6512	0.0000	$0.0000	$7.6512
Digital Elec Switch	377C	$63.9446	0.0565	$3.6110	0.0667	$4.2626	0.0301	$1.9255	0.0371	$2.3723	0.0116	$0.7445	$12.9159	0.0000	$0.0000	$12.9159
Digtl Circ - Other	357C	$308.3090	0.0909	$28.0281	0.0626	$19.2873	0.0283	$8.7124	0.0159	$4.9021	0.0116	$3.5896	$64.5195	0.0000	$0.0000	$64.5195
Annual Total		$425.1881											$85.4694		$0.0000	$85.4694
Monthly Total (Annual Total / 12)													$7.1224		$0.0000	$7.1224

000038

Nonrecurring Cost Summary

Tennessee
P.3.3 - 2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Non-recurring Costs

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$8.7406	$0.0000		$8.7406	$5.7405	$0.0000		$5.7405
Total Cost	$8.7406	$0.0000		$8.7406	$5.7405	$0.0000		$5.7405
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$8.7572				$5.7514
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$8.7572**				**$5.7514**

000039

Nonrecurring Cost Development

Tennessee

P.3.3 - 2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Non-recurring Costs

11/19/99

			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 Order	2300	Customer Point Of Contact - ICSC	0.0175	0.0175	0.0000	0.0000	$42.09	$0.7366	$0.7366	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$0.7366	$0.7366
Connect	470X	Circuit Provisioning Group (CPG)	0.1705	0.1230	0.0000	0.0000	$36.25	$6.1798	$4.4579	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$6.1798	$4.4579
Connect	400X	Address & Facility Inventory (AFIG)	0.0035	0.0000	0.0000	0.0000	$33.15	$0.1160	$0.0000	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$0.1160	$0.0000
Connect	2730	Network Services Clerical	0.0521	0.0167	0.0000	0.0000	$32.76	$1.7082	$0.5460	$0.0000	$0.0000	0.8198		$0.0000	$1.7082	$0.5460
														Total	**8.740561905**	**5.740461905**

			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 Order	2300	Customer Point Of Contact - ICSC	0.0175	0.0175	0.0000	0.0000	$42.09	$0.7366	$0.7366	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$0.7366	$0.7366
Connect	470X	Circuit Provisioning Group (CPG)	0.1705	0.1230	0.0000	0.0000	$36.25	$6.1798	$4.4579	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$6.1798	$4.4579
Connect	400X	Address & Facility Inventory (AFIG)	0.0035	0.0000	0.0000	0.0000	$33.15	$0.1160	$0.0000	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$0.1160	$0.0000
Connect	2730	Network Services Clerical	0.0521	0.0167	0.0000	0.0000	$32.76	$1.7082	$0.5460	$0.0000	$0.0000	0.8198		$0.0000	$1.7082	$0.5460
														Total	**8.740561905**	**5.740461905**

000040

Nonrecurring Cost Summary

Tennessee

P.3.4 - 2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Incremental Cost - Manual Svc Order vs. Electronic

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$41.3534	$0.0000		$41.3534	$9.7859	$0.0000		$9.7859
Total Cost	$41.3534	$0.0000		$41.3534	$9.7859	$0.0000		$9.7859
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$41.4320				$9.8045
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$41.4320**				**$9.8045**

000041

Nonrecurring Cost Development

Tennessee

P.3.4 - 2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Incremental Cost - Manual Svc Order vs. Electronic

11/19/99

			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 Order	2300	Customer Point Of Contact - ICSC	0.9825	0.2325	0.0000	0.0000	$42.09	$41.3534	$9.7859	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$41.3534	$9.7859
														Total	41.353425	9.785925

			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 Order	2300	Customer Point Of Contact - ICSC	0.9825	0.2325	0.0000	0.0000	$42.09	$41.3534	$9.7859	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$41.3534	$9.7869
														Total	41.353425	9.785925

000042

Recurring Cost Summary

Tennessee
P.4.2 - Exchange Port - 2-Wire ISDN Line Side Port

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$3.4725	$0.0000	$3.4725			$0.0000
Other Expenses						
RTU	$0.8203	$0.0000	$0.8203	$9.3480	$0.0000	$9.3480
Total Monthly Cost	$4.2928	$0.0000	$4.2928	$9.3480	$0.0000	$9.3480
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$4.3010			$9.3658
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$4.9461			$10.7706

Total Monthly Economic Cost : $15.7167

0000043

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

Tennessee
P.4.2 - Exchange Port - 2-Wire ISDN Line Side Port

11/19/99

	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 - Vendor EF&I - MCEP	377C	03	$150.6844	0.9966	$150.1720	1.0000	1.0000	1.1275	1.0000	1.0000	$169.3190	1.1008	$186.3863

0000044

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

Tennessee
P.4.2 - Exchange Port - 2-Wire ISDN Line Side Port

	FRC	Investment	
Land - COE	20C	$1.2301	= Sum of Col C
Buildings - COE	10C	$25.2740	= Sum of Col E

11/19/99

	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	$186.3863	0.0066	$1.2301	0.1356	$25.2740	0.0000	$0.0000	0.0000	$0.0000
					$1.2301		$25.2740		$0.0000		$0.0000

000045

Recurring Cost Development
Volume Sensitive

Tennessee
P.4.2 - Exchange Port - 2-Wire ISDN Line Side Port

11/19/99

	FRC	A=Prev Page Col A Investment	B Depreciation Factor	C=(AxB) Depreciation	D Cost of Money Factor	E=(AxD) Cost of Money	F Income Tax Factor	G=(AxF) Income Tax	H Plant Specific Factor	I=(AxH) Plant Specific Expense	J Ad Valorem Factor	K=(AxJ) Ad Valorem Expense	L=(C+E+G+I+K) Direct Cost	M Shared Cost Factor	N=(AxM) Shared Cost	O=(L+N) TELRIC
Land - COE	20C	$1.2301	0.0000	$0.0000	0.0993	$0.1222	0.0449	$0.0552	0.0000	$0.0000	0.0116	$0.0143	$0.1917	0.0000	$0.0000	$0.1917
Buildings - COE	10C	$25.2740	0.0230	$0.5819	0.0780	$1.9709	0.0352	$0.8903	0.0037	$0.0935	0.0116	$0.2943	$3.8309	0.0000	$0.0000	$3.8309
Digital Elec Switch	377C	$186.3863	0.0565	$10.5253	0.0667	$12.4247	0.0301	$5.6124	0.0371	$6.9149	0.0116	$2.1701	$37.6475	0.0000	$0.0000	$37.6475
Annual Total		$212.8905											$41.6701		$0.0000	$41.6701
Monthly Total (Annual Total / 12)													$3.4725		$0.0000	$3.4725

000045

Nonrecurring Cost Summary

Tennessee

P.4.3 - 2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non-recurring Costs

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$117.0072	$0.0000		$117.0072	$117.0072	$0.0000		$117.0072
Total Cost	$117.0072	$0.0000		$117.0072	$117.0072	$0.0000		$117.0072
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$117.2295				$117.2295
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$117.2295**				**$117.2295**

000047

Nonrecurring Cost Development

Tennessee

P.4.3 - 2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non-recurring Costs

11/19/99

			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 Order	2300	Customer Point Of Contact - ICSC	2.5000	2.5000	0.0000	0.0000	$42.09	$105.2250	$105.2250	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$105.2250	$105.2250
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.0667	0.0667	0.0000	0.0000	$38.26	$2.5519	$2.5519	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$2.5519	$2.5519
Connect	470X	Circuit Provisioning Group (CPG)	0.0402	0.0402	0.0000	0.0000	$36.25	$1.4573	$1.4573	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$1.4573	$1.4573
Connect	400X	Address & Facility Inventory (AFIG)	0.1500	0.1500	0.0000	0.0000	$33.15	$4.9725	$4.9725	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$4.9725	$4.9725
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0750	0.0750	0.0000	0.0000	$37.34	$2.8005	$2.8005	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$2.8005	$2.8005
														Total	117.007192	117.007192

			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 Order	2300	Customer Point Of Contact - ICSC	2.5000	2.5000	0.0000	0.0000	$42.09	$105.2250	$105.2250	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$105.2250	$105.2250
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.0667	0.0667	0.0000	0.0000	$38.26	$2.5519	$2.5519	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$2.5519	$2.5519
Connect	470X	Circuit Provisioning Group (CPG)	0.0402	0.0402	0.0000	0.0000	$36.25	$1.4573	$1.4573	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$1.4573	$1.4573
Connect	400X	Address & Facility Inventory (AFIG)	0.1500	0.1500	0.0000	0.0000	$33.15	$4.9725	$4.9725	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$4.9725	$4.9725
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0750	0.0750	0.0000	0.0000	$37.34	$2.8005	$2.8005	$0.0000	$0.0000	0.8248	$0.0000	$0.0000	$2.8005	$2.8005
														Total	117.007192	117.007192

000048

Nonrecurring Cost Summary

Tennessee

P.4.5 - 2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non Feature Subsequent Activity - Non-recurring Costs

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$212.4738	$0.0000		$212.4738
Total Cost	$212.4738	$0.0000		$212.4738
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$212.8775
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$212.8775**

000049

Nonrecurring Cost Development

Tennessee

P.4.5 - 2-Wire ISDN Digital Grade Loop / 2-Wire ISDN Line Side Port Combination - Non Feature Subsequent Activity - Non-recurring Costs

11/19/99

			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	2300	Customer Point Of Contact - ICSC	5.0000	0.0000	$42.09	$210.4500	$0.0000	0.8248	$0.0000	$210.4500
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0542	0.0000	$37.34	$2.0238	$0.0000	0.8248	$0.0000	$2.0238
									Total	**212.473828**

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	2300	Customer Point Of Contact - ICSC	5.0000	0.0000	$42.09	$210.4500	$0.0000	0.8248	$0.0000	$210.4500
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0542	0.0000	$37.34	$2.0238	$0.0000	0.8248	$0.0000	$2.0238
									Total	**212.473828**

000050

Recurring Cost Summary

Tennessee
P.5.1 - 4-Wire DS1 Digital Loop

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$53.5877	$0.0000	$53.5877			$0.0000
Total Monthly Cost	$53.5877	$0.0000	$53.5877	$0.0000	$0.0000	$0.0000
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$53.6895			$0.0000
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$61.7429			$0.0000

Total Monthly Economic Cost : $61.7429

000051

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

Tennessee
P.5.1 - 4-Wire DS1 Digital Loop

11/19/99

	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)							
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$138.4332	0.9867	$136.5875	1.0000	1.0000	1.0000	1.0000	1.5863	$216.6687	1.0168	$220.3087
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$228.7214	0.9867	$225.6719	1.0000	1.0000	1.0000	1.0800	1.0000	$243.7256	1.0168	$247.8202
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$382.6043	0.9867	$377.5031	1.0601	1.0000	1.0000	1.0800	1.0000	$432.2063	1.0168	$439.4673
Digtl Circ - Pair Gain - C.O. - Combined - MCEP	257C	15	$31.0501	0.9867	$30.6361	1.0000	1.2754	1.0000	1.0000	1.0000	$39.0733	1.0168	$39.7298
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$301.0872	0.9867	$297.0728	1.0000	1.0000	1.0000	1.0000	1.5863	$471.2465	1.0126	$477.1842
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$561.4027	0.9867	$553.9175	1.0000	1.0000	1.0000	1.0800	1.0000	$598.2309	1.0126	$605.7687
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$97.7113	0.9867	$96.4085	1.0601	1.0000	1.0000	1.0800	1.0000	$110.3788	1.0126	$111.7696
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$85.1052	0.9867	$83.9705	1.0000	1.0000	1.0000	1.0000	1.5863	$133.2023	1.0126	$134.8807
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$242.1148	0.9867	$238.8867	1.0000	1.0000	1.0000	1.0800	1.0000	$257.9976	1.0126	$261.2484
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$64.3294	0.9867	$63.4717	1.0601	1.0000	1.0000	1.0800	1.0000	$72.6693	1.0126	$73.5849
Digtl Circ - Pair Gain - Remote - Def. Plug-in - MCE Only With Sp. Stock	257C	44	$55.9877	0.9867	$55.2412	1.0601	1.0000	1.0000	1.0800	1.0000	$63.2461	1.0042	$63.5118
Aerial Ca - Metal - Building Entrance	12C	00	$0.8225	1.0133	$0.8334	1.0000	10.1289	1.0000	1.0000	1.0000	$8.4418	1.0000	$8.4418
Aerial Ca - Metal	22C	00	$4.5871	1.0133	$4.6481	1.0000	4.8258	1.0000	1.0000	1.0000	$22.4309	1.0000	$22.4309
Aerial Ca - Fiber - Building Entrance	812C	00	$8.2100	0.9933	$8.1549	1.0000	5.2961	1.0000	1.0000	1.0000	$43.1894	1.0000	$43.1894
Aerial Ca - Fiber	822C	00	$7.5531	0.9933	$7.5025	1.0000	2.0959	1.0000	1.0000	1.0000	$15.7244	1.0000	$15.7244
Buried Ca - Metal	45C	00	$5.5467	1.0303	$5.7148	1.0000	5.4626	1.0000	1.0000	1.0000	$31.2174	1.0000	$31.2174
Buried Ca - Fiber	845C	00	$9.4826	1.0235	$9.7057	1.0000	4.3998	1.0000	1.0000	1.0000	$42.7032	1.0000	$42.7032
Underground Ca - Metal	5C	00	$10.2054	0.9964	$10.1690	1.0000	4.4226	1.0000	1.0000	1.0000	$44.9733	1.0000	$44.9733
Underground Ca - Fiber	85C	00	$13.9076	0.9767	$13.5836	1.0000	2.0800	1.0000	1.0000	1.0000	$28.2539	1.0000	$28.2539

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

Tennessee
P.5.1 - 4-Wire DS1 Digital Loop

	FRC	Investment	
Land - COE	20C	$9.7716	= Sum of Col C
Buildings - COE	10C	$200.7628	= Sum of Col E
Poles	1C	$9.1289	= Sum of Col G
Conduit Systems	4C	$60.1195	= Sum of Col I

11/19/99

	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
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$220.3087	0.0066	$1.4540	0.1356	$29.8739	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$247.8202	0.0066	$1.6356	0.1356	$33.6044	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$439.4673	0.0066	$2.9005	0.1356	$59.5918	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Combined - MCEP	257C	15	$39.7298	0.0066	$0.2622	0.1356	$5.3874	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$477.1842	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$605.7687	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$111.7696	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$134.8807	0.0066	$0.8902	0.1356	$18.2898	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$261.2484	0.0066	$1.7242	0.1356	$35.4253	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$73.5849	0.0066	$0.4857	0.1356	$9.9781	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Def. Plug-in - MCE Only With Sp. Stock	257C	44	$63.5118	0.0066	$0.4192	0.1356	$8.6122	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal - Building Entrance	12C	00	$8.4418	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal	22C	00	$22.4309	0.0000	$0.0000	0.0000	$0.0000	0.2393	$5.3667	0.0000	$0.0000
Aerial Ca - Fiber - Building Entrance	812C	00	$43.1894	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Fiber	822C	00	$15.7244	0.0000	$0.0000	0.0000	$0.0000	0.2393	$3.7622	0.0000	$0.0000
Buried Ca - Metal	45C	00	$31.2174	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Buried Ca - Fiber	845C	00	$42.7032	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Underground Ca - Metal	5C	00	$44.9733	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$36.9231
Underground Ca - Fiber	85C	00	$28.2539	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$23.1964
					$9.7716		$200.7628		$9.1289		$60.1195

000053

Recurring Cost Development
Volume Sensitive

Tennessee
P.5.1 - 4-Wire DS1 Digital Loop

11/19/99		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	20C	$9.7716	0.0000	$0.0000	0.0993	$0.9703	0.0449	$0.4383	0.0000	$0.0000	0.0116	$0.1138	$1.5224	0.0000	$0.0000	$1.5224
Buildings - COE	10C	$200.7628	0.0230	$4.6222	0.0780	$15.6561	0.0352	$7.0721	0.0037	$0.7428	0.0116	$2.3375	$30.4307	0.0000	$0.0000	$30.4307
Digtl Circ - Pair Gain	257C	$2,675.2743	0.0909	$243.2068	0.0626	$167.3605	0.0283	$75.5993	0.0164	$43.8745	0.0116	$31.1482	$561.1892	0.0000	$0.0000	$561.1892
Poles	1C	$9.1289	0.0400	$0.3652	0.0639	$0.5830	0.0288	$0.2633	0.0251	$0.2291	0.0116	$0.1063	$1.5469	0.0000	$0.0000	$1.5469
Aerial Ca - Metal - Building Entrance	12C	$8.4418	0.0575	$0.4854	0.0620	$0.5237	0.0280	$0.2366	0.0383	$0.3233	0.0116	$0.0983	$1.6673	0.0000	$0.0000	$1.6673
Aerial Ca - Metal	22C	$22.4309	0.0575	$1.2898	0.0620	$1.3916	0.0280	$0.6286	0.0383	$0.8591	0.0116	$0.2612	$4.4302	0.0000	$0.0000	$4.4302
Aerial Ca - Fiber - Building Entrance	812C	$43.1894	0.0400	$1.7276	0.0667	$2.8804	0.0301	$1.3011	0.0041	$0.1771	0.0116	$0.5029	$6.5890	0.0000	$0.0000	$6.5890
Aerial Ca - Fiber	822C	$15.7244	0.0400	$0.6290	0.0667	$1.0487	0.0301	$0.4737	0.0041	$0.0645	0.0116	$0.1831	$2.3989	0.0000	$0.0000	$2.3989
Buried Ca - Metal	45C	$31.2174	0.0500	$1.5609	0.0658	$2.0555	0.0297	$0.9285	0.0237	$0.7399	0.0116	$0.3635	$5.6482	0.0000	$0.0000	$5.6482
Buried Ca - Fiber	845C	$42.7032	0.0363	$1.5515	0.0697	$2.9756	0.0315	$1.3441	0.0030	$0.1281	0.0116	$0.4972	$6.4966	0.0000	$0.0000	$6.4966
Underground Ca - Metal	5C	$44.9733	0.0432	$1.9428	0.0672	$3.0221	0.0304	$1.3651	0.0176	$0.7915	0.0116	$0.5236	$7.6452	0.0000	$0.0000	$7.6452
Underground Ca - Fiber	85C	$28.2539	0.0400	$1.1302	0.0667	$1.8843	0.0301	$0.8512	0.0101	$0.2854	0.0116	$0.3290	$4.4800	0.0000	$0.0000	$4.4800
Conduit Systems	4C	$60.1195	0.0162	$0.9712	0.0834	$5.0121	0.0377	$2.2640	0.0010	$0.0601	0.0116	$0.7000	$9.0073	0.0000	$0.0000	$9.0073
Annual Total		$3,191.9916											$643.0521		$0.0000	$643.0521
Monthly Total (Annual Total / 12)													$53.5877		$0.0000	$53.5877

000054

Recurring Cost Summary

Tennessee
P.5.2 - Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port

11/19/99

	Volume Sensitive				Volume Insensitive			
	Direct Cost	Shared Cost	TELRIC		Direct Cost	Shared Cost	TELRIC	
Recurring Cost Devel. Sheets Cols L, N, & O	$33.5379	$0.0000	$33.5379				$0.0000	
Other Expenses								
RTU	$21.0905	$0.0000	$21.0905		$9.2715	$0.0000	$9.2715	
Total Monthly Cost	$54.6284	$0.0000	$54.6284		$9.2715	$0.0000	$9.2715	
Gross Receipts Tax Factor			1.0019	X			1.0019	X
Cost (including Gross Receipts Tax)			$54.7322				$9.2891	
Common Cost Factor			1.1500	X			1.1500	X
Monthly Economic Cost			$62.9421				$10.6824	

Total Monthly Economic Cost : $73.6245

000055

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

Tennessee
P.5.2 - Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port

11/19/99

	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 - Vendor EF&I - MCEP	377C	03	$1,423.9518	0.9966	$1,419.1104	1.0000	1.0000	1.1275	1.0000	1.0000	$1,600.0470	1.1008	$1,761.3317
Digtl Circ - Other - C.O. - Hardwired - MCEP	357C	03	$17.7882	0.9539	$16.9682	1.0000	1.0000	1.0000	1.0000	2.0912	$35.4839	1.0593	$37.5881

000056

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

Tennessee
P.5.2 - Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port

	FRC	Investment	
Land - COE	20C	$11.8729	= Sum of Col C
Buildings - COE	10C	$243.9335	= Sum of Col E

11/19/99

	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	$1,761.3317	0.0066	$11.6248	0.1356	$238.8366	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Other - C.O. - Hardwired - MCEP	357C	03	$37.5881	0.0066	$0.2481	0.1356	$5.0969	0.0000	$0.0000	0.0000	$0.0000
					$11.8729		$243.9335		$0.0000		$0.0000

000057

Recurring Cost Development
Volume Sensitive

Tennessee
P.5.2 - Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port

11/19/99

	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 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)
Land - COE	20C	$11.8729	0.0000	$0.0000	0.0993	$1.1790	0.0449	$0.5326	0.0000	$0.0000	0.0116	$0.1382	$1.8498	0.0000	$0.0000	$1.8498
Buildings - COE	10C	$243.9335	0.0230	$5.6161	0.0780	$19.0227	0.0352	$8.5928	0.0037	$0.9026	0.0116	$2.8401	$36.9743	0.0000	$0.0000	$36.9743
Digital Elec Switch	377C	$1,761.3317	0.0565	$99.4634	0.0667	$117.4121	0.0301	$53.0369	0.0371	$65.3454	0.0116	$20.5072	$355.7651	0.0000	$0.0000	$355.7651
Digtl Circ - Other	357C	$37.5881	0.0909	$3.4171	0.0626	$2.3514	0.0283	$1.0622	0.0159	$0.5977	0.0116	$0.4376	$7.8660	0.0000	$0.0000	$7.8660
Annual Total		$2,054.7262											$402.4552		$0.0000	$402.4552
Monthly Total (Annual Total / 12)													$33.5379		$0.0000	$33.5379

000058

Nonrecurring Cost Summary

Tennessee

P.5.3 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Non-recurring Costs

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$327.9079	$0.0000		$327.9079	$327.9079	$0.0000		$327.9079
Total Cost	$327.9079	$0.0000		$327.9079	$327.9079	$0.0000		$327.9079
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$328.5309				$328.5309
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$328.5309**				**$328.5309**

000059

Nonrecurring Cost Development

Tennessee
P.5.3 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Non-recurring Costs

11/19/99

			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 Order	2300	Customer Point Of Contact - ICSC	6.2500	6.2500	0.0000	0.0000	$42.09	$263.0625	$263.0625	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$263.0625	$263.0625
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.0667	0.0667	0.0000	0.0000	$38.26	$2.5519	$2.5519	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$2.5519	$2.5519
Connect	431X	CO Install & Mtce Field - Ckt & Fac	0.3333	0.3333	0.0000	0.0000	$42.17	$14.0553	$14.0553	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$14.0553	$14.0553
Connect	470X	Circuit Provisioning Group (CPG)	0.9167	0.9167	0.0000	0.0000	$36.25	$33.2304	$33.2304	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$33.2304	$33.2304
Connect	4N2X	Switch & Trunk Based Translations	0.3333	0.3333	0.0000	0.0000	$44.63	$14.8752	$14.8752	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$14.8752	$14.8752
Connect	400X	Address & Facility Inventory (AFIG)	0.0040	0.0040	0.0000	0.0000	$33.15	$0.1326	$0.1326	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$0.1326	$0.1326
														Total	327.907857	327.907857

			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 Order	2300	Customer Point Of Contact - ICSC	6.2500	6.2500	0.0000	0.0000	$42.09	$263.0625	$263.0625	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$263.0625	$263.0625
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.0667	0.0667	0.0000	0.0000	$38.26	$2.5519	$2.5519	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$2.5519	$2.5519
Connect	431X	CO Install & Mtce Field - Ckt & Fac	0.3333	0.3333	0.0000	0.0000	$42.17	$14.0553	$14.0553	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$14.0553	$14.0553
Connect	470X	Circuit Provisioning Group (CPG)	0.9167	0.9167	0.0000	0.0000	$36.25	$33.2304	$33.2304	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$33.2304	$33.2304
Connect	4N2X	Switch & Trunk Based Translations	0.3333	0.3333	0.0000	0.0000	$44.63	$14.8752	$14.8752	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$14.8752	$14.8752
Connect	400X	Address & Facility Inventory (AFIG)	0.0040	0.0040	0.0000	0.0000	$33.15	$0.1326	$0.1326	$0.0000	$0.0000	0.7675	$0.0000	$0.0000	$0.1326	$0.1326
														Total	327.907857	327.907857

020000

Nonrecurring Cost Summary

Tennessee

P.5.5 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Channel Activation - Per Channel

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$28.3329	$0.0000		$28.3329
Total Cost	$28.3329	$0.0000		$28.3329
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$28.3868
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$28.3868**

000061

Nonrecurring Cost Development

Tennessee

P.5.5 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Channel Activation - Per Channel

11/19/99

			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**
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.2500	0.0000	$38.26	$9.5650	$0.0000	0.7675	$0.0000	$9.5650
Connect	470X	Circuit Provisioning Group (CPG)	0.3125	0.0000	$36.25	$11.3281	$0.0000	0.7675	$0.0000	$11.3281
Connect	4N2X	Switch & Trunk Based Translations	0.1667	0.0000	$44.63	$7.4398	$0.0000	0.7675	$0.0000	$7.4398
									Total	**28.332946**

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	4AXX	Acc Cust Advocate Cntr (ACAC)	0.2500	0.0000	$38.26	$9.5650	$0.0000	0.7675	$0.0000	$9.5650
Connect	470X	Circuit Provisioning Group (CPG)	0.3125	0.0000	$36.25	$11.3281	$0.0000	0.7675	$0.0000	$11.3281
Connect	4N2X	Switch & Trunk Based Translations	0.1667	0.0000	$44.63	$7.4398	$0.0000	0.7675	$0.0000	$7.4398
									Total	**28.332946**

Nonrecurring Cost Summary

Tennessee

P.5.6 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward/2way Telephone Numbers

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$0.9335	$0.0000		$0.9335
Total Cost	$0.9335	$0.0000		$0.9335
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$0.9353
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$0.9353**

000063

Nonrecurring Cost Development

Tennessee

P.5.6 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward/2way Telephone Numbers

11/19/99

			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**
Connect	4N1X	Recent Chng Line Trans (RCMAG)	0.0250	0.0000	$37.34	$0.9335	$0.0000	0.7675	$0.0000	$0.9335
									Total	**0.9335**

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	4N1X	Recent Chng Line Trans (RCMAG)	0.0250	0.0000	$37.34	$0.9335	$0.0000	0.7675	$0.0000	$0.9335
									Total	**0.9335**

0000054

Nonrecurring Cost Summary

Tennessee

P.5.7 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Outward Telephone Numbers

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$22.3150	$0.0000		$22.3150
Total Cost	$22.3150	$0.0000		$22.3150
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$22.3574
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$22.3574**

Nonrecurring Cost Development

Tennessee

P.5.7 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Outward Telephone Numbers

11/19/99

			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**
Connect	4N2X	Switch & Trunk Based Translations	0.5000	0.0000	$44.63	$22.3150	$0.0000	0.7675	$0.0000	$22.3150
									Total	**22.315**

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	4N2X	Switch & Trunk Based Translations	0.5000	0.0000	$44.63	$22.3150	$0.0000	0.7675	$0.0000	$22.3150
									Total	**22.315**

Nonrecurring Cost Summary

Tennessee

P.5.8 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward Telephone Numbers

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$44.6300	$0.0000		$44.6300
Total Cost	$44.6300	$0.0000		$44.6300
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$44.7148
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$44.7148**

Nonrecurring Cost Development

Tennessee

P.5.8 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Inward Telephone Numbers

11/19/99

			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**
Connect	4N2X	Switch & Trunk Based Translations	1.0000	0.0000	$44.63	$44.6300	$0.0000	0.7675	$0.0000	$44.6300
									Total	**44.63**

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	4N2X	Switch & Trunk Based Translations	1.0000	0.0000	$44.63	$44.6300	$0.0000	0.7675	$0.0000	$44.6300
									Total	**44.63**

000068

Nonrecurring Cost Summary

Tennessee

P.5.9 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Service Order Per Order

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$189.4050	$0.0000		$189.4050
Total Cost	$189.4050	$0.0000		$189.4050
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$189.7649
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$189.7649**

690069

Nonrecurring Cost Development

Tennessee

P.5.9 - 4-Wire DS1 Digital Loop / 4-Wire ISDN DS1 Digital Trunk Port Combination - Subsequent Service Order Per Order

11/19/99

			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	2300	Customer Point Of Contact - ICSC	4.5000	0.0000	$42.09	$189.4050	$0.0000	0.7675	$0.0000	$189.4050
									Total	**189.405**

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	2300	Customer Point Of Contact - ICSC	4.5000	0.0000	$42.09	$189.4050	$0.0000	0.7675	$0.0000	$189.4050
									Total	**189.405**

020000

Recurring Cost Summary

Tennessee
P.15.1 - 4-Wire DS1 Digital Loop

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$53.5877	$0.0000	$53.5877			$0.0000
Total Monthly Cost	$53.5877	$0.0000	$53.5877	$0.0000	$0.0000	$0.0000
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$53.6895			$0.0000
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$61.7429			$0.0000

Total Monthly Economic Cost : $61.7429

000071

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

Tennessee
P.15.1 - 4-Wire DS1 Digital Loop

11/19/99

	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
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$138.4332	0.9867	$136.5875	1.0000	1.0000	1.0000	1.0000	1.5863	$216.6687	1.0168	$220.3087
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$228.7214	0.9867	$225.6719	1.0000	1.0000	1.0000	1.0800	1.0000	$243.7256	1.0168	$247.8202
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$382.6043	0.9867	$377.5031	1.0601	1.0000	1.0000	1.0800	1.0000	$432.2063	1.0168	$439.4673
Digtl Circ - Pair Gain - C.O. - Combined - MCEP	257C	15	$31.0501	0.9867	$30.6361	1.0000	1.2754	1.0000	1.0000	1.0000	$39.0733	1.0168	$39.7298
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$301.0872	0.9867	$297.0728	1.0000	1.0000	1.0000	1.0000	1.5863	$471.2465	1.0126	$477.1842
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$561.4027	0.9867	$553.9175	1.0000	1.0000	1.0000	1.0800	1.0000	$598.2309	1.0126	$605.7687
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$97.7113	0.9867	$96.4085	1.0601	1.0000	1.0000	1.0800	1.0000	$110.3788	1.0126	$111.7696
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$85.1052	0.9867	$83.9705	1.0000	1.0000	1.0000	1.0000	1.5863	$133.2023	1.0126	$134.8807
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$242.1148	0.9867	$238.8867	1.0000	1.0000	1.0000	1.0800	1.0000	$257.9976	1.0126	$261.2484
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$64.3294	0.9867	$63.4717	1.0601	1.0000	1.0000	1.0800	1.0000	$72.6693	1.0126	$73.5849
Digtl Circ - Pair Gain - Remote - Def. Plug-in - MCE Only With Sp. Stock	257C	44	$55.9877	0.9867	$55.2412	1.0601	1.0000	1.0000	1.0800	1.0000	$63.2461	1.0042	$63.5118
Aerial Ca - Metal - Building Entrance	12C	00	$0.8225	1.0133	$0.8334	1.0000	10.1289	1.0000	1.0000	1.0000	$8.4418	1.0000	$8.4418
Aerial Ca - Metal	22C	00	$4.5871	1.0133	$4.6481	1.0000	4.8258	1.0000	1.0000	1.0000	$22.4309	1.0000	$22.4309
Aerial Ca - Fiber - Building Entrance	812C	00	$8.2100	0.9933	$8.1549	1.0000	5.2961	1.0000	1.0000	1.0000	$43.1894	1.0000	$43.1894
Aerial Ca - Fiber	822C	00	$7.5531	0.9933	$7.5025	1.0000	2.0959	1.0000	1.0000	1.0000	$15.7244	1.0000	$15.7244
Buried Ca - Metal	45C	00	$5.5467	1.0303	$5.7148	1.0000	5.4626	1.0000	1.0000	1.0000	$31.2174	1.0000	$31.2174
Buried Ca - Fiber	845C	00	$9.4826	1.0235	$9.7057	1.0000	4.3998	1.0000	1.0000	1.0000	$42.7032	1.0000	$42.7032
Underground Ca - Metal	5C	00	$10.2054	0.9964	$10.1690	1.0000	4.4226	1.0000	1.0000	1.0000	$44.9733	1.0000	$44.9733
Underground Ca - Fiber	85C	00	$13.9076	0.9767	$13.5836	1.0000	2.0800	1.0000	1.0000	1.0000	$28.2539	1.0000	$28.2539

000072

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

Tennessee
P.15.1 - 4-Wire DS1 Digital Loop

	FRC	Investment	
Land - COE	20C	$9.7716	= Sum of Col C
Buildings - COE	10C	$200.7628	= Sum of Col E
Poles	1C	$9.1289	= Sum of Col G
Conduit Systems	4C	$60.1195	= Sum of Col I

11/19/99

	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
Digtl Circ - Pair Gain - C.O. - Hardwired - MCEP	257C	03	$220.3087	0.0066	$1.4540	0.1356	$29.8739	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Com. Plug-in - MCEP	257C	06	$247.8202	0.0066	$1.6356	0.1356	$33.6044	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Def. Plug-in - MCEP With Sp. Stock	257C	09	$439.4673	0.0066	$2.9005	0.1356	$59.5918	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - C.O. - Combined - MCEP	257C	15	$39.7298	0.0066	$0.2622	0.1356	$5.3874	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Hardwired - Power Only	257C	19	$477.1842	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Com. Plug-in - Power Only	257C	22	$605.7687	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Prem - Def. Plug-in - Power Only With Sp. Stock	257C	25	$111.7696	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Hardwired - Power Only	257C	37	$134.8807	0.0066	$0.8902	0.1356	$18.2898	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Com. Plug-in - Power Only	257C	40	$261.2484	0.0066	$1.7242	0.1356	$35.4253	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Def. Plug-in - Power Only With Sp. Stock	257C	43	$73.5849	0.0066	$0.4857	0.1356	$9.9781	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Pair Gain - Remote - Def. Plug-in - MCE Only With Sp. Stock	257C	44	$63.5118	0.0066	$0.4192	0.1356	$8.6122	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal - Building Entrance	12C	00	$8.4418	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Metal	22C	00	$22.4309	0.0000	$0.0000	0.0000	$0.0000	0.2393	$5.3667	0.0000	$0.0000
Aerial Ca - Fiber - Building Entrance	812C	00	$43.1894	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Aerial Ca - Fiber	822C	00	$15.7244	0.0000	$0.0000	0.0000	$0.0000	0.2393	$3.7622	0.0000	$0.0000
Buried Ca - Metal	45C	00	$31.2174	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Buried Ca - Fiber	845C	00	$42.7032	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000
Underground Ca - Metal	5C	00	$44.9733	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$36.9231
Underground Ca - Fiber	85C	00	$28.2539	0.0000	$0.0000	0.0000	$0.0000	0.0000	$0.0000	0.8210	$23.1964
					$9.7716		$200.7628		$9.1289		$60.1195

000073

Recurring Cost Development
Volume Sensitive

Tennessee
P.15.1 - 4-Wire DS1 Digital Loop

11/19/99

	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 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)
Land - COE	20C	$9.7716	0.0000	$0.0000	0.0993	$0.9703	0.0449	$0.4383	0.0000	$0.0000	0.0116	$0.1138	$1.5224	0.0000	$0.0000	$1.5224
Buildings - COE	10C	$200.7628	0.0230	$4.6222	0.0780	$15.6561	0.0352	$7.0721	0.0037	$0.7428	0.0116	$2.3375	$30.4307	0.0000	$0.0000	$30.4307
Digtl Circ - Pair Gain	257C	$2,675.2743	0.0909	$243.2068	0.0626	$167.3605	0.0283	$75.5993	0.0164	$43.8745	0.0116	$31.1482	$561.1892	0.0000	$0.0000	$561.1892
Poles	1C	$9.1289	0.0400	$0.3652	0.0639	$0.5830	0.0288	$0.2633	0.0251	$0.2291	0.0116	$0.1063	$1.5469	0.0000	$0.0000	$1.5469
Aerial Ca - Metal - Building Entrance	12C	$8.4418	0.0575	$0.4854	0.0620	$0.5237	0.0280	$0.2366	0.0383	$0.3233	0.0116	$0.0983	$1.6673	0.0000	$0.0000	$1.6673
Aerial Ca - Metal	22C	$22.4309	0.0575	$1.2898	0.0620	$1.3916	0.0280	$0.6286	0.0383	$0.8591	0.0116	$0.2612	$4.4302	0.0000	$0.0000	$4.4302
Aerial Ca - Fiber - Building Entrance	812C	$43.1894	0.0400	$1.7276	0.0667	$2.8804	0.0301	$1.3011	0.0041	$0.1771	0.0116	$0.5029	$6.5890	0.0000	$0.0000	$6.5890
Aerial Ca - Fiber	822C	$15.7244	0.0400	$0.6290	0.0667	$1.0487	0.0301	$0.4737	0.0041	$0.0645	0.0116	$0.1831	$2.3989	0.0000	$0.0000	$2.3989
Buried Ca - Metal	45C	$31.2174	0.0500	$1.5609	0.0658	$2.0555	0.0297	$0.9285	0.0237	$0.7399	0.0116	$0.3635	$5.6482	0.0000	$0.0000	$5.6482
Buried Ca - Fiber	845C	$42.7032	0.0363	$1.5515	0.0697	$2.9756	0.0315	$1.3441	0.0030	$0.1281	0.0116	$0.4972	$6.4966	0.0000	$0.0000	$6.4966
Underground Ca - Metal	5C	$44.9733	0.0432	$1.9428	0.0672	$3.0221	0.0304	$1.3651	0.0176	$0.7915	0.0116	$0.5236	$7.6452	0.0000	$0.0000	$7.6452
Underground Ca - Fiber	85C	$28.2539	0.0400	$1.1302	0.0667	$1.8843	0.0301	$0.8512	0.0101	$0.2854	0.0116	$0.3290	$4.4800	0.0000	$0.0000	$4.4800
Conduit Systems	4C	$60.1195	0.0162	$0.9712	0.0834	$5.0121	0.0377	$2.2640	0.0010	$0.0601	0.0116	$0.7000	$9.0073	0.0000	$0.0000	$9.0073
Annual Total		$3,191.9916											$643.0521		$0.0000	$643.0521
Monthly Total (Annual Total / 12)													$53.5877		$0.0000	$53.5877

000074

Recurring Cost Summary

Tennessee
P.15.2 - Exchange Port - 4-Wire DID Trunk Port

11/19/99

	Volume Sensitive			Volume Insensitive		
	Direct Cost	Shared Cost	TELRIC	Direct Cost	Shared Cost	TELRIC
Recurring Cost Devel. Sheets Cols L, N, & O	$29.3151	$0.0000	$29.3151			$0.0000
Other Expenses						
RTU	$1.0709	$0.0000	$1.0709	$0.0274	$0.0000	$0.0274
Total Monthly Cost	$30.3859	$0.0000	$30.3859	$0.0274	$0.0000	$0.0274
Gross Receipts Tax Factor			X 1.0019			X 1.0019
Cost (including Gross Receipts Tax)			$30.4437			$0.0274
Common Cost Factor			X 1.1500			X 1.1500
Monthly Economic Cost			$35.0102			$0.0315

Total Monthly Economic Cost : $35.0417

000075

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

Tennessee
P.15.2 - Exchange Port - 4-Wire DID Trunk Port

11/19/99

	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 - Vendor EF&I - MCEP	377C	03	$1,240.7066	0.9966	$1,236.4882	1.0000	1.0000	1.1275	1.0000	1.0000	$1,394.1405	1.1008	$1,534.6699
Digtl Circ - Other - C.O. - Hardwired - MCEP	357C	03	$17.7882	0.9539	$16.9682	1.0000	1.0000	1.0000	1.0000	2.0912	$35.4839	1.0593	$37.5881

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

Tennessee
P.15.2 - Exchange Port - 4-Wire DID Trunk Port

	FRC	Investment	
Land - COE	20C	$10.3769	= Sum of Col C
Buildings - COE	10C	$213.1982	= Sum of Col E

11/19/99

	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	$1,534.6699	0.0066	$10.1288	0.1356	$208.1012	0.0000	$0.0000	0.0000	$0.0000
Digtl Circ - Other - C.O. - Hardwired - MCEP	357C	03	$37.5881	0.0066	$0.2481	0.1356	$5.0969	0.0000	$0.0000	0.0000	$0.0000
					$10.3769		$213.1982		$0.0000		$0.0000

000077

Recurring Cost Development
Volume Sensitive

Tennessee
P.15.2 - Exchange Port - 4-Wire DID Trunk Port

11/19/99

	FRC	A=Prev Page Col A Investment	B Depreciation Factor	C=(AxB) Depreciation	D Cost of Money Factor	E=(AxD) Cost of Money	F Income Tax Factor	G=(AxF) Income Tax	H Plant Specific Factor	I=(AxH) Plant Specific Expense	J Ad Valorem Factor	K=(AxJ) Ad Valorem Expense	L=(C+E+G+I+K) Direct Cost	M Shared Cost Factor	N=(AxM) Shared Cost	O=(L+N) TELRIC
Land - COE	20C	$10.3769	0.0000	$0.0000	0.0993	$1.0304	0.0449	$0.4655	0.0000	$0.0000	0.0116	$0.1208	$1.6167	0.0000	$0.0000	$1.6167
Buildings - COE	10C	$213.1982	0.0230	$4.9085	0.0780	$16.6258	0.0352	$7.5102	0.0037	$0.7888	0.0116	$2.4823	$32.3156	0.0000	$0.0000	$32.3156
Digital Elec Switch	377C	$1,534.6699	0.0565	$86.6637	0.0667	$102.3026	0.0301	$46.2117	0.0371	$56.9363	0.0116	$17.8682	$309.9824	0.0000	$0.0000	$309.9824
Digtl Circ - Other	357C	$37.5881	0.0909	$3.4171	0.0626	$2.3514	0.0283	$1.0622	0.0159	$0.5977	0.0116	$0.4376	$7.8660	0.0000	$0.0000	$7.8660
Annual Total		$1,795.8330											$351.7808		$0.0000	$351.7808
Monthly Total (Annual Total / 12)													$29.3151		$0.0000	$29.3151

000078

Nonrecurring Cost Summary

Tennessee
P.15.3 - 4-wire DS1 Digital Loop / 4-wire DID Trunk Port Combination - Non-recurring Costs

11/19/99

Nonrecurring Cost

	First				Additional			
	Direct Cost	Shared Cost		TELRIC	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$312.3158	$0.0000		$312.3158	$312.3158	$0.0000		$312.3158
Total Cost	$312.3158	$0.0000		$312.3158	$312.3158	$0.0000		$312.3158
Gross Receipts Tax Factor			X	1.0019			X	1.0019
Cost (including Gross Receipts Tax)				$312.9092				$312.9092
Common Cost Factor			X	1.0000			X	1.0000
Nonrecurring Economic Cost				**$312.9092**				**$312.9092**

Nonrecurring Cost Development

Tennessee

P.15.3 - 4-wire DS1 Digital Loop / 4-wire DID Trunk Port Combination - Non-recurring Costs

11/19/99

			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 Order	2300	Customer Point Of Contact - ICSC	5.7000	5.7000	0.0000	0.0000	$42.09	$239.9130	$239.9130	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$239.9130	$239.9130
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.1667	0.1667	0.0000	0.0000	$38.26	$6.3779	$6.3779	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$6.3779	$6.3779
Connect	431X	CO Install & Mtce Field - Ckt & Fac	0.3333	0.3333	0.0000	0.0000	$42.17	$14.0553	$14.0553	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$14.0553	$14.0553
Connect	470X	Circuit Provisioning Group (CPG)	0.6917	0.6917	0.0000	0.0000	$36.25	$25.0741	$25.0741	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$25.0741	$25.0741
Connect	400X	Address & Facility Inventory (AFIG)	0.0116	0.0116	0.0000	0.0000	$33.15	$0.3845	$0.3845	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$0.3845	$0.3845
Connect	32XX	Outside Plant Eng (FG30)	0.5000	0.5000	0.0000	0.0000	$50.84	$25.4200	$25.4200	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$25.4200	$25.4200
Connect	2730	Network Services Clerical	0.0333	0.0333	0.0000	0.0000	$32.76	$1.0909	$1.0909	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$1.0909	$1.0909
														Total	312.315776	312.315776

			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 Order	2300	Customer Point Of Contact - ICSC	5.7000	5.7000	0.0000	0.0000	$42.09	$239.9130	$239.9130	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$239.9130	$239.9130
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.1667	0.1667	0.0000	0.0000	$38.26	$6.3779	$6.3779	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$6.3779	$6.3779
Connect	431X	CO Install & Mtce Field - Ckt & Fac	0.3333	0.3333	0.0000	0.0000	$42.17	$14.0553	$14.0553	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$14.0553	$14.0553
Connect	470X	Circuit Provisioning Group (CPG)	0.6917	0.6917	0.0000	0.0000	$36.25	$25.0741	$25.0741	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$25.0741	$25.0741
Connect	400X	Address & Facility Inventory (AFIG)	0.0116	0.0116	0.0000	0.0000	$33.15	$0.3845	$0.3845	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$0.3845	$0.3845
Connect	32XX	Outside Plant Eng (FG30)	0.5000	0.5000	0.0000	0.0000	$50.84	$25.4200	$25.4200	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$25.4200	$25.4200
Connect	2730	Network Services Clerical	0.0333	0.0333	0.0000	0.0000	$32.76	$1.0909	$1.0909	$0.0000	$0.0000	0.8198	$0.0000	$0.0000	$1.0909	$1.0909
														Total	312.315776	312.315776

000030

Nonrecurring Cost Summary

Tennessee

P.15.5 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination -Subsequent Channel Activation - Per Channel

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$108.4619	$0.0000		$108.4619
Total Cost	$108.4619	$0.0000		$108.4619
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$108.6680
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$108.6680**

000051

Nonrecurring Cost Development

Tennessee

P.15.5 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination -Subsequent Channel Activation - Per Channel

11/19/99

			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**
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	2.1667	0.0000	$38.26	$82.8979	$0.0000	0.8198	$0.0000	$82.8979
Connect	470X	Circuit Provisioning Group (CPG)	0.1667	0.0000	$36.25	$6.0429	$0.0000	0.8198	$0.0000	$6.0429
Connect	4N2X	Switch & Trunk Based Translations	0.1666	0.0000	$44.63	$7.4354	$0.0000	0.8198	$0.0000	$7.4354
Connect	4N4X	Circuit Provisioning Group (CPG)	0.3334	0.0000	$36.25	$12.0858	$0.0000	0.8198	$0.0000	$12.0858
									Total	**108.461925**

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	4AXX	Acc Cust Advocate Cntr (ACAC)	2.1667	0.0000	$38.26	$82.8979	$0.0000	0.8198	$0.0000	$82.8979
Connect	470X	Circuit Provisioning Group (CPG)	0.1667	0.0000	$36.25	$6.0429	$0.0000	0.8198	$0.0000	$6.0429
Connect	4N2X	Switch & Trunk Based Translations	0.1666	0.0000	$44.63	$7.4354	$0.0000	0.8198	$0.0000	$7.4354
Connect	4N4X	Circuit Provisioning Group (CPG)	0.3334	0.0000	$36.25	$12.0858	$0.0000	0.8198	$0.0000	$12.0858
									Total	**108.461925**

250052

Nonrecurring Cost Summary

Tennessee

P.15.6 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Telephone Numbers

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$88.5121	$0.0000		$88.5121
Total Cost	$88.5121	$0.0000		$88.5121
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$88.6802
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$88.6802**

000053

Nonrecurring Cost Development

Tennessee

P.15.6 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Telephone Numbers

11/19/99

			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**
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	2.0000	0.0000	$38.26	$76.5200	$0.0000	0.8198	$0.0000	$76.5200
Connect	470X	Circuit Provisioning Group (CPG)	0.1667	0.0000	$36.25	$6.0429	$0.0000	0.8198	$0.0000	$6.0429
Connect	4N2X	Switch & Trunk Based Translations	0.0833	0.0000	$44.63	$3.7177	$0.0000	0.8198	$0.0000	$3.7177
Connect	4N2X	Switch & Trunk Based Translations	0.0500	0.0000	$44.63	$2.2315	$0.0000	0.8198	$0.0000	$2.2315
									Total	**88.512054**

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	4AXX	Acc Cust Advocate Cntr (ACAC)	2.0000	0.0000	$38.26	$76.5200	$0.0000	0.8198	$0.0000	$76.5200
Connect	470X	Circuit Provisioning Group (CPG)	0.1667	0.0000	$36.25	$6.0429	$0.0000	0.8198	$0.0000	$6.0429
Connect	4N2X	Switch & Trunk Based Translations	0.0833	0.0000	$44.63	$3.7177	$0.0000	0.8198	$0.0000	$3.7177
Connect	4N2X	Switch & Trunk Based Translations	0.0500	0.0000	$44.63	$2.2315	$0.0000	0.8198	$0.0000	$2.2315
									Total	**88.512054**

000054

Nonrecurring Cost Summary

Tennessee

P.15.7 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Signaling Changes

11/19/99

	Nonrecurring Cost			
	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$22.8803	$0.0000		$22.8803
Total Cost	$22.8803	$0.0000		$22.8803
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$22.9237
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$22.9237**

000085

Nonrecurring Cost Development

Tennessee
P.15.7 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Signaling Changes

11/19/99			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
Connect	4AXX	Acc Cust Advocate Cntr (ACAC)	0.1667	0.0000	$38.26	$6.3779	$0.0000	0.8198	$0.0000	$6.3779
Connect	4N2X	Switch & Trunk Based Translations	0.1667	0.0000	$44.63	$7.4398	$0.0000	0.8198	$0.0000	$7.4398
Connect	4N4X	Circuit Provisioning Group (CPG)	0.2500	0.0000	$36.25	$9.0625	$0.0000	0.8198	$0.0000	$9.0625
									Total	**22.880263**

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	4AXX	Acc Cust Advocate Cntr (ACAC)	0.1667	0.0000	$38.26	$6.3779	$0.0000	0.8198	$0.0000	$6.3779
Connect	4N2X	Switch & Trunk Based Translations	0.1667	0.0000	$44.63	$7.4398	$0.0000	0.8198	$0.0000	$7.4398
Connect	4N4X	Circuit Provisioning Group (CPG)	0.2500	0.0000	$36.25	$9.0625	$0.0000	0.8198	$0.0000	$9.0625
									Total	**22.880263**

000085

Nonrecurring Cost Summary

Tennessee

P.15.8 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Service Order Per Order

11/19/99

Nonrecurring Cost

	Direct Cost	Shared Cost		TELRIC
Nonrecurring Cost Development Sheet Col H	$94.7025	$0.0000		$94.7025
Total Cost	$94.7025	$0.0000		$94.7025
Gross Receipts Tax Factor			X	1.0019
Cost (including Gross Receipts Tax)				$94.8824
Common Cost Factor			X	1.0000
Nonrecurring Economic Cost				**$94.8824**

000087

Nonrecurring Cost Development

Tennessee
P.15.8 - 4-Wire DS1 Digital Loop / 4 -Wire DID Trunk Port Combination - Subsequent Service Order Per Order

11/19/99

			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	2300	Customer Point Of Contact - ICSC	2.2500	0.0000	$42.09	$94.7025	$0.0000	0.8198	$0.0000	$94.7025
									Total	**94.7025**

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	2300	Customer Point Of Contact - ICSC	2.2500	0.0000	$42.09	$94.7025	$0.0000	0.8198	$0.0000	$94.7025
									Total	**94.7025**

000088

State: TN
Workpaper: Inputs
Port Type: 2-Wire Analog Res/Bus/PBX

LN		Description	Source	Value	FRC	Sub FRC
1						
2	P.1.2	**Exchange Port - 2-Wire Line Port (Res., Bus., PBX)**				
3		**SCIS Model Office**	SCIS/MO Version 2.3, Tennessee			
4		**5ESS**	Line Termination Report			
5		MDF & Protector		[redacted]	377C	03
6		Non-traffic Sensitive Switching Investment			377C	03
7		Getting Started Investment	Total Investment Report		377C	03
8		**DMS**	Line Termination Report			
9		MDF & Protector		[redacted]	377C	03
10		Non-traffic Sensitive Switching Investment			377C	03
11		Getting Started Investment	Total Investment Report		377C	03
12		**RTU Fees**				
13		5ESS	Contract PR-6700-B	[redacted]		
14		DMS				
15						
16		**Technology Distribution**				
17		5ESS		60.6%		
18		DMS		39.4%		
19						
20		Discount Rate	Study Assumption	9.93%		
21						
22		Economic Life of Digital Switching Equipment (Months)	Network	120		
23						
24		Total Line Terminations	SCIS/MO Inputs	2,124,331		
25		**Nonrecurring (Labor) Inputs**	Function	Source	Value	
26		Worktimes (Hours) by JFC		Network		
27				Prod Mgt		
28	P.1.3	2-Wire Voice Grade Loop / Res-Bus-PBX Port Combination - Nonrecurring Cost				
29		**First Port**				
30		Customer Point of Contact	Service Order	2300	0.7500	
31		Recent Chng Line Trans	Connect	4N1X	0.0015	
32		Address & Facility Inventory	Connect	400X	0.0070	
33						
34		**Additional Port**				
35		Customer Point of Contact	Service Order	2300	0.1667	
36		Recent Chng Line Trans	Connect	4N1X	0.0015	
37		Address & Facility Inventory	Connect	400X	0.0070	
38						
39	P.1.4	2-Wire Voice Grade Loop / Res-Bus-PBX Port Combination - Manual Svc Order vs. Electronic				
40						
41		Total Manual Ordering (LCSC) - Hours per Service Order-First		Ln7	0.7500	
42		Total Manual Ordering (LCSC) - Hours per Service Order-Additional		Ln12	0.1667	
43		Percent Fall-out			7.00%	
44		Time Required to Clear Fall-out - Hours - First			0.2500	
45		Time Required to Clear Fall-out - Hours - Additional			0.0000	
46		Number of Service Orders Issued per Port			1	
47						
48						
49						
50		Location Life			29	

000089

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. **Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.1.2	377C	03	37.287	
	END				

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring 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.

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN	P.1.2	RTU	$0.241	
TN	P.1.1	Subscriber Line Testing.	$0.769	
	END			

Maximum 10 entries per Cost Element #

000091

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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.

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

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 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 6/98.
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.) Jun-98

					(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ PayBand	Installation Time (Hours)	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	P.1.3	29	Service Order	2300			0.0175		0.0000					
TN	P.1.3	29	Connect	4N1X			0.0015		0.0015					
TN	P.1.3	29	Connect	400X			0.0070		0.0070					
TN	P.1.4	29	Service Order	2300			0.7325		0.1667					
	END													

000094

State: TN
Workpaper: 210
Port Type: 2-Wire Analog Res/Bus/PBX Port
Cost Element: P.1.2

LN	Description	Source	Value
1			
2	**Development of Investments**		
3			
4			
5	**5ESS Investment Development**		
6	MDF & Protector	Wp Inputs, Ln5	
7	Non-traffic Sensitive Switching Investment	Wp Inputs, Ln6	
8	Total Investment - 5ESS	Ln6+Ln7	
9			
10	**DMS Investment Development**		
11	MDF & Protector	Wp Inputs, Ln9	
12	Non-traffic Sensitive Switching Investment	Wp Inputs, Ln10	
13	Total Investment - DMS	Ln11+Ln12	
14			
15	**Technology Distribution**		
16	5ESS	Wp Inputs, Ln17	60.6%
17	DMS	Wp Inputs, Ln18	39.4%
18			
19	**Melded Investment**	Ln8*Ln16+Ln13*Ln17	$22.69
20			
21	**Getting Started Investment per Line**		
22	5ESS Getting Started Investment	Wp Inputs, Ln7	
23	DMS Getting Started Investment	Wp Inputs, Ln11	
24	Total Getting Started Investment	Ln22 + Ln23	$31,007,734.000
25			
26	Total Line Terminations	Wp Inputs, Ln24	2,124,331
27			
28	Total Getting Started Investment per Line	Ln24 / Ln26	$ 14.596
29			
30	**Total Investment per Port**	Ln19 + Ln28	$37.287
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			

State: TN
Workpape 220
Port Type: 2-Wire Analog Res/Bus/PBX Port
Cost Elem P.1.2

LN	Description	Source	Value
1			
2	**Development of Recurring Additive**		
3			
4			
5			
6	**RTU Fees**		
7	5ESS	Wp Inputs, Ln13	
8	DMS	Wp Inputs, Ln14	
9			
10	**Technology Distribution**		
11	5ESS	Wp Inputs, Ln17	60.6%
12	DMS	Wp Inputs, Ln18	39.4%
13	Adjustment Factor		
14	Melded RTU Expense	Ln7*Ln11+Ln8*Ln12*Ln13	$18.59
15			
16	**Conversion of Expense to Unit Recurring**		
17	Discounr Rate	Wp Inputs, Ln20	9.93%
18	Monthly Discount Rate	((1+Ln17)^(1/12))-1	0.792%
19	Economic Life of Digital Switch Equipment	Wp Inputs, Ln22	120
20	Unit Recurring	=PMT(Ln18,Ln19,Ln14)	$0.24
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			
50			

State: TN
Workpaper: 230
Port Type: 2-Wire Analog Res/Bus/PBX Port
Cost Element: P.1.4

LN	Description	Source	Install Worktime (hrs)
1			
2	**Development of Incremental Cost - Manual vs. Electronic**		
3	**First Port**		
4	Total Manual Ordering (LCSC) - Hours per Service Order	Wp Inputs, Ln41	0.7500
5	Percent Fall-out	Wp Inputs, Ln43	7.00%
6	Time Required to Clear Fall-out - Hours	Wp Inputs, Ln44	0.2500
7	Number of Service Orders Issued per Port	Wp Inputs, Ln46	1
8	LCSC Time Included in UNE - Electronic Ordering	Ln5*Ln6*Ln7	0.0175
9	Incremental Cost for Manual Service Order	(Ln4*Ln7)-Ln8	0.7325
10			
11	**Additional Port**		
12	Total Manual Ordering (LCSC) - Hours per Service Order	Wp Inputs, Ln42	0.1667
13	Percent Fall-out	Wp Inputs, Ln43	7.00%
14	Time Required to Clear Fall-out - Hours	Wp Inputs, Ln45	0.0000
15	Number of Service Orders Issued per Port	Wp Inputs, Ln46	1
16	LCSC Time Included in UNE - Electronic Ordering	Ln13*Ln14*Ln15	0.0000
17	Incremental Cost for Manual Service Order	(Ln12*Ln15)-Ln16	0.1667
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			
50			

1	2-WIRE VOICE GRADE LOOP WITH 2-WIRE LINE PORT				WORKPAPER 1
2	SUBSEQUENT DATABASE UPDATE				PAGE 1 OF 1
3	INPUT DATA				
4					
5	STATE				TN
6					
7					
8					
9					
10	Labor				
11	2W Voice Grade Loop/Line Port Comb	JFC		Hours	
12	Sub. Database Update-NRC				
13	Service Order Processing	2300	Marketing	0.018	
14					
15					
16					
17	2W Voice Grade Loop/Line Port Comb	JFC		Hours	
18	Sub. Database Update-Incre				
19	Service Order Processing	2300	Marketing	0.189	
20					
21					
22	Study Mid Point				Jun-98
23					
24	Location Life, months		Study Assumption		26

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. **Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount

000093

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring 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.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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 #	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 #

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 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 at 6/98.
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.) Jun-98

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	P.1.5	26	Sub. Database Update-NRC	2300									0.018	
TN	P.1.6	26	Sub. Database Update-Incre	2300									0.189	
	END													

Maximum of 25 entries per Cost Element #

2-WIRE VOICE GRADE LOOP WITH 2-WIRE LINE PORT
DEVELOPMENT OF SUBSEQUENT DATABASE UPDATE COSTS

WORKPAPER 2
PAGE 1 OF 1

STATE

TN

P.1.5
2W Voice Grade Loop/Line Port Comb

Sub. Database Update-NRC	JFC	Source	Hours
Service Order Processing	2300	WP1,P1 Ln47	0.018

P.1.6
2W Voice Grade Loop/Line Port Comb

Sub. Database Update-Incre	JFC	Source	Hours
Service Order Processing	2300	WP1,P1 Ln52	0.189

State: TN
Workpaper: Inputs - mo
Cost Element 2-Wire DID

LN		Description	Source	Value	Value	Value
1						
2	P.3.2	**Exchange Port - 2-Wire DID Trunk Port**				
3						
4		**SCIS Model Office**	SCIS/MO Version 2.3, Tennessee			
5		**5ESS**				
6		Investment Per Equivalent POTS Half Call (EPHC)	Model Office Output - MO2		377C	03
7						
8		**DMS**				
9		Investment per Millisecond	Model Office Output - MO1		377C	03
10						
11		**SCIS/IN Database**	SCIS/IN Version 2.3			
12		**5ESS**				
13		Averge Realtime per EPHC	Assumption Table Item #3			
14		Realtime Required for DID Call (Switch Module)	Realtime Table Item #22.03			
15		Investment per Digital Trunk	Miscellaneous Equation #6			
16						
17		**DMS**				
18		Realtime Required for DID Call	Realtime Table Item #22.03			
19		Investment per Digital Trunk	Miscellaneous Equation #6			
20						
21		**User Inputs into SCIS/IN**	Network			
22		Busy Hour Calls per Trunk (DS0)		11.3		
23		Number of Trunks		1		
24						
25		**RTU Fees**				
26		**5ESS (None Required)**	Contract PR-6700-B			
27		**DMS**				
28		NTX100AA List Price - per Office	Contract PR6900			
29		NTX100AA List Price - per Group of 100 Lines	Contract PR6900			
30		Number of Features per Office w/ NTX100AA	Feature Study			
31						
32		**Technology Distribution**	Demand & Facility Report - NALs			
33		5ESS		60.6%		
34		DMS		39.4%		
35						
36		Discount Rate	Study Assumption	9.93%		
37						
38		Economic Life of Digital Switching Equipment (Months)	Network	120		
39						
40		**Circuit Equipment**	DS1 Channelization Price Calculator			
41		DSX Material Price per Port @ DS0		$ 0.630	357C	03
42		D4 Channel Bank per Port @ DS0		$ 68.850	357C	03
43		D4 Common Plugs per Port @ DS0		$ 26.840	357C	06
44		2-Wire DPO Plug-in		$ 86.400	357C	09
45		Number of DSX Terminations		2		
46		Utilization Factor - Applied to DSX, D4, & Commons		85%		
47						
48						
49		DMS Discount for Software	Contract PR6900			
50						

State: TN
Workpapelnputs - NRC
Cost Element 2-Wire DID

LN		Description	Function	Source	Install	Disconnect
1						
2		**Nonrecurring (Labor) Inputs**				
3		Worktimes (Hours) by JFC		Network		
4				Product Management		
5	P.3.3	**2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Nonrecurring Cost**				
6						
7		**First Port - per Trunk Activities**		**Job Function Code**		
8		Customer Point of Contact	Service Order	2300	1.0000	
9		Circuit Provisioning Group	Connect	470X	0.1517	
10		AFIG	Connect	400X	0.0035	
11		Network Services Clerical	Connect	2730	0.0333	
12						
13						
14						
15		**First Port - per Trunk Group Activities**				
16		Circuit Provisioning Group	Connect	470X	0.2633	
17						
18						
19		**Additional Ports**				
20		Customer Point of Contact	Service Order	2300	0.2500	
21		Circuit Provisioning Group	Connect	470X	0.1042	
22		AFIG	Connect	400X	0.0000	
23		Network Services Clerical	Connect	2730	0.0167	
24						
25						
26						
27		Average Number of Trunks per Trunk Group		Product Management	14	
28						
29	P.3.4	**2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Manual Svc Order vs. Electronic**				
30		Total Manual Ordering (LCSC) - Hours per Service Order - First		Ln8	1.0000	
31		Total Manual Ordering (LCSC) - Hours per Service Order - Addtional		Ln20	0.2500	
32		Percent Fall-out		Product Management	7.00%	
33		Time Required to Clear Fall-out - Hours		Product Management	0.2500	
34		Number of Service Orders Issued per Port		Network	1	
35						
36		Location Life (Months)		Product Team	62	
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.3.2	377C	03	51.696	
TN	P.3.2	357C	03	82.482	
TN	P.3.2	357C	06	31.576	
TN	P.3.2	357C	09	86.400	
	END				

000107

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring 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.

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN	P.3.2	RTU	0.045	0.001
TN	P.3.1	Subscriber Line Testing	0.769	
	END			

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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 #	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 #

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 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 6/98.
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.) Jun-98

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	P.3.3	62	Service Order	2300			0.0175		0.0175					
TN	P.3.3	62	Connect	470X			0.1705		0.1230					
TN	P.3.3	62	Connect	400X			0.0035		0.0000					
TN	P.3.3	62	Connect	2730			0.0521		0.0167					
TN	P.3.4	62	Service Order	2300			0.9825		0.2325					
	END													

State: TN
Workpaper: 310
Port Type: 2-Wire DID
Cost Element: P.3.2

LN	Description	Source	FRC	Sub FRC	Value
1					
2	**Development of Investments**				
3					
4	**5ESS Investment Development**				
5	Call Investment	Ln12*Ln15*Ln16/Ln19*Ln20			
6					
7	Hardware Investment	Ln16*Ln21			
8					
9	Total Investment - 5ESS	Ln5+Ln9			
10					
11	**Model Office Outputs**				
12	Investment Per Equivalent POTS Half Call (EPHC)	Wp Inputs - mo, Ln6			
13					
14	**User Inputs**				
15	Busy Hour Calls per Trunk (DS0)	Wp Inputs - mo, Ln22			11.3
16	Number of Trunks	Wp Inputs - mo, Ln23			1
17					
18	**SCIS/IN Database**				
19	Averge Realtime per EPHC	Wp Inputs - mo, Ln13			
20	Realtime Required for DID Call (Switch Module)	Wp Inputs - mo, Ln14			
21	Investment per Digital Trunk	Wp Inputs - mo, Ln15			
22					
23	**DMS Investment Development**				
24	Getting Started Investment	Ln31*Ln34*Ln38*Ln39			
25					
26	Hardware Investment	Ln35*Ln39			
27					
28	Total Investment - DMS	Ln24+Ln26			
29					
30	**Model Office Outputs**				
31	Investment per Millisecond	Wp Inputs - mo, Ln9			
32					
33	**SCIS/IN Database**				
34	Realtime Required for DID Call	Wp Inputs - mo, Ln18			
35	Investment per Digital Trunk	Wp Inputs - mo, Ln19			
36					
37	**User Inputs**				
38	Busy Hour Calls per Trunk (DS0)	Wp Inputs - mo, Ln22			11.3
39	Number of Trunks	Wp Inputs - mo, Ln23			1
40					
41	**Technology Distribution**				
42	5ESS	Wp Inputs - mo, Ln33			60.6%
43	DMS	Wp Inputs - mo, Ln34			39.4%
44			FRC	Sub FRC	
45	**Melded Investment**	Ln9*Ln42+Ln28*Ln43	377C	03	$ 51.696
46					
47	**Circuit Equipment**				
48	DSX Material Price per Port @ DS0	Wp Inputs - mo, Ln41			$ 0.630
49	Number of DSX Terminations	Wp Inputs - mo, Ln45			2
50	D4 Channel Bank per Port @ DS0	Wp Inputs - mo, Ln42			$ 68.850
51	D4 Common Plugs per Port @ DS0	Wp Inputs - mo, Ln43			$ 26.840
52	2-Wire DPO Plug-in	Wp Inputs - mo, Ln44			$ 86.400
53	Utilization Factor - Applied to DSX, D4, & Commons	Wp Inputs - mo, Ln46			85%
54	**Utilized Material Prices**		FRC	Sub FRC	
55	DSX Material Price per Port @ DS0	Ln48*Ln49/Ln53	357C	03	$ 1.482
56	D4 Channel Bank per Port @ DS0	Ln50/Ln53	357C	03	$ 81.000
57	Total 357C 03	Ln56+Ln55	357C	03	$ 82.482
58	D4 Common Plugs per Port @ DS0	Ln51/Ln53	357C	06	$ 31.576
59	2-Wire DPO Plug-in	Ln52	357C	09	$ 86.400
60					

		State:	TN
		Workpaper:	320
		Port Type	2-Wire DID
		Cost Eleme	P.3.2

LN	Description	Source	Value
1			
2	**Development of Recurring Additive**		
3	**RTU Fees**		
4			
5	**5ESS**	Wp Inputs - mo, Ln26	
6			
7	**DMS**		
8	NTX100AA List Price - per Office	Wp Inputs - mo, Ln28	
9	DMS Discount for Software	Wp Inputs - mo, Ln59	
10	Number of Features per Office w/ NTX100AA	Wp Inputs - mo, Ln30	
11	RTU Fee per Feature per Line (DS0) (Volume Insensitive)	Ln8*(1-Ln9)/Ln10	
12			
13	NTX100AA List Price - per Group of 100 Lines	Wp Inputs - mo, Ln29	
14	DMS Discount for Software	Wp Inputs - mo, Ln59	
15	Discounted RTU per Group of 100 Lines	Ln13*(1-Ln14)	
16	RTU per Line (Volume Sensitive)	Ln15/100	
17			
18	**Volume Sensitive RTU Fees**		
19	5ESS	Ln5	
20	DMS	Ln16	
21	Melded	Ln19*Ln29+Ln20*Ln30	$ 3.448
22			
23	**Volume Insensitive Expressed as a per Unit**		
24	5ESS	Ln5	
25	DMS	Ln11	
26	Melded	Ln24*Ln29+Ln25*Ln30	$ 0.088
27			
28	**Technology Distribution**		
29	5ESS	Wp Inputs - mo, Ln33	60.6%
30	DMS	Wp Inputs - mo, Ln34	39.4%
31			
32	**Conversion of Expense to Unit Recurring**		
33	**Volume Sensitive**		
34	Cost of Money	Wp Inputs - mo, Ln36	9.93%
35	Monthly Interest Rate	((1+Ln34)^(1/12))-1	0.792%
36	Economic Life of Digital Switch Equipment	Wp Inputs - mo, Ln38	120
37	Unit Recurring	=PMT(Ln35,Ln36,Ln21)	$0.045
38			
39	**Volume Insensitive**		
40	Discount Rate	Wp Inputs - mo, Ln36	9.93%
41	Monthly Discount Rate	((1+Ln44)^(1/12))-1	0.792%
42	Economic Life of Digital Switch Equipment	Wp Inputs - mo, Ln38	120
43	Unit Recurring	=PMT(Ln41,Ln42,Ln26)	$0.001
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

State: TN
Workpaper: 330
Port Type 2-Wire DID
Cost Element: P.3.4

LN	Description	Source	Install
1			
2	Development of Incremental Cost - Manual vs. Electronic		
3	First Port		
4	Total Manual Ordering (LCSC) - Hours per Service Order - First	Wp Inputs - NRC, Ln52	1.0000
5	Percent Fall-out	Wp Inputs - NRC, Ln54	7.00%
6	Time Required to Clear Fall-out - Hours	Wp Inputs - NRC, Ln55	0.2500
7	Number of Service Orders Issued per Port	Wp Inputs - NRC, Ln56	1
8	LCSC Time Included in UNE - Electronic Ordering	Ln5*Ln6*Ln7	0.0175
9	Incremental Cost for Manual Service Order	(Ln4*Ln7)-Ln8	0.9825
10			
11	Additional Port		
12	Total Manual Ordering (LCSC) - Hours per Service Order - First	Wp Inputs - NRC, Ln53	0.2500
13	Percent Fall-out	Wp Inputs - NRC, Ln54	7.00%
14	Time Required to Clear Fall-out - Hours	Wp Inputs - NRC, Ln55	0.2500
15	Number of Service Orders Issued per Port	Wp Inputs - NRC, Ln56	1
16	LCSC Time Included in UNE - Electronic Ordering	Ln13*Ln14*Ln15	0.0175
17	Incremental Cost for Manual Service Order	(Ln12*Ln15)-Ln16	0.2325
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			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

State: TN
Workpaper: 340
Port Type 2-Wire DID
Cost Element: P.3.3

LN	Description	Source	Install
1	Conversion of per Trunk Group to per Trunk - Install		
2			
3	**2-Wire Voice Grade Loop / 2-Wire DID Trunk Port Combination - Nonrecurring Cost**		
4	Customer Point of Contact	Wp Inputs - NRC, Ln8	1.0000
5	Circuit Provisioning Group	Wp Inputs - NRC, Ln9	0.1517
6	AFIG	Wp Inputs - NRC, Ln10	0.0035
7	Network Services Clerical	Wp Inputs - NRC, Ln11	0.0333
8			
9			
10			
11	**First Port - per Trunk Group Activities**		
12	Circuit Provisioning Group	Wp Inputs - NRC, Ln16	0.2633
13			
14			
15	Average Number of Trunks per Trunk Group	Wp Inputs - NRC, Ln27	14
16			
17	**Per Group Converted to per Trunk**		
18	Circuit Provisioning Group	Ln12/Ln15	0.0188
19			
20			
21	**Total First Port Worktimes**		
22	Customer Point of Contact	Ln4	1.0000
23	Circuit Provisioning Group	Ln5 + Ln18	0.1705
24	AFIG	Ln6	0.0035
25	Network Services Clerical	Ln7	0.0521
26			
27			
28			
29	**Additional Ports**		
30	Customer Point of Contact	Wp Inputs - NRC, Ln20	0.2500
31	Circuit Provisioning Group	Wp Inputs - NRC, Ln21	0.1042
32	AFIG	Wp Inputs - NRC, Ln22	0.0000
33	Network Services Clerical	Wp Inputs - NRC, Ln23	0.0167
34			
35			
36			
37	**Total Additional Port Worktimes**		
38	Customer Point of Contact	Ln30	0.2500
39	Circuit Provisioning Group	Ln18 + Ln31	0.1230
40	AFIG	Ln32	0.0000
41	Network Services Clerical	Ln33	0.0167
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

State: TN
Workpaper: Inputs
Cost Element: 2-Wire ISDN

LN		Description	Source	Value	Value	Value
1						
2		**Inputs - Page 1 of 2**				
3						
4	P.4.2	**Exchange Port - 2-Wire ISDN Line Side Port**				
5						
6		**SCIS Model Office**	SCIS/MO Version 2.3,Tennessee			
7				Value	FRC	Sub FRC
8		**5ESS**				
9		Non-traffic Sensitive Switching Investment		[redacted]	377C	03
10		Inherent Functionality Investment	SCIS/IN Feature Runs			
11		Inspect/Display	Feature #167+249	[redacted]	377C	03
12		Calling Number Delivery	Feature #11		377C	03
13		Incremental Usage	Feature # 569		377C	03
14		Getting Started Investment	Total Investment Report		377C	03
15						
16		**DMS**				
17		Non-traffic Sensitive Switching Investment		[redacted]	377C	03
18		Inherent Functionality Investment	SCIS/IN Feature Runs			
19		Inspect/Display	Feature #210+211+249	[redacted]	377C	03
20		Calling Number Delivery	Feature #11		377C	03
21		Incremental Usage	Feature # 569		377C	03
22		Getting Started Investment	Total Investment Report		377C	03
23		**RTU Fees**				
24		**5ESS**	Contract PR-6700-B			
25		National ISDN I Package	Per Office	[redacted]		
26		NIS1BSW National ISDN Base				
27		NIS1SBB Standard BRI Base				
28		NIS1DAT Basic Data for Standard BRI				
29		NIS1CSD Deluxe CSD for Standard BRI				
30		NIS1PSD Deluxe PSD for BRI				
31		ISBRIDS BRI Data Service Package				
32		National ISDN II Package	Per Office	[redacted]		
33		Total per Office	LN25+LN32			
34		ISDNOAM ISDN OA&M Package	Per Switch Module (SM)			
35		GX75RTU X.75' Packet Gateway Access	Per Switch Module (SM)			
36		CCSQRTU Q931/SS7 Interworking	Per Switch Module (SM)			
37		Total per Switch Module RTU Fees	LN34+LN35+LN36			
38		ISBRIDS BRI Data Services Package	Per BRI			
39						
40		**DMS**	Contract PR6900			
41		NTX750AB ISDN Basic Access				
42		Per 2B+D		[redacted]		
43		Per 1B+D				
44		Per Switch				
45		NTX753AB ISDN Advanced Signalling				
46		NTX754AB ISDN EKTS				
47		NTX755AC ISDN Supplementary Services				
48		NTX756AA ISDN Display Services				
49		NTX757AA ISDN/ISUP Interworking				
50		NTX767AA ISDN Routing & Digital Analysis				
51		DMS-IPH Software Packages				
52		NTXP47AA - Packet Handler Base				
53		NTXH77AA - Channelized Access on LPP/LIS				
54		NTXP75AA - DMS PH SERVORD				
55		NTX159AA ISDN Automatic Message Accounting		[redacted]		
56		NTXJ51AA ISDN Digital Test Access	Per Office			
57		NTXJ51AA ISDN Digital Test Access	Per BRI			
58		NTX119AA MDC Message Waiting				
59		NTXN89AA Testing ISDN Services				
60		NTXN91AA TL-1 Testing Interface Base				
61		NTXN93AA TL-1 Testing ISDN Services				
62		NTXR55AA TL-1 Parsing Interface Base				
63		NTX167AB CCS7 Trunk Signaling				
64		NTXF92AA ISDN OA&M Base				
65		NI2 National ISDN II				
66		Total per Office Expense	SUM(LN42..LN65)-LN42-LN43-LN57			
67						
68		Total Line Terminations (analog, digital, BRI, PRI)	SCIS/MO Inputs	2,124,331		
69						
70						

State: TN
Workpaper: Inputs
Cost Element: 2-Wire ISDN

LN		Description		Source	Value	Value
71						
72		**Inputs - Page 2 of 2**				
73						
74		**Technology Distribution**		Demand & Facility Report		
75		5ESS			60.6%	
76		DMS			39.4%	
77						
78		Discount Rate		Study Assumption	9.93%	
79						
80		Economic Life of Digital Switching Equipment (Months)		Network	120	
81						
82		**Typical Office Configuration**		SCIS/MO Version 2.3, North Carolina		
83		1B+D BRIs			22	
84		2B+D BRIs			249	
85						
86						
87						
88	P.4.3	First Loop/Port Combo, worktimes in hours	JFC		Install	Disconnect
89		Service Order	2300	Product Team	2.5000	
90		Connect				
91		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.0667	
92		Circuit Provisioning Group (CPG)	470X	Product Team	0.0402	
93		Address & Facility Inventory (AFIG)	400X	Product Team	0.1500	
94		RCMAG/MARCH	4N1X	Product Team	0.0750	
95						
96		Additional Loop/Port Combo, worktimes in hours				
97		Service Order	2300	Product Team	2.5000	
98		Connect				
99		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.0667	
100		Circuit Provisioning Group (CPG)	470X	Product Team	0.0402	
101		Address & Facility Inventory (AFIG)	400X	Product Team	0.1500	
102		RCMAG/MARCH	4N1X	Product Team	0.0750	
103						
104						
105						
106		Location Life (months)		Product Team	60	
107						
108						
109	P.4.5	Subsequent Activity, worktimes in hours				
110		Service Order	2300	Product Team	5.0000	
111		Connect				
112		RCMAG/MARCH	4N1X	Product Team	0.0542	
113						
114						
115						

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.4.2	377C	03	150.684	
	END				

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring 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.

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN	P.4.2	RTU	0.820	9.348
TN	P.4.1	Subscriber Line Testing	0.769	
	END			

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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.**

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

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 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 6/98.
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.) Jun-98

					(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ PayBand	Installation Time (Hours)	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	P.4.3	60	Service Order	2300			2.5000		2.5000					
TN	P.4.3	60	Connect	4AXX			0.0667		0.0667					
TN	P.4.3	60	Connect	470X			0.0402		0.0402					
TN	P.4.3	60	Connect	400X			0.1500		0.1500					
TN	P.4.3	60	Connect	4N1X			0.0750		0.0750					
TN	P.4.5	60	Service Order	2300	5.0000									
TN	P.4.5	60	Connect	4N1X	0.0542									
END														

State: TN
Workpaper: 410
Port Type: 2-Wire ISDN
Cost Element: P.4.2

LN	Description	Source	Value
1			
2	**Development of Investments**		
3			
4	**5ESS Investment Development**		
5	Non-traffic Sensitive Switching Investment	Wp Inputs, Ln9	
6	Inherent Functionality Investment		
7	Inspect/Display	Wp Inputs, Ln11	
8	Calling Number Delivery	Wp Inputs, Ln12	
9	Incremental Usage	Wp Inputs, Ln13	
10	Total Investment - 5ESS	Ln5+Ln7+Ln8+Ln9	
11			
12	**DMS Investment Development**		
13	Non-traffic Sensitive Switching Investment	Wp Inputs, Ln17	
14	Inherent Functionality Investment		
15	Inspect/Display	Wp Inputs, Ln19	
16	Calling Number Delivery	Wp Inputs, Ln20	
17	Incremental Usage	Wp Inputs, Ln21	
18	Total Investment - DMS	Ln13+Ln15+Ln16+Ln17	
19			
20			
21			
22	**Technology Distribution**		
23	5ESS	Wp Inputs, Ln97	60.6%
24	DMS	Wp Inputs, Ln98	39.4%
25			
26	**Melded Investment**	Ln10*Ln23+Ln18*Ln24	$ 136.088
27			
28	**Getting Started Investment per Line**		
29	5ESS Getting Started Investment	Wp Inputs, Ln14	
30	DMS Getting Started Investment	Wp Inputs, Ln22	
31	Total Getting Started Investment	Ln29 + Ln30	$ 31,007,734.000
32			
33	Total Line Terminations	Wp Inputs, Ln68	2,124,331
34			
35	Total Getting Started Investment per Line	Ln31 / Ln33	$ 14.596
36			
37	**Total Investment per Port**	Ln26 + Ln35	$ 150.684
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			

State: TN
Workpaper: 420
Port Type: 2-Wire ISDN
Cost Element: P.4.2

LN	Description	Source	Value
1			
2	**Development of Recurring Additive**		
3	**RTU Fees**		
4			
5	**5ESS**		
6	Single Line RTU Fees per Office	Wp Inputs, Ln33	
7	Single Line RTU Fees per Switch Module	Wp Inputs, Ln37	
8	Single Line RTU Fees per Basic Rate Interface (BRI)	Wp Inputs, Ln38	
9			
10	**DMS**		
11	Single Line RTU Fees per Office	Wp Inputs, Ln66	
12	Single Line RTU Fees per Basic Rate Interface (BRI)	Wp Inputs, Ln57	
13	Single Line RTU Fees per 1B+D	Wp Inputs, Ln43	
14	Single Line RTU Fees per 2B+D	Wp Inputs, Ln42	
15			
16	**Model Office Statistics**		
17	1B+D	Wp Inputs, Ln105	22
18	2B+D	Wp Inputs, Ln106	249
19	Total BRIs per Office	Ln17+Ln18	271
20			
21	Probability of 1B+D	Ln17/Ln19	8.12%
22	Probability of 2B+D	Ln18/Ln19	91.88%
23			
24	**Volume Sensitive RTU Fees**		
25	5ESS	Ln8	
26	DMS	Ln12+Ln13*Ln21+Ln14*Ln22	
27	Melded	Ln25*Ln35+Ln26*Ln36	$ 63.380
28			
29	**Volume Insensitive Expressed as a per Unit (BRI)**		
30	5ESS	(Ln6+Ln7)/Ln19	
31	DMS	Ln11/Ln19	
32	Melded	Ln30*Ln35+Ln31*Ln36	$ 722.278
33			
34	**Technology Distribution**		
35	5ESS	Wp Inputs, Ln97	60.6%
36	DMS	Wp Inputs, Ln98	39.4%
37			
38	**Conversion of Expense to Unit Recurring**		
39	**Volume Sensitive**		
40	Discount Rate	Wp Inputs, Ln100	9.93%
41	Monthly Interest Rate	((1+Ln40)^(1/12))-1	0.792%
42	Economic Life of Digital Switch Equipment	Wp Inputs, Ln102	120
43	Unit Recurring	=PMT(Ln41,Ln42,Ln27)	$0.820
44			
45	**Volume Insensitive**		
46	Discount Rate	Wp Inputs, Ln100	9.93%
47	Monthly Discount Rate	((1+Ln46)^(1/12))-1	0.792%
48	Economic Life of Digital Switch Equipment	Wp Inputs, Ln102	120
49	Unit Recurring	=PMT(Ln47,Ln48,Ln32)	$9.348
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

	A	B	C	D	E	F	G	H
1	**INPUTS**			M = Material				STATE: TENNESSEE
2	**4 WIRE DS1 LOOP**			H = Hardwire				DATE: NOVEMBER 1999
3				P = Plug in				
4	Description	State	Basis	Material Type	FRC	Sub-FRC	Total Material	Source
5	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	TN	DS1	M	822C	00	$ 0.7970	SONET Price Calculator
6	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	TN	DS1	M	822C	00	$ 0.2431	SONET Price Calculator
7	Battery Back-up - OC- 3 (CP)	TN	DS1	H	257C	19	$ 17.1607	SONET Price Calculator
8	Battery Back-up - OC- 3 (CP)	TN	DS1	P	257C	22	$ 13.9278	SONET Price Calculator
9	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	TN	DS1	M	845C	00	$ 1.0006	SONET Price Calculator
10	Buried Fiber - Per Wgtd Fiber Mile - OC-12	TN	DS1	M	845C	00	$ 0.3052	SONET Price Calculator
11	C.O. Interface DS1 on OC- 3 - Mux & Protect	TN	DS1	P	257C	06	$ 73.9729	SONET Price Calculator
12	C.O. Interface DS1 on OC- 3 - Working	TN	DS1	H	257C	03	$ 17.6819	SONET Price Calculator
13	C.O. Interface DS1 on OC- 3 - Working	TN	DS1	P	257C	09	$ 150.3250	SONET Price Calculator
14	C.O. Interface DS1 on OC- 3+ - Mux & Protect	TN	DS1	P	257C	06	$ 69.9877	SONET Price Calculator
15	C.O. Interface DS1 on OC- 3+ - Working	TN	DS1	H	257C	03	$ 17.6819	SONET Price Calculator
16	C.O. Interface DS1 on OC- 3+ - Working	TN	DS1	P	257C	09	$ 150.3250	SONET Price Calculator
17	C.O. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	H	257C	03	$ 10.4893	SONET Price Calculator
18	C.O. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	P	257C	06	$ 297.3947	SONET Price Calculator
19	C.O. Interface DS1 on OC-12 - Working	TN	DS1	H	257C	03	$ 17.6819	SONET Price Calculator
20	C.O. Interface DS1 on OC-12 - Working	TN	DS1	P	257C	09	$ 150.3250	SONET Price Calculator
21	C.O. Node - OC- 3	TN	DS1	H	257C	03	$ 16.7740	SONET Price Calculator
22	C.O. Node - OC- 3	TN	DS1	P	257C	06	$ 150.2802	SONET Price Calculator
23	C.O. Node - OC- 3+	TN	DS1	H	257C	03	$ 47.8541	SONET Price Calculator
24	C.O. Node - OC- 3+	TN	DS1	P	257C	06	$ 172.2194	SONET Price Calculator
25	C.O. Node - OC-12	TN	DS1	H	257C	03	$ 9.0428	SONET Price Calculator
26	C.O. Node - OC-12	TN	DS1	P	257C	06	$ 88.1953	SONET Price Calculator
27	C.P. Interface DS1 on OC- 3 - Mux & Protect	TN	DS1	P	257C	22	$ 73.9729	SONET Price Calculator
28	C.P. Interface DS1 on OC- 3 - Working	TN	DS1	H	257C	19	$ 17.6819	SONET Price Calculator
29	C.P. Interface DS1 on OC- 3 - Working	TN	DS1	P	257C	25	$ 150.3250	SONET Price Calculator
30	C.P. Interface DS1 on OC- 3+ - Mux & Protect	TN	DS1	P	257C	22	$ 69.9877	SONET Price Calculator
31	C.P. Interface DS1 on OC- 3+ - Working	TN	DS1	H	257C	19	$ 17.6819	SONET Price Calculator
32	C.P. Interface DS1 on OC- 3+ - Working	TN	DS1	P	257C	25	$ 150.3250	SONET Price Calculator
33	C.P. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	H	257C	19	$ 10.4893	SONET Price Calculator
34	C.P. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	P	257C	22	$ 297.3947	SONET Price Calculator
35	C.P. Interface DS1 on OC-12 - Working	TN	DS1	H	257C	19	$ 17.6819	SONET Price Calculator
36	C.P. Interface DS1 on OC-12 - Working	TN	DS1	P	257C	25	$ 150.3250	SONET Price Calculator
37	C.P. Node - OC- 3	TN	DS1	H	257C	19	$ 18.3047	SONET Price Calculator
38	C.P. Node - OC- 3	TN	DS1	P	257C	22	$ 150.2802	SONET Price Calculator
39	C.P. Node - OC- 3+	TN	DS1	H	257C	19	$ 49.3847	SONET Price Calculator
40	C.P. Node - OC- 3+	TN	DS1	P	257C	22	$ 172.2194	SONET Price Calculator
41	C.P. Node - OC-12	TN	DS1	H	257C	19	$ 9.5098	SONET Price Calculator
42	C.P. Node - OC-12	TN	DS1	P	257C	22	$ 88.1953	SONET Price Calculator
43	Data Communications - OC- 3	TN	DS1	M	257C	15	$ 44.9014	SONET Price Calculator
44	Data Communications - OC-12	TN	DS1	M	257C	15	$ 13.6976	SONET Price Calculator
45	Network Interface	TN	DS1	H	257C	19	$ 195.6392	SONET Price Calculator
46	UG Fiber - Per Wgtd Fiber Mile - OC- 3	TN	DS1	M	85C	00	$ 1.4675	SONET Price Calculator
47	UG Fiber - Per Wgtd Fiber Mile - OC-12	TN	DS1	M	85C	00	$ 0.4477	SONET Price Calculator
48	Fiber Building Entrance Cable - OC- 3	TN	DS1	M	812C	00	$ 12.6307	SONET Price Calculator
49	Hub Interface DS1 on OC- 3 - Mux & Protect	TN	DS1	P	257C	40	$ 73.9729	SONET Price Calculator
50	Hub Interface DS1 on OC- 3 - Working	TN	DS1	H	257C	37	$ 17.6819	SONET Price Calculator
51	Hub Interface DS1 on OC- 3 - Working	TN	DS1	P	257C	43	$ 150.3250	SONET Price Calculator
52	Hub Interface STS-1 on OC- 3	TN	DS1	H	257C	37	$ 9.8210	SONET Price Calculator
53	Hub Interface STS-1 on OC- 3	TN	DS1	P	257C	43	$ 122.6524	SONET Price Calculator
54	Hub Interface STS-1 on OC-12	TN	DS1	H	257C	37	$ 9.8210	SONET Price Calculator
55	Hub Interface STS-1 on OC-12	TN	DS1	P	257C	43	$ 55.6689	SONET Price Calculator
56	Hub Node - OC- 3	TN	DS1	H	257C	37	$ 18.3047	SONET Price Calculator
57	Hub Node - OC- 3	TN	DS1	P	257C	40	$ 150.2802	SONET Price Calculator
58	Hub Node - OC-12	TN	DS1	H	257C	37	$ 9.5098	SONET Price Calculator
59	Hub Node - OC-12	TN	DS1	P	257C	40	$ 88.1953	SONET Price Calculator
60								
61	Aerial Ca. - 26 Gauge Copper per pair foot				22C	00	$ 0.004025	Loop Model
62	Buried Ca. - 26 Gauge Copper per pair foot				45C	00	$ 0.004867	Loop Model
63	Underground Ca. - 26 Gauge Copper per pair foot				5C	00	$ 0.004100	Loop Model
64								
65	Distribution to Code - Aerial Cable						0.239	Loop Model
66	Distribution to Code - Buried Cable						0.239	Loop Model
67	Distribution to Code - Underground Cable						0.522	Loop Model

	A	B	C	D	E	F	G	H
68								
69	Line Repeater - Addressable Rptr.				257C	44	[redacted]	Network
70	Line Repeater - App. Case				257C	37		Network
71								
72	C.O. Repeater - Shelf				257C	03	[redacted]	Network
73	C.O. Repeater				257C	09		Network
74								
75								
76								
77								
78								
79	Aerial Ca - Metal - Bldg. Entrance per pair foot				12C	00	$ 0.0047	Loop Model
80	DSX Panel per termination				257C	03	$ 0.630	Network
81								
82	Average Bldg. Entrance Length (Ft)						250	Loop Model
83	Route to Air Ratio (RTA)						1.34	TIRKS Data Base
84	Copper Utilization						0.651	Network
85	State Average Air 1/2 miles						2.7	CRIS Data Base
86	Ratio Of Circumference To The Diameter						3.14	PI
87	Of A Circle							
88	Number of Strands per Ring						3	Network
89	Design 1 Probability of Occurrence						10%	Network
90	Design 2 Probability of Occurrence						35%	Network
91	Design 3 Probability of Occurrence						15%	Network
92	Design 4 Probability of Occurrence						25%	Network
93	Design 5 Probability of Occurrence						15%	Network
94							100%	
95								
96	Probability of CO to Hub - Design 4 & 5						50.00%	Network
97	Probability of Hub to CP - Design 4 & 5						50.00%	Network
98							100.00%	

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.5.1	257C	03	138.433	
TN	P.5.1	257C	06	228.721	
TN	P.5.1	257C	09	382.604	
TN	P.5.1	257C	15	31.050	
TN	P.5.1	257C	19	301.087	
TN	P.5.1	257C	22	561.403	
TN	P.5.1	257C	25	97.711	
TN	P.5.1	257C	37	85.105	
TN	P.5.1	257C	40	242.115	
TN	P.5.1	257C	43	64.329	
TN	P.5.1	257C	44	55.988	
TN	P.5.1	12C	00	0.823	
TN	P.5.1	812C	00	8.210	
TN	P.5.1	22C	00	4.587	
TN	P.5.1	45C	00	5.547	
TN	P.5.1	5C	00	10.205	
TN	P.5.1	822C	00	7.553	
TN	P.5.1	85C	00	13.908	
TN	P.5.1	845C	00	9.483	
	END				

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring 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.

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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 #	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 #

0001130

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 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 at 6/98.
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.)

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

Maximum of 25 entries per Cost Element #

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 200
PAGE: 1 of 1
DATE: NOVEMBER 1999

ELECTRONICS INVESTMENT

FRC / Sub FRC	257C 03	257C 06	257C 09	257C 15	257C 19	257C 22	257C 25	257C 37	257C 40	257C 43	257C 44	12C 00	812C 00	Source
Design 1	$ 29.173		$ 70.661		$ 19.564			$ 50.685			$ 55.988	$ 0.235		WP 311, Lines 47 thru 53
Design 2	$ 12.060	$ 78.489	$ 52.614	$ 15.715	$ 112.702	$ 293.756	$ 52.614						$ 4.421	WP 321, Lines 47 thru 54
Design 3	$ 9.830	$ 36.331	$ 22.549	$ 2.055	$ 71.611	$ 141.752	$ 22.549						$ 1.895	WP 331, Lines 48 thru 55
Design 4	$ 81.788	$ 56.063	$ 214.233	$ 11.225	$ 48.910			$ 27.301	$ 206.343	$ 37.581		$ 0.588		WP 341, Lines 54 thru 62
Design 5	$ 5.582	$ 57.839	$ 22.549	$ 2.055	$ 48.301	$ 125.895	$ 22.549	$ 7.118	$ 35.771	$ 26.748			$ 1.895	WP 351, Lines 65 thru 75
TOTAL	$ 138.433	$ 228.721	$ 382.604	$ 31.050	$ 301.087	$ 561.403	$ 97.711	$ 85.105	$ 242.115	$ 64.329	$ 55.988	$ 0.823	$ 8.210	

TRANSPORT INVESTMENT

FRC / Sub FRC	22C 00	45C 00	5C 00	822C 00	85C 00	845C 00	Source
Design 1	$ 2.823	$ 3.413	$ 6.280				WP 311, Lines 44 thru 46
Design 2				$ 4.754	$ 8.753	$ 5.968	WP 322, Lines 37 thru 39
Design 3				$ 0.621	$ 1.144	$ 0.780	WP 332, Lines 39 thru 41
Design 4	$ 1.764	$ 2.133	$ 3.925	$ 0.849	$ 1.563	$ 1.066	WP 342, Lines 37 thru 42
Design 5				$ 1.329	$ 2.448	$ 1.669	WP 352, Lines 40 thru 42
TOTAL	$ 4.587	$ 5.547	$ 10.205	$ 7.553	$ 13.908	$ 9.483	

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

DESIGN #1
TRANSPORT MATERIAL

STATE: TENNESSEE
WORKPAPER 311
PAGE: 1 of 1
DATE: NOVEMBER 1999

DEVELOPMENT OF COPPER TRANSPORT UTILIZED MATERIAL

LINE NO.	FRC	Sub-FRC	Description	(A) Material Price Per Pair Per Foot	(B) = (A) * 2 Material Price (4 wire) 2 Pair Per Foot	(C)= (B) * 2640 Material Price 1/2 Mile (2640 * (B)	(D) Dist. to Dist. to Code	(E) =(C)*(D) Copper Cable Weighted Mat'l Price	(F) Route To Air Ratio	(G)=(E)*(F) Total Mat'l Price Per 1/2 Mile (Air Miles)	(H) Utilization	(I)=(G)/(H) Total Mat'l Price Per 1/2 Mile Utilized	Source
1	22C	00	Aerial Ca. - 26 Gauge Copper per pair foot	$0.004025	$0.008050	$21.252	0.239	$5.079	1.34	$ 6.806	0.651	$ 10.455	Input Sheet Line 61, 65, 83, 84
2	45C	00	Buried Ca. - 26 Gauge Copper per pair foot	$0.004867	$0.009734	$25.698	0.239	$6.142	1.34	$ 8.230	0.651	$ 12.642	Input Sheet Line 62, 66, 83, 84
3	5C	00	Underground Ca. - 26 Gauge Copper per pair foot	$0.004100	$0.008200	$21.648	0.522	$11.300	1.34	$ 15.142	0.651	$ 23.260	Input Sheet Line 63,67, 83,84
4													
5													

LINE NO.	FRC	Sub-FRC	Description	(J) Material Price	(K) 4-Wire Capacity	(L) Route To Air Ratio	(M)=(J)/(K)*(L) Total Mat'l Price Per 1/2 Mile (Air Miles)	(N) Utilization	(O)=(M)/(N) Total Utilized Mat'l Per 1/2 Mile	Source
6										
7										
8										
9										
10										
11	257C	44	Line Repeater - Addressable Rptr.	[redacted]		1.34	$ 364.480	0.651	$ 559.877	Input Sheet Line 69, 83, 84
12	257C	37	Line Repeater - App. Case			1.34	$ 329.962	0.651	$ 506.853	Input Sheet line 70, 83, 84
13										
14										

LINE NO.	FRC	Sub-FRC	Description	(P) Material Price	(Q) 4-Wire Capacity	(R) =(P)/(Q) Total Mat'l Price	(S) Utilization	(T)=(R)/(S) Total Utilized Mat'l Price	Source
15									
16									
17									
18									
19	257C	03	C.O. Repeater - Shelf	[redacted]		$ 189.286	0.651	$ 290.761	Input Sheet Line 72, 84
20	257C	09	C.O. Repeater			$ 460.000	0.651	$ 706.605	Input Sheet line 73, 84
21									
22									
23									
24									
25									
26									
27									Input Sheet Line 75

LINE NO.	FRC	Sub-FRC	Description	(Z) Material Price	(AA) 4-Wire Capacity	(AB)=(Z)*(AA) Total Mat'l Price	(AC) Utilization	(AD) Avg. Distance	(AE)=(AB)/(AC) * (AD)) Total Utilized Mat'l	Source
28										
29										
30										
31										
32										
33	12C	00	Aerial Ca - Metal - Bldg. Entrance per pair foot	$ 0.0047	2	$ 0.009	1	250	$ 2.350	Input Sheet Line 79, 82
34	257C	03	DSX Panel per termination	$ 0.6300	1	$ 0.630	0.651		$ 0.968	Input Sheet Line 80, 84
35	257C	19	Network Interface	$ 195.639	1	$ 195.639	1		$ 195.639	Input Sheet Line 45
36										
37										
38			Design 1 Probability of Occurrence	10%						Input Sheet Line 89
39			State Average Air 1/2 miles	2.7						Input Sheet Line 85
40										

41 SUMMARY BY FRC

	FRC	Sub-FRC	Description	SOURCE	(AF) MATERIAL	(AG) WEIGHTED MATERIAL	SOURCE
42							
43							
44	22C	00	Aerial Ca - Metal	LINE 1, COL. I	$ 10.455	$ 2.823	Col (AF) * Line 38 * Line 39
45	45C	00	Buried Ca - Metal	LINE 2, COL. I	$ 12.642	$ 3.413	Col (AF) * Line 38 * Line 39
46	5C	00	Underground Ca - Metal	LINE 3, COL. I	$ 23.260	$ 6.280	Col (AF) * Line 38 * Line 39
47	257C	03	Digt Circ - Pair Gain - C.O. - Hardwired	LINE 19 COL. T + LINE 34, COL. AE	$ 291.729	$ 29.173	Col (AF) * Line 38
48	257C	09	Digt Circ - Pair Gain - C.O. - Def. Plug-in	LINE 20, COL. T	$ 706.605	$ 70.661	Col (AF) * Line 38
49	257C	19	Digt Circ - Pair Gain - Prem - Hardwired	LINE 35, COL. AE	$ 195.639	$ 19.564	Col (AF) * Line 38
50	257C	37	Digt Circ - Pair Gain - Remote - Hardwired	LINE 12, COL. O	$ 506.853	$ 50.685	Col (AF) * Line 38
51	257C	44	Digt Circ - Pair Gain - Remote - Def. Plug-in	LINE 11, COL. O	$ 559.877	$ 55.988	Col (AF) * Line 38
52							
53	12C	00	Aerial Ca - Metal - Building Entrance	LINE 33, COL. AE	$ 2.350	$ 0.235	Col (AF) * Line 38
54			TOTAL DESIGN 1		$ 2,309.411	$ 238.822	

0001133

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 321
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #2

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE					
2						
3	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	03	INPUT SHEET LINE 12	$ 17.682
4	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	09	INPUT SHEET LINE 13	$ 150.325
5						
6	C.O. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	06	INPUT SHEET LINE 11	$ 73.973
7						
8	C.O. Node - OC- 3	OC - 3	257C	03	INPUT SHEET LINE 21	$ 16.774
9	C.O. Node - OC- 3	OC - 3	257C	06	INPUT SHEET LINE 22	$ 150.280
10						
11	Data Communications - OC- 3	OC - 3	257C	15	INPUT SHEET LINE43	$ 44.901
12						
13	POINT OF TERMINATION (CP)					
14						
15	C.P. Interface DS1 on OC- 3 - Working	OC - 3	257C	19	INPUT SHEET LINE 28	$ 17.682
16	C.P. Interface DS1 on OC- 3 - Working	OC - 3	257C	25	INPUT SHEET LINE 29	$ 150.325
17						
18	C.P. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	22	INPUT SHEET LINE 27	$ 73.973
19						
20	Battery Back-up - OC- 3 (CP)	OC - 3	257C	19	INPUT SHEET LINE 7	$ 17.161
21	Battery Back-up - OC- 3 (CP)	OC - 3	257C	22	INPUT SHEET LINE 8	$ 13.928
22						
23	C.P. Node - OC- 3	OC - 3	257C	19	INPUT SHEET LINE 37	$ 18.305
24	5 NODES	OC - 3	257C	19	LINE 23 * 5	$ 91.524
25						
26	C.P. Node - OC- 3	OC - 3	257C	22	INPUT SHEET LINE 38	$ 150.280
27	5 NODES	OC - 3	257C	22	LINE 26 * 5	$ 751.401
28	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
29	Fiber Building Entrance Cable - OC- 3	OC - 3	812C	00	INPUT SHEET LINE 48	$ 12.631
30						
31	SUMMARY BY FRC					
32						
33	Digtl Circ C.O. - Hardwired		257C	03	LINE 3 + LINE 8	$ 34.46
34	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 6 + LINE 9	$ 224.25
35	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4	$ 150.33
36	Digtl Circ C.O. - Combined		257C	15	LINE 11	$ 44.90
37	Digtl Circ Prem - Hardwired		257C	19	LINE 15, 20, 24, 28	$ 322.01
38	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 18, 21, 27	$ 839.30
39	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 16	$ 150.33
40	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 29	$ 12.63
41	TOTAL DESIGN 2 ELECTRONIC MATERIAL				SUM LINES 33 THRU 40	$ 1,778.20
42						
43	Design 2 Probability of Occurrence				INPUT SHEET LINE 90	35%
44						
45	TOTAL DESIGN 2 ELECTRONIC MATERIAL-WEIGHTED					
46						
47	Digtl Circ C.O. - Hardwired		257C	03	LINE 33 * LINE 43	$ 12.060
48	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 34 * LINE 43	$ 78.489
49	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 35 * LINE 43	$ 52.614
50	Digtl Circ C.O. - Combined		257C	15	LINE 36 * LINE 43	$ 15.715
51	Digtl Circ Prem - Hardwired		257C	19	LINE 37 * LINE 43	$ 112.702
52	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 38 * LINE 43	$ 293.756
53	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 39 * LINE 43	$ 52.614
54	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 40 * LINE 43	$ 4.421
55					SUM LINES 47 THRU 54	$ 622.37

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 322
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #2

TRANSPORT MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
	WEIGHTED MATERIAL PER MILE PER STRAND (ROUTE)					
1	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	INPUT SHEET LINE 5	$ 0.797
2	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	INPUT SHEET LINE 46	$ 1.468
3	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	INPUT SHEET LINE 9	$ 1.001
4						
5						
6						
7	WEIGHTED MATERIAL PER 1/2 MILE (ROUTE)					
8						
9	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	LINE 1 / 2	$ 0.399
10	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 2 / 2	$ 0.734
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 3 / 2	$ 0.500
12						
13						
14						
15						
16	Number of Strands per Ring				INPUT SHEET LINE 88	3
17						
18						
19						
20	Route to Air Ratio (RTA)				INPUT SHEET LINE 83	1.34
21						
22						
23	WEIGHTED MATERIAL PER 1/2 MILE (AIR MILES)					
24						
25	Aerial Fiber - Per Wgtd Fiber Mile - OC-3	OC - 3	822C	00	LINE 9 * LINE 16 * LINE 20	$ 1.602
26	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 10 * LINE 16 * LINE 20	$ 2.950
27	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 11 * LINE 16 * LINE 20	$ 2.011
28						
29	Design 2 Probability of Occurrence				INPUT SHEET LINE 90	35%
30						
31	State Average Air 1/2 miles				INPUT SHEET LINE 85	2.7
32	Ratio Of Circumference To The Diameter				INPUT SHEET LINE 86	3.14
33	Of A Circle					
34	STATE AVERAGE AIR 1/2 MILES - FIBER RING				LINE 31 * LINE 32	8.478
35						
36	TOTAL DESIGN 2 TRANSPORT MATERIAL-WEIGHTED					
37	Aerial Fiber - Per Wgtd Fiber Mile - OC-3	OC - 3	822C	00	LINE 25 * LINE 29 * LINE 34	$ 4.754
38	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 26 * LINE 29 * LINE 34	$ 8.753
39	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 27 * LINE 29 * LINE 34	$ 5.968

DESIGN #3

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE - ELECTRONICS (OC-3+)					
2						
3	C.O. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	03	INPUT SHEET LINE 15	$ 17.682
4	C.O. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	09	INPUT SHEET LINE 16	$ 150.325
5						
6	C.O. Interface DS1 on OC- 3+ - Mux & Protect	OC - 3+	257C	06	INPUT SHEET LINE 14	$ 69.988
7						
8	C.O. Node - OC- 3+	OC - 3+	257C	03	INPUT SHEET LINE 23	$ 47.854
9	C.O. Node - OC- 3+	OC - 3+	257C	06	INPUT SHEET LINE 24	$ 172.219
10						
11	Data Communications - OC-12	OC - 3+	257C	15	INPUT SHEET LINE 44	$ 13.698
12						
13	POINT OF TERMINATION (CP) (OC-3+)					
14						
15	C.P. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	19	INPUT SHEET LINE 31	$ 17.682
16	C.P. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	25	INPUT SHEET LINE 32	$ 150.325
17						
18	C.P. Interface DS1 on OC- 3+ - Mux & Protect	OC - 3+	257C	22	INPUT SHEET LINE 30	$ 69.988
19						
20	Battery Back-up - OC- 3 (CP)	OC - 3+	257C	19	INPUT SHEET LINE 7	$ 17.161
21	Battery Back-up - OC- 3 (CP)	OC - 3+	257C	22	INPUT SHEET LINE 8	$ 13.928
22						
23	C.P. Node - OC- 3+	OC - 3+	257C	19	INPUT SHEET LINE 39	$ 49.385
24	5 NODES	OC - 3+	257C	19	LINE 23 * 5	$ 246.924
25						
26	C.P. Node - OC- 3+	OC - 3+	257C	22	INPUT SHEET LINE 40	$ 172.219
27	5 NODES	OC - 3+	257C	22	LINE 26 * 5	$ 861.097
28	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
29	Fiber Building Entrance Cable - OC- 3	OC - 3	812C	00	INPUT SHEET LINE 48	$ 12.631
30						
31						
32	SUMMARY BY FRC					
33						
34	Digtl Circ C.O. - Hardwired		257C	03	SUM LINES 3, 8	$ 65.54
35	Digtl Circ C.O. - Com. Plug-in		257C	06	SUM LINES 6, 9	$ 242.21
36	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4	$ 150.33
37	Digtl Circ C.O. - Combined		257C	15	LINE 11	$ 13.70
38	Digtl Circ Prem - Hardwired		257C	19	SUM LINES 15, 20, 24, 28	$ 477.41
39	Digtl Circ Prem - Com. Plug-in		257C	22	SUM LINES 18, 21, 27	$ 945.01
40	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 16	$ 150.33
41	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 29	$ 12.631
42	TOTAL DESIGN 3 ELECTRONIC MATERIAL				SUM LINES 34 THRU 41	$ 2,057.14
43						
44	Design 3 Probability of Occurrence				INPUT SHEET LINE 91	15%
45						
46	TOTAL DESIGN 3 ELECTRONIC MATERIAL-WEIGHTED					
47						
48	Digtl Circ C.O. - Hardwired		257C	03	LINE 34 * LINE 44	$ 9.830
49	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 35 * LINE 44	$ 36.331
50	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 36 * LINE 44	$ 22.549
51	Digtl Circ C.O. - Combined		257C	15	LINE 37 * LINE 44	$ 2.055
52	Digtl Circ Prem - Hardwired		257C	19	LINE 38 * LINE 44	$ 71.611
53	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 39 * LINE 44	$ 141.752
54	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 40 * LINE 44	$ 22.549
55	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 41 * LINE 44	$ 1.895
56					SUM LINES 48 THRU 55	$ 308.57

DESIGN #3

TRANSPORT MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
	WEIGHTED MATERIAL PER MILE PER STRAND (ROUTE)					
1	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	INPUT SHEET LINE 6	$ 0.243
2	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	INPUT SHEET LINE 47	$ 0.448
3	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	INPUT SHEET LINE 10	$ 0.305
4						
5						
6						
7	WEIGHTED MATERIAL PER 1/2 MILE (ROUTE)					
8						
9	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	LINE 1 / 2	$ 0.122
10	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	LINE 2 / 2	$ 0.224
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	LINE 3 / 2	$ 0.153
12						
13						
14						
15						
16	Number of Strands per Ring				INPUT SHEET LINE 88	3
17						
18						
19						
20	Route to Air Ratio (RTA)				INPUT SHEET LINE 83	1.34
21						
22						
23	WEIGHTED MATERIAL PER 1/2 MILE (AIR MILES)					
24						
25	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	LINE 9 * LINE 16 * LINE 20	$ 0.489
26	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	LINE 10 * LINE 16 * LINE 20	$ 0.900
27	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	LINE 11 * LINE 16 * LINE 20	$ 0.613
28						
29						
30						
31	Design 3 Probability of Occurrence				INPUT SHEET LINE 91	15%
32						
33	State Average Air 1/2 miles				INPUT SHEET LINE 85	2.7
34	Ratio Of Circumference To The Diameter				INPUT SHEET LINE 86	3.14
35	Of A Circle					
36	STATE AVERAGE AIR 1/2 MILES - FIBER RING				LINE 33 * LINE 34	8.478
37						
38	TOTAL DESIGN 3 TRANSPORT MATERIAL-WEIGHTED					
39	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	LINE 25 * LINE 31 * LINE 36	$ 0.621
40	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	LINE 26 * LINE 31 * LINE 36	$ 1.144
41	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	LINE 27 * LINE 31 * LINE 36	$ 0.780

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 341
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #4

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE					
2						
3	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	03	INPUT SHEET LINE 12	$ 17.682
4	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	09	INPUT SHEET LINE 13	$ 150.325
5						
6	C.O. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	06	INPUT SHEET LINE 11	$ 73.973
7						
8	C.O. Node - OC- 3	OC - 3	257C	03	INPUT SHEET LINE 21	$ 16.774
9	C.O. Node - OC- 3	OC - 3	257C	06	INPUT SHEET LINE 22	$ 150.280
10						
11	Data Communications - OC- 3	OC - 3	257C	15	INPUT SHEET LINE 43	$ 44.901
12						
13	POINT OF TERMINATION (CP)					
14	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
15	Aerial Ca - Metal - Building Entrance		12C	00	WP 311, LN 33, COL. AE	$ 2.350
16						
17	FIBER HUB					
18						
19	Hub Node - OC- 3	OC - 3	257C	37	INPUT SHEET LINE 56	$ 18.305
20	5 NODES	OC - 3	257C	37	LINE 19 * 5	$ 91.524
21						
22	Hub Node - OC- 3	OC - 3	257C	40	INPUT SHEET LINE 57	$ 150.280
23	5 NODES	OC - 3	257C	40	LINE 22 * 5	$ 751.401
24						
25	DSX Panel per termination		257C	03	WP 311, LN 34 COL. AE	$ 0.968
26	2 PANELS		257C	03	LINE 25 *2	$ 1.935
27						
28	C.O. Repeater - Shelf		257C	03	WP 311, LN 19 COL. T	$ 290.761
29	C.O. Repeater		257C	09	WP 311, LN 20 COL. T	$ 706.605
30						
31	Hub Interface DS1 on OC- 3 - Mux & Protect	0C - 3	257C	40	INPUT SHEET LINE 49	$ 73.973
32						
33	Hub Interface DS1 on OC- 3 - Working	0C - 3	257C	37	INPUT SHEET LINE 50	$ 17.682
34	Hub Interface DS1 on OC- 3 - Working	0C - 3	257C	43	INPUT SHEET LINE 51	$ 150.325
35						
36						
37	SUMMARY BY FRC					
38						
39	Digtl Circ C.O. - Hardwired		257C	03	LINES 3, 8, 26, 28	$ 327.153
40	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 6, 9	$ 224.253
41	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4, 29	$ 856.930
42	Digtl Circ C.O. - Combined		257C	15	LINE 11	$ 44.901
43	Digtl Circ Prem - Hardwired		257C	19	LINE 14	$ 195.639
44	Digtl Circ Remote - Hardwired		257C	37	LINE 20, 33	$ 109.205
45	Digtl Circ Remote - Com. Plug-in		257C	40	LINES 23, 31	$ 825.374
46	Digtl Circ Remote - Def. Plug-in		257C	43	LINE 34	$ 150.325
47	Aerial Ca - Metal - Building Entrance		12C	00	LINE 15	$ 2.350
48	TOTAL DESIGN 4 ELECTRONIC MATERIAL				SUM LINES 39 THRU 47	$ 2,736.131
49						
50	Design 4 Probability of Occurrence				INPUT SHEET LINE 92	25%
51						
52	TOTAL DESIGN 4 ELECTRONIC MATERIAL-WEIGHTED					
53						
54	Digtl Circ C.O. - Hardwired		257C	03	LINE 39 * LINE 50	$ 81.788
55	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 40 * LINE 50	$ 56.063
56	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 41 * LINE 50	$ 214.233
57	Digtl Circ C.O. - Combined		257C	15	LINE 42 * LINE 50	$ 11.225
58	Digtl Circ Prem - Hardwired		257C	19	LINE 43 * LINE 50	$ 48.910
59	Digtl Circ Remote - Hardwired		257C	37	LINE 44 * LINE 50	$ 27.301
60	Digtl Circ Remote - Com. Plug-in		257C	40	LINE 45 * LINE 50	$ 206.343
61	Digtl Circ Remote - Def. Plug-in		257C	43	LINE 46 * LINE 50	$ 37.581
62	Aerial Ca - Metal - Building Entrance		12C	00	LINE 47 * LINE 50	$ 0.588
63	TOTAL DESIGN 4 ELECTRONIC MATERIAL				SUM LINES 54 THRU 62	$ 684.033

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 342
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #4

TRANSPORT MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
	CO TO HUB TRANSPORT BY FRC					
	WEIGHTED MATERIAL PER 1/2 MILE					
1	Aerial fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	WP322, LINE 25	$ 1.602
2	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	WP322, LINE 26	$ 2.950
3	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	WP322, LINE 27	$ 2.011
4	Probability of Occurrence				50.00% INPUT SHEET LINE 96	
5	State Average Air 1/2 Miles				2.7 INPUT SHEET LINE 85	
6	Ratio Of Circumference To The Diameter				3.14 INPUT SHEET LINE 86	
7	Of A Circle					
8	Weighted 1/2 Mile Distance				4.2 LINE 4 * LINE 5 * LINE 6	
9						
10						
11	MATERIAL PER 1/2 MILE - WEIGHTED					
12	Aerial fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	LINE 1 * LINE 8 * 1/2	$ 3.395
13	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 2 * LINE 8 * 1/2	$ 6.252
14	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 3 * LINE 8 * 1/2	$ 4.263
15						
16			TOTAL		SUM LINES 12 THRU 14	$ 13.910
17						
18	HUB TO CP COPPER TRANSPORT BY FRC					
19	MATERIAL PER 1/2 MILE					
20	Aerial Ca. - 26 Gauge Copper per pair foot		22C	00	WP 311. LINE 1	$ 10.455
21	Underground Ca. - 26 Gauge Copper per pair foot		5C	00	WP 311. LINE 3	$ 23.260
22	Buried Ca. - 26 Gauge Copper per pair foot		45C	00	WP 311. LINE 2	$ 12.642
23	Probability of Occurrence - Copper				50.00% INPUT SHEET LINE97	
24	State Average Air 1/2 Miles				2.7 INPUT SHEET LINE 85	
25	Weighted 1/2 Mile Distance				1.35 LINE 23 * LINE 24	
26	Aerial Ca. - 26 Gauge Copper per pair foot		22C	00	LINE 20 * LINE 25 * 1/2	$ 7.057
27	Underground Ca. - 26 Gauge Copper per pair foot		5C	00	LINE 21 * LINE 25 * 1/2	$ 15.701
28	Buried Ca. - 26 Gauge Copper per pair foot		45C	00	LINE 22 * LINE 25 * 1/2	$ 8.533
29						
30			TOTAL		SUM LINES 26 THRU 28	$ 31.291
31						
32	Design 4 Probability of Occurrence				INPUT SHEET LINE 92	25%
33						
34						
35	TOTAL DESIGN 4 TRANSPORT MATERIAL-WEIGHTED					
36						
37	Aerial Ca - Fiber	OC - 3	822C	00	LINE 12 * LINE 32	$ 0.849
38	Aerial Ca - Metal - Bldg. Entrance	OC - 3	85C	00	LINE 13 * LINE 32	$ 1.563
39	Buried Ca - Fiber	OC - 3	845C	00	LINE 14 * LINE 32	$ 1.066
40	Aerial Ca. - Copper		22C	00	LINE 26 * LINE 32	$ 1.764
41	Underground Ca - Copper		5C	00	LINE 27 * LINE 32	$ 3.925
42	Buried Ca - Copper		45C	00	LINE 28 * LINE 32	$ 2.133
43						
44			TOTAL			$ 11.300

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 351
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #5

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE					
2						
3	C.O. Interface DS1 on OC-12 - Working	OC - 12	257C	03	INPUT SHEET LINE 19	$ 17.682
4	C.O. Interface DS1 on OC-12 - Working	OC - 12	257C	09	INPUT SHEET LINE 20	$ 150.325
5						
6	C.O. Interface DS1 on OC-12 - Mux & Protect	OC - 12	257C	03	INPUT SHEET LINE 17	$ 10.489
7	C.O. Interface DS1 on OC-12 - Mux & Protect	OC - 12	257C	06	INPUT SHEET LINE 18	$ 297.395
8						
9	C.O. Node - OC-12	OC - 12	257C	03	INPUT SHEET LINE 25	$ 9.043
10	C.O. Node - OC-12	OC - 12	257C	06	INPUT SHEET LINE 26	$ 88.195
11						
12	Data Communications - OC-12	OC - 12	257C	15	INPUT SHEET LINE 44	$ 13.698
13						
14	FIBER HUB					
15						
16	Hub Node - OC-12	OC - 12	257C	37	INPUT SHEET LINE 58	$ 9.510
17	Hub Node - OC-12	OC - 12	257C	40	INPUT SHEET LINE 59	$ 88.195
18						
19	Hub Interface STS-1 on OC-12	OC - 12	257C	37	INPUT SHEET LINE 54	$ 9.821
20	Hub Interface STS-1 on OC-12	OC - 12	257C	43	INPUT SHEET LINE 55	$ 55.669
21						
22	Hub Interface STS-1 on OC- 3	OC - 3	257C	37	INPUT SHEET LINE 52	$ 9.821
23	Hub Interface STS-1 on OC- 3	OC - 3	257C	43	INPUT SHEET LINE 53	$ 122.652
24						
25	Hub Node - OC- 3	OC - 3	257C	37	INPUT SHEET LINE 56	$ 18.305
26	Hub Node - OC- 3	OC - 3	257C	40	INPUT SHEET LINE 57	$ 150.280
27						
28	CUSTOMER PREMISES ELECTRONICS					
29						
30	C.P. Node - OC- 3	OC - 3	257C	19	INPUT SHEET LINE 37	$ 18.305
31	5 NODES	OC - 3	257C	19	LINE 30 * 5	$ 91.524
32						
33	C.P. Node - OC- 3	OC - 3	257C	22	INPUT SHEET LINE 38	$ 150.280
34	5 NODES	OC - 3	257C	22	LINE 33 * 5	$ 751.401
35						
36	Aerial Ca - Metal - Bldg. Entrance	OC - 3	257C	19	INPUT SHEET LINE 28	$ 17.682
37	C.P. Interface DS1 on OC- 3 - Working	OC - 3	257C	25	INPUT SHEET LINE 29	$ 150.325
38						
39	C.P. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	22	INPUT SHEET LINE 27	$ 73.973
40						
41	Battery Back-up - OC- 3 (CP)	OC - 3	257C	19	INPUT SHEET LINE 7	$ 17.161
42	Battery Back-up - OC- 3 (CP)	3.5	257C	22	INPUT SHEET LINE 8	$ 13.928
43						
44	Fiber Building Entrance Cable - OC- 3	OC - 3	812C	00	INPUT SHEET LINE 48	$ 12.631
45	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
46	SUMMARY BY FRC					
47						
48	Digtl Circ C.O. - Hardwired		257C	03	LINES 3, 6, 9	$ 37.214
49	Digtl Circ C.O. - Com. Plug-in		257C	06	LINES 7, 10	$ 385.590
50	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4	$ 150.325
51	Digtl Circ C.O. - Combined		257C	15	LINE 12	$ 13.698
52	Digtl Circ C.O. - Def. Plug-in		257C	19	LINES 31, 36, 41, 45	$ 322.005
53	Digtl Circ Prem - Com. Plug-in		257C	22	LINES 34, 39, 42	$ 839.302
54	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 37	$ 150.325
55	Digtl Circ Remote - Com. Hardwired		257C	37	LINES 16, 19, 22, 25	$ 47.457
56	Digtl Circ Remote - Com. Plug-in		257C	40	LINES 17, 26	$ 238.476
57	Digtl Circ Remote - Def. Plug-in		257C	43	LINES 20, 23	$ 178.321
58	Aerial Ca - Metal - Building Entrance		812C	00	LINE 44	$ 12.631
59	TOTAL DESIGN 5 ELECTRONIC MATERIAL				SUM LINES 48 THRU 58	$ 2,375.343
60						
61	Design 5 Probability of Occurrence				INPUT SHEET LINE 93	15%
62						
63	TOTAL DESIGN 5 ELECTRONIC MATERIAL-WEIGHTED					
64						
65	Digtl Circ C.O. - Hardwired		257C	03	LINE 48 * LINE 61	$ 5.582
66	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 49 * LINE 61	$ 57.839
67	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 50 * LINE 61	$ 22.549
68	Digtl Circ C.O. - Combined		257C	15	LINE 51 * LINE 61	$ 2.055
69	Digtl Circ C.O. - Def. Plug-in		257C	19	LINE 52 * LINE 61	$ 48.301
70	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 53 * LINE 61	$ 125.895
71	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 54 * LINE 61	$ 22.549
72	Digtl Circ Remote - Com. Hardwired		257C	37	LINE 55 * LINE 61	$ 7.118
73	Digtl Circ Remote - Com. Plug-in		257C	40	LINE 56 * LINE 61	$ 35.771
74	Digtl Circ Remote - Def. Plug-in		257C	43	LINE 57 * LINE 61	$ 26.748
75	Aerial Ca - Metal - Building Entrance		812C	00	LINE 58 * LINE 61	$ 1.895
76	TOTAL DESIGN 5 ELECTRONIC MATERIAL-WEIGHTED				SUM LINES 65 THRU 75	$ 356.301

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 352
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #5
TRANSPORT MATERIAL

Line No.		FRC	SUB-FRC	SOURCE	(A) PER MILE PER STRAND (ROUTE MILES)	(B) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(C)=(A)*(B)/2 PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(D) ROUTE TO AIR RATIO	(E) = (C)*(D) TOTAL MATERIAL PER 1/2 MILE PER ARRANGEMENT (AIR MILES)
	CENTRAL OFFICE TO FIBER HUB OC-12								
1	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	INPUT SHEET LINE 6	$ 0.243	3	$ 0.365	1.34	$ 0.489
2	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	INPUT SHEET LINE 10	$ 0.305	3	$ 0.458	1.34	$ 0.613
3	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	INPUT SHEET LINE 47	$ 0.448	3	$ 0.672	1.34	$ 0.900
4									
5	FIBER HUB TO CUSTOMER PREMISES OC-3								
6									
7	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	INPUT SHEET LINE 5	$ 0.797	3	$ 1.196	1.34	$ 1.602
8	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	INPUT SHEET LINE 9	$ 1.001	3	$ 1.501	1.34	$ 2.011
9	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	INPUT SHEET LINE 46	$ 1.468	3	$ 2.201	1.34	$ 2.950
10									

Line No.	WEIGHTED TRANSPORT MATERIAL	FRC	SUB-FRC	SOURCES COLUMN (A)	(A) TOTAL INST PER 1/2 MILE	(B) PROBABILITY FROM NTWK	(C)=(A)*(B)
11							
12							
13							
14	CO TO HUB OC-12						
15							
16	Aerial Fiber - OC-12	822C	00	Col (E) Ln 1	$ 0.489	50.00%	$ 0.244
17	Buried Fiber - OC-12	845C	00	Col (E) Ln 2	$ 0.613	50.00%	$ 0.307
18	UG- Fiber - OC-12	85C	00	Col (E) Ln 3	$ 0.900	50.00%	$ 0.450
19							
20							
21	HUB TO CUSTOMER PREMISES OC-3						
22							
23	Aerial Fiber - OC-3	822C	00	Col (E) Ln 7	$ 1.602	50.00%	$ 0.801
24	Buried Fiber - OC-3	845C	00	Col (E) Ln 8	$ 2.011	50.00%	$ 1.006
25	UG Fiber - OC- 3	85C	00	Col (E) Ln 9	$ 2.950	50.00%	$ 1.475
26							
27	TOTAL LOOP MATERIAL						
28							
29	AERIAL FIBER	822C	00	SUM LINE 16, 23	$ 1.045		
30	BURIED FIBER	845C	00	SUM LINE 17, 24	$ 1.312		
31	UNDERGROUND FIBER	85C	00	SUM LINE 18, 25	$ 1.925		
32							
33	Design 5 Probability of Occurrence			INPUT SHEET LINE 93		15%	
34	State Average Air 1/2 miles			INPUT SHEET LINE 85		2.7	
35	Ratio Of Circumference To The Diameter			INPUT SHEET LINE 86		3.14	
36	Of A Circle						
37							
38	TOTAL WEIGHTED TRANSPORT MATERIALS						
39							
40	AERIAL FIBER	822C	00	LINE 29 * 33 * 34 * 35	$ 1.329		
41	BURIED FIBER	845C	00	LINE 30 * 33 * 34 * 35	$ 1.669		
42	UNDERGROUND FIBER	85C	00	LINE 31 * 33 * 34 * 35	$ 2.448		

State: TN
Workpaper: Inputs
Cost Element: 4-Wire ISDN DS1

LN		Description	Source	Value	Value	Value
1						
2	P.5.2	Exchange Port - 4-Wire ISDN DS1 Digital Trunk Port				
3						
4						
5						
6		SCIS Model Office	SCIS/MO Version 2.3			
7					FRC	Sub FRC
8		5ESS				
9		Minimum Cost per D Channel			377C	03
10		Minimum Investment per B Channel			377C	03
11		Inherent Functionality Investment	SCIS/IN Feature Runs			
12		Calling Number Delivery	Feature #194		377C	03
13		Incremental Usage	Feature # 192		377C	03
14		Getting Started Investment	Total Investment Report		377C	03
15						
16		DMS				
17		Minimum Cost per D Channel			377C	03
18		Minimum Investment per B Channel			377C	03
19		Inherent Functionality Investment	SCIS/IN Feature Runs			
20		Calling Number Delivery	Feature #194		377C	03
21		Incremental Usage	Feature #192		377C	03
22		Getting Started Investment	Total Investment Report		377C	03
23		RTU Fees				
24		5ESS	Contract PR-6700-B			
25		Per Offcie RTU	PRI			
26		ISRIPRT (includes ISCCART) per PRI	ISDN Primary Rate Interface			
27		NISSPRI per PRI	NI2 - Basic			
28		Percent of PRIs Requiring NISSPRI	Product Management	1%		
29						
30		DMS	Contract PR6900			
31		NTX790AB per Office	PRI Interface Base			
32		NTX793AA per Office	Integrated Services Access			
33		NTX794AA per Office	PRI/CCS7 Interworking			
34		NTN53AA per Office	D Channel Back-up			
35						
36		NTX790AB per PRI	PRI Interface Base			
37						
38		Averge Number of PRIs per Office	Network	22		
39						
40		B Channels per PRI	Network	23		
41						
42		Technology Distribution	Demand & Facility Report - NALs			
43		5ESS		60.6%		
44		DMS		39.4%		
45						
46		Discount Rate	Study Assumption	9.93%		
47		Economic Life of Digital Switching				
48		Equipment (Months)	Network	120		
49						
50		Circuit Equipment	DS1 Channelization Price Calculator			
51		DSX Material Price per Port @ DS0		$0.630	357C	03
52		Utilization Factor		85%		
53		Number of DS0s per DS1	Standard Configuration	24		
54						
55						
56		Total Line Terminations	SCIS/MO Inputs	2,124,331		
57						
58						
59						
60						

State: TN
Workpaper: Inputs
Cost Element: 4-Wire ISDN DS1

LN		Description		Source	Value	Value
71						
72		**Inputs - Page 2 of 2**				
73						
74	P.5.3	First Loop/Port Combo, worktimes in hours	JFC		Install	Disconnect
75		Service Order	2300	Product Team	6.2500	
76		Connect				
77		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.0667	
78		CO Installation & Maintenance - Circuit & Facility	431X	Product Team	0.3333	
79		Circuit Provisioning Group (CPG)	470X	Product Team	0.9167	
80		Switch & Trunk Based Translations	4N2X	Product Team	0.3333	
81		Address & Facility Inventory (AFIG)	400X	Product Team	0.0040	
82						
83		Additional Loop/Port Combo, worktimes in hours				
84		Service Order	2300	Product Team	6.2500	
85		Connect				
86		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.0667	
87		CO Installation & Maintenance - Circuit & Facility	431X	Product Team	0.3333	
88		Circuit Provisioning Group (CPG)	470X	Product Team	0.9167	
89		Switch & Trunk Based Translations	4N2X	Product Team	0.3333	
90		Address & Facility Inventory (AFIG)	400X	Product Team	0.0040	
91						
92		Location Life (months)		Product Team	84	
93						
94	P.5.5	Channel Activation, worktimes in hours				
95		Connect				
96		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.2500	
97		Circuit Provisioning Group (CPG)	470X	Product Team	0.3125	
98		NISC Complex Translations Group	4N2X	Product Team	0.1667	
99						
100						
101	P.5.6	Inward/2-Way Telephone Numbers, worktimes in hours				
102		Connect				
103		RCMAG/MARCH	4N1X	Product Team	0.0250	
104						
105	P.5.7	Outward Telephone Numbers, worktimes in hours				
106		Connect				
107		NISC Complex Translations Group	4N2X	Product Team	0.5000	
108						
109	P.5.8	Inward Telephone Numbers, worktimes in hours				
110		Connect				
111		NISC Complex Translations Group	4N2X	Product Team	1.0000	
112						
113						
114	P.5.9	Subsequent Order, worktimes in hours				
115		Service Order	2300	Product Team	4.5000	

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.5.2	377C	03	1423.952	
TN	P.5.2	357C	03	17.788	
	END				

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring 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.

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN	P.5.2	RTU	21.090	9.271
	END			

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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 #	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 #			

0001447

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 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 at 6/98.
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.) Jun-98

					(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ PayBand	Installation Time (Hours)	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	P.5.3	84	Service Order	2300			6.2500		6.2500					
TN	P.5.3	84	Connect	4AXX			0.0667		0.0667					
TN	P.5.3	84	Connect	431X			0.3333		0.3333					
TN	P.5.3	84	Connect	470X			0.9167		0.9167					
TN	P.5.3	84	Connect	4N2X			0.3333		0.3333					
TN	P.5.3	84	Connect	400X			0.0040		0.0040					
TN	P.5.5	84	Connect	4AXX	0.2500									
TN	P.5.5	84	Connect	470X	0.3125									
TN	P.5.5	84	Connect	4N2X	0.1667									
TN	P.5.6	84	Connect	4N1X	0.0250									
TN	P.5.7	84	Connect	4N2X	0.5000									
TN	P.5.8	84	Connect	4N2X	1.0000									
TN	P.5.9	84	Service Order	2300	4.5000									
END														

State:	TN
Workpaper:	110
Cost Element:	4-Wire ISDN DS1
Cost Element:	P.5.2

LN	Description	Source	Value
1	Development of Investments		
2			
3	Number of B Channels per PRI	Wp Inputs, Ln40	23
4	5ESS Investment Development		
5	Minimum Cost per D Channel	Wp Inputs, Ln9	
6	Minimum Investment per B Channel	Wp Inputs, Ln10	
7	Inherent Functionality Investment		
8	Calling Number Delivery	Wp Inputs, Ln12	
9	Incremental Usage	Wp Inputs, Ln13	
10	Total Investment - 5ESS	Ln5+Ln6*Ln3+Ln8+Ln9	
11			
12	DMS Investment Development		
13	Minimum Cost per D Channel	Wp Inputs, Ln17	
14	Minimum Investment per B Channel	Wp Inputs, Ln18	
15	Inherent Functionality Investment		
16	Calling Number Delivery	Wp Inputs, Ln20	
17	Incremental Usage	Wp Inputs, Ln21	
18	Total Investment - DMS	Ln13+Ln14*Ln3+Ln16+Ln17	
19			
20	Technology Distribution		
21	5ESS	Wp Inputs, Ln43	60.6%
22	DMS	Wp Inputs, Ln44	39.4%
23			
24	Melded Investment - 377C 03	Ln10*Ln21+Ln18*Ln22	$1,409.36
25			
26	Getting Started Investment per Line		
27	5ESS Getting Started Investment	Wp Inputs, Ln14	
28	DMS Getting Started Investment	Wp Inputs, Ln22	
29	Total Getting Started Investment	Ln27 + Ln28	$ 31,007,734.000
30			
31	Total Line Terminations	Wp Inputs, Ln56	2,124,331
32			
33	Total Getting Started Investment per Line	Ln29 / Ln31	$ 14.596
34			
35	Total Investment per Port	Ln24 + Ln33	$ 1,423.952
36			
37			
38			
39			
40			
41	Circuit Equipment		
42	DSX Material Price per Port @ DS0	Wp Inputs, Ln51	$0.630
43	Utilization Factor	Wp Inputs, Ln52	85%
44	Utilized Material Price	Ln42/Ln43	$0.741
45	Number of DS0s per DS1	Wp Inputs, Ln53	24
46	Material Price - DS1	Ln44*Ln45	$17.788
47			
48			
49			
50			

State:	TN
Workpaper:	120
Cost Element:	4-Wire ISDN DS1
Cost Element:	P.5.2

LN	Description	Source	Value
1	Development of Recurring Additive		
2	RTU Fees		
3	5ESS		
4	Per Office RTU	Wp Inputs, Ln25	
5			
6	ISRIPRT (includes ISCCART) per PRI	Wp Inputs, Ln26	
7	NISSPRI per PRI	Wp Inputs, Ln27	
8	Percent of PRIs Requiring NISSPRI	Wp Inputs, Ln28	1%
9	5ESS RTU per PRI		
10			
11	DMS		
12	NTX790AB per Office	Wp Inputs, Ln31	
13	NTX793AA per Office	Wp Inputs, Ln32	
14	NTX794AA per Office	Wp Inputs, Ln33	
15	NTN53AA per Office	Wp Inputs, Ln34	
16	Total per Office - DMS	Ln12+Ln13+Ln14+Ln15	
17	NTX790AB per PRI	Wp Inputs, Ln36	
18			
19	Model Office Statistics		
20	PRIs per Office	Wp Inputs, Ln38	22
21			
22	Volume Sensitive RTU Fees		
23	5ESS	Ln9	
24	DMS	Ln17	
25	Melded	Ln23*Ln33+Ln24*Ln34	$1,629.567
26			
27	Volume Insensitive Expressed as a per Unit (PRI)		
28	5ESS	Ln4	
29	DMS	Ln16/Ln20	
30	Melded	Ln28*Ln33+Ln29*Ln34	$716.364
31			
32	Technology Distribution		
33	5ESS	Wp Inputs, Ln43	60.6%
34	DMS	Wp Inputs, Ln44	39.4%
35			
36	Conversion of Expense to Unit Recurring		
37	Volume Sensitive		
38	Discount Rate	Wp Inputs, Ln46	9.93%
39	Monthly Discount Rate	((1+Ln38)^(1/12))-1	0.792%
40	Economic Life of Digital Switch Equipment	Wp Inputs, Ln48	120
41	Unit Recurring	=PMT(Ln39,Ln40,Ln25)	$21.090
42			
43	Volume Insensitive		
44	Discount Rate	Wp Inputs, Ln46	9.93%
45	Monthly Discount Rate	((1+Ln44)^(1/12))-1	0.792%
46	Economic Life of Digital Switch Equipment	Wp Inputs, Ln48	120
47	Unit Recurring	=PMT(Ln45,Ln46,Ln30)	$9.271
48			
49			
50			

	A	B	C	D	E	F	G	H
1	**INPUTS**			M = Material				STATE: TENNESSEE
2	**4 WIRE DS1 LOOP**			H = Hardwire				DATE: NOVEMBER 1999
3				P = Plug in				
4	Description	State	Basis	Material Type	FRC	Sub-FRC	Total Material	Source
5	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	TN	DS1	M	822C	00	$ 0.7970	SONET Price Calculator
6	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	TN	DS1	M	822C	00	$ 0.2431	SONET Price Calculator
7	Battery Back-up - OC- 3 (CP)	TN	DS1	H	257C	19	$ 17.1607	SONET Price Calculator
8	Battery Back-up - OC- 3 (CP)	TN	DS1	P	257C	22	$ 13.9278	SONET Price Calculator
9	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	TN	DS1	M	845C	00	$ 1.0006	SONET Price Calculator
10	Buried Fiber - Per Wgtd Fiber Mile - OC-12	TN	DS1	M	845C	00	$ 0.3052	SONET Price Calculator
11	C.O. Interface DS1 on OC- 3 - Mux & Protect	TN	DS1	P	257C	06	$ 73.9729	SONET Price Calculator
12	C.O. Interface DS1 on OC- 3 - Working	TN	DS1	H	257C	03	$ 17.6819	SONET Price Calculator
13	C.O. Interface DS1 on OC- 3 - Working	TN	DS1	P	257C	09	$ 150.3250	SONET Price Calculator
14	C.O. Interface DS1 on OC- 3+ - Mux & Protect	TN	DS1	P	257C	06	$ 69.9877	SONET Price Calculator
15	C.O. Interface DS1 on OC- 3+ - Working	TN	DS1	H	257C	03	$ 17.6819	SONET Price Calculator
16	C.O. Interface DS1 on OC- 3+ - Working	TN	DS1	P	257C	09	$ 150.3250	SONET Price Calculator
17	C.O. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	H	257C	03	$ 10.4893	SONET Price Calculator
18	C.O. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	P	257C	06	$ 297.3947	SONET Price Calculator
19	C.O. Interface DS1 on OC-12 - Working	TN	DS1	H	257C	03	$ 17.6819	SONET Price Calculator
20	C.O. Interface DS1 on OC-12 - Working	TN	DS1	P	257C	09	$ 150.3250	SONET Price Calculator
21	C.O. Node - OC- 3	TN	DS1	H	257C	03	$ 16.7740	SONET Price Calculator
22	C.O. Node - OC- 3	TN	DS1	P	257C	06	$ 150.2802	SONET Price Calculator
23	C.O. Node - OC- 3+	TN	DS1	H	257C	03	$ 47.8541	SONET Price Calculator
24	C.O. Node - OC- 3+	TN	DS1	P	257C	06	$ 172.2194	SONET Price Calculator
25	C.O. Node - OC-12	TN	DS1	H	257C	03	$ 9.0428	SONET Price Calculator
26	C.O. Node - OC-12	TN	DS1	P	257C	06	$ 88.1953	SONET Price Calculator
27	C.P. Interface DS1 on OC- 3 - Mux & Protect	TN	DS1	P	257C	22	$ 73.9729	SONET Price Calculator
28	C.P. Interface DS1 on OC- 3 - Working	TN	DS1	H	257C	19	$ 17.6819	SONET Price Calculator
29	C.P. Interface DS1 on OC- 3 - Working	TN	DS1	P	257C	25	$ 150.3250	SONET Price Calculator
30	C.P. Interface DS1 on OC- 3+ - Mux & Protect	TN	DS1	P	257C	22	$ 69.9877	SONET Price Calculator
31	C.P. Interface DS1 on OC- 3+ - Working	TN	DS1	H	257C	19	$ 17.6819	SONET Price Calculator
32	C.P. Interface DS1 on OC- 3+ - Working	TN	DS1	P	257C	25	$ 150.3250	SONET Price Calculator
33	C.P. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	H	257C	19	$ 10.4893	SONET Price Calculator
34	C.P. Interface DS1 on OC-12 - Mux & Protect	TN	DS1	P	257C	22	$ 297.3947	SONET Price Calculator
35	C.P. Interface DS1 on OC-12 - Working	TN	DS1	H	257C	19	$ 17.6819	SONET Price Calculator
36	C.P. Interface DS1 on OC-12 - Working	TN	DS1	P	257C	25	$ 150.3250	SONET Price Calculator
37	C.P. Node - OC- 3	TN	DS1	H	257C	19	$ 18.3047	SONET Price Calculator
38	C.P. Node - OC- 3	TN	DS1	P	257C	22	$ 150.2802	SONET Price Calculator
39	C.P. Node - OC- 3+	TN	DS1	H	257C	19	$ 49.3847	SONET Price Calculator
40	C.P. Node - OC- 3+	TN	DS1	P	257C	22	$ 172.2194	SONET Price Calculator
41	C.P. Node - OC-12	TN	DS1	H	257C	19	$ 9.5098	SONET Price Calculator
42	C.P. Node - OC-12	TN	DS1	P	257C	22	$ 88.1953	SONET Price Calculator
43	Data Communications - OC- 3	TN	DS1	M	257C	15	$ 44.9014	SONET Price Calculator
44	Data Communications - OC-12	TN	DS1	M	257C	15	$ 13.6976	SONET Price Calculator
45	Network Interface	TN	DS1	H	257C	19	$ 195.6392	SONET Price Calculator
46	UG Fiber - Per Wgtd Fiber Mile - OC- 3	TN	DS1	M	85C	00	$ 1.4675	SONET Price Calculator
47	UG Fiber - Per Wgtd Fiber Mile - OC-12	TN	DS1	M	85C	00	$ 0.4477	SONET Price Calculator
48	Fiber Building Entrance Cable - OC- 3	TN	DS1	M	812C	00	$ 12.6307	SONET Price Calculator
49	Hub Interface DS1 on OC- 3 - Mux & Protect	TN	DS1	P	257C	40	$ 73.9729	SONET Price Calculator
50	Hub Interface DS1 on OC- 3 - Working	TN	DS1	H	257C	37	$ 17.6819	SONET Price Calculator
51	Hub Interface DS1 on OC- 3 - Working	TN	DS1	P	257C	43	$ 150.3250	SONET Price Calculator
52	Hub Interface STS-1 on OC- 3	TN	DS1	H	257C	37	$ 9.8210	SONET Price Calculator
53	Hub Interface STS-1 on OC- 3	TN	DS1	P	257C	43	$ 122.6524	SONET Price Calculator
54	Hub Interface STS-1 on OC-12	TN	DS1	H	257C	37	$ 9.8210	SONET Price Calculator
55	Hub Interface STS-1 on OC-12	TN	DS1	P	257C	43	$ 55.6689	SONET Price Calculator
56	Hub Node - OC- 3	TN	DS1	H	257C	37	$ 18.3047	SONET Price Calculator
57	Hub Node - OC- 3	TN	DS1	P	257C	40	$ 150.2802	SONET Price Calculator
58	Hub Node - OC-12	TN	DS1	H	257C	37	$ 9.5098	SONET Price Calculator
59	Hub Node - OC-12	TN	DS1	P	257C	40	$ 88.1953	SONET Price Calculator
60								
61	Aerial Ca. - 26 Gauge Copper per pair foot				22C	00	$ 0.004025	Loop Model
62	Buried Ca. - 26 Gauge Copper per pair foot				45C	00	$ 0.004867	Loop Model
63	Underground Ca. - 26 Gauge Copper per pair foot				5C	00	$ 0.004100	Loop Model
64								
65	Distribution to Code - Aerial Cable						0.239	Loop Model
66	Distribution to Code - Buried Cable						0.239	Loop Model
67	Distribution to Code - Underground Cable						0.522	Loop Model

	A	B	C	D	E	F	G	H
68								
69	Line Repeater - Addressable Rptr.				257C	44		Network
70	Line Repeater - App. Case				257C	37		Network
71								
72	C.O. Repeater - Shelf				257C	03		Network
73	C.O. Repeater				257C	09		Network
74								
75								
76								
77								
78								
79	Aerial Ca - Metal - Bldg. Entrance per pair foot				12C	00	$ 0.0047	Loop Model
80	DSX Panel per termination				257C	03	$ 0.630	Network
81								
82	Average Bldg. Entrance Length (Ft)						250	Loop Model
83	Route to Air Ratio (RTA)						1.34	TIRKS Data Base
84	Copper Utilization						0.651	Network
85	State Average Air 1/2 miles						2.7	CRIS Data Base
86	Ratio Of Circumference To The Diameter						3.14	PI
87	Of A Circle							
88	Number of Strands per Ring						3	Network
89	Design 1 Probability of Occurrence						10%	Network
90	Design 2 Probability of Occurrence						35%	Network
91	Design 3 Probability of Occurrence						15%	Network
92	Design 4 Probability of Occurrence						25%	Network
93	Design 5 Probability of Occurrence						15%	Network
94							100%	
95								
96	Probability of CO to Hub - Design 4 & 5						50.00%	Network
97	Probability of Hub to CP - Design 4 & 5						50.00%	Network
98							100.00%	

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.15.1	257C	03	138.433	
TN	P.15.1	257C	06	228.721	
TN	P.15.1	257C	09	382.604	
TN	P.15.1	257C	15	31.050	
TN	P.15.1	257C	19	301.087	
TN	P.15.1	257C	22	561.403	
TN	P.15.1	257C	25	97.711	
TN	P.15.1	257C	37	85.105	
TN	P.15.1	257C	40	242.115	
TN	P.15.1	257C	43	64.329	
TN	P.15.1	257C	44	55.988	
TN	P.15.1	12C	00	0.823	
TN	P.15.1	812C	00	8.210	
TN	P.15.1	22C	00	4.587	
TN	P.15.1	45C	00	5.547	
TN	P.15.1	5C	00	10.205	
TN	P.15.1	822C	00	7.553	
TN	P.15.1	85C	00	13.908	
TN	P.15.1	845C	00	9.483	
	END				

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring 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.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
		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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

Maximum 10 entries per Cost Element #

000155

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 #	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 #

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 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 at 6/98.
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.)

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

Maximum of 25 entries per Cost Element #

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 200
PAGE: 1 of 1
DATE: NOVEMBER 1999

1 ELECTRONICS INVESTMENT

	FRC	257C	257C	257C	257C	257C	257C	257C	257C	257C	257C	257C	12C	812C	
	Sub FRC	03	06	09	15	19	22	25	37	40	43	44	00	00	Source
6	Design 1	$ 29.173		$ 70.661		$ 19.564			$ 50.685			$ 55.988	$ 0.235		WP 311, Lines 47 thru 53
7	Design 2	$ 12.060	$ 78.489	$ 52.614	$ 15.715	$ 112.702	$ 293.756	$ 52.614						$ 4.421	WP 321, Lines 47 thru 54
8	Design 3	$ 9.830	$ 36.331	$ 22.549	$ 2.055	$ 71.611	$ 141.752	$ 22.549						$ 1.895	WP 331, Lines 48 thru 55
9	Design 4	$ 81.788	$ 56.063	$ 214.233	$ 11.225	$ 48.910			$ 27.301	$ 206.343	$ 37.581		$ 0.588		WP 341, Lines 54 thru 62
10	Design 5	$ 5.582	$ 57.839	$ 22.549	$ 2.055	$ 48.301	$ 125.895	$ 22.549	$ 7.118	$ 35.771	$ 26.748			$ 1.895	WP 351, Lines 65 thru 75
	TOTAL	$ 138.433	$ 228.721	$ 382.604	$ 31.050	$ 301.087	$ 561.403	$ 97.711	$ 85.105	$ 242.115	$ 64.329	$ 55.988	$ 0.823	$ 8.210	

20 TRANSPORT INVESTMENT

	FRC	22C	45C	5C	822C	85C	845C	
	Sub FRC	00	00	00	00	00	00	
25	Design 1	$ 2.823	$ 3.413	$ 6.280				WP 311, Lines 44 thru 46
26	Design 2				$ 4.754	$ 8.753	$ 5.968	WP 322, Lines 37 thru 39
27	Design 3				$ 0.621	$ 1.144	$ 0.780	WP 332, Lines 39 thru 41
28	Design 4	$ 1.764	$ 2.133	$ 3.925	$ 0.849	$ 1.563	$ 1.066	WP 342, Lines 37 thru 42
29	Design 5				$ 1.329	$ 2.448	$ 1.669	WP 352, Lines 40 thru 42
30	TOTAL	$ 4.587	$ 5.547	$ 10.205	$ 7.553	$ 13.908	$ 9.483	

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

DESIGN #1
TRANSPORT MATERIAL

STATE: TENNESSEE
WORKPAPER 311
PAGE: 1 of 1
DATE: NOVEMBER 1999

DEVELOPMENT OF COPPER TRANSPORT UTILIZED MATERIAL

LINE NO.	FRC	Sub-FRC	Description	(A) Material Price Per Pair Per Foot	(B) = (A) * 2 Material Price (4 wire) 2 Pair Per Foot	(C)= (B) * 2640 Material Price 1/2 Mile (2640 * (B)	(D) Dist. to Dist. to Code	(E) =(C)*(D) Copper Cable Weighted Mat'l Price	(F) Route To Air Ratio	(G)=(E)*(F) Total Mat'l Price Per 1/2 Mile (Air Miles)	(H) Utilization	(I)=(G)/(H) Total Mat'l Price Per 1/2 Mile Utilized	Source
1	22C	00	Aerial Ca. - 26 Gauge Copper per pair foot	$0.004025	$0.008050	$21.252	0.239	$5.079	1.34	$ 6.806	0.651	$ 10.455	Input Sheet Line 61, 65, 83, 84
2	45C	00	Buried Ca. - 26 Gauge Copper per pair foot	$0.004867	$0.009734	$25.698	0.239	$6.142	1.34	$ 8.230	0.651	$ 12.642	Input Sheet Line 62, 66, 83, 84
3	5C	00	Underground Ca. - 26 Gauge Copper per pair foot	$0.004100	$0.008200	$21.648	0.522	$11.300	1.34	$ 15.142	0.651	$ 23.260	Input Sheet Line 63,67, 83, 84
4													
5													

LINE NO.	FRC	Sub-FRC	Description	(J) Material Price	(K) 4-Wire Capacity	(L) Route To Air Ratio	(M)=(J)/(K)*(L) Total Mat'l Price Per 1/2 Mile (Air Miles)	(N) Utilization	(O)=(M)/(N) Total Utilized Mat'l Per 1/2 Mile	Source
6										
7										
8										
9										
10										
11	257C	44	Line Repeater - Addressable Rptr.	[redacted]		1.34	$ 364.480	0.651	$ 559.877	Input Sheet Line 69, 83, 84
12	257C	37	Line Repeater - App. Case			1.34	$ 329.962	0.651	$ 506.853	Input Sheet line 70, 83, 84
13										
14										

LINE NO.	FRC	Sub-FRC	Description	(P) Material Price	(Q) 4-Wire Capacity	(R) =(P)/(Q) Total Mat'l Price	(S) Utilization	(T)=(R)/(S) Total Utilized Mat'l Price	Source
15									
16									
17									
18									
19	257C	03	C.O. Repeater - Shelf	[redacted]		$ 189.286	0.651	$ 290.761	Input Sheet Line 72, 84
20	257C	09	C.O. Repeater			$ 460.000	0.651	$ 706.605	Input Sheet line 73, 84
21									
22									
23									
24									
25									
26									
27									Input Sheet Line 75

LINE NO.	FRC	Sub-FRC	Description	(Z) Material Price	(AA) 4-Wire Capacity	(AB)=(Z)*(AA) Total Mat'l Price	(AC) Utilization	(AD) Avg. Distance	(AE)=(AB)/(AC) * (AD)) Total Utilized Mat'l	Source
28										
29										
30										
31										
32										
33	12C	00	Aerial Ca - Metal - Bldg. Entrance per pair foot	$ 0.0047	2	$ 0.009	1	250	$ 2.350	Input Sheet Line 79, 82
34	257C	03	DSX Panel per termination	$ 0.6300	1	$ 0.630	0.651		$ 0.968	Input Sheet Line 80, 84
35	257C	19	Network Interface	$ 195.639	1	$ 195.639	1		$ 195.639	Input Sheet Line 45
36										

37			
38	Design 1 Probability of Occurrence	10%	Input Sheet Line 89
39	State Average Air 1/2 miles	2.7	Input Sheet Line 85
40			

41 SUMMARY BY FRC

	FRC	Sub-FRC	Description	SOURCE	(AF) MATERIAL	(AG) WEIGHTED MATERIAL	SOURCE
42							
43							
44	22C	00	Aerial Ca - Metal	LINE 1, COL I	$ 10.455	$ 2.823	Col (AF) * Line 38 * Line 39
45	45C	00	Buried Ca - Metal	LINE 2, COL I	$ 12.642	$ 3.413	Col (AF) * Line 38 * Line 39
46	5C	00	Underground Ca - Metal	LINE 3, COL I	$ 23.260	$ 6.280	Col (AF) * Line 38 * Line 39
47	257C	03	Digt Circ - Pair Gain - C.O.- Hardwired	LINE 19 COL T + LINE 34, COL AE	$ 291.729	$ 29.173	Col (AF) * Line 38
48	257C	09	Digt Circ - Pair Gain - C.O. - Def. Plug-in	LINE 20, COL T	$ 706.605	$ 70.661	Col (AF) * Line 38
49	257C	19	Digt Circ - Pair Gain - Prem - Hardwired	LINE 35, COL AE	$ 195.639	$ 19.564	Col (AF) * Line 38
50	257C	37	Digt Circ - Pair Gain - Remote - Hardwired	LINE 12, COL O	$ 506.853	$ 50.685	Col (AF) * Line 38
51	257C	44	Digt Circ - Pair Gain - Remote - Def. Plug-in	LINE 11, COL O	$ 559.877	$ 55.988	Col (AF) * Line 38
52							
53	12C	00	Aerial Ca - Metal - Building Entrance	LINE 33, COL AE	$ 2.350	$ 0.235	Col (AF) * Line 38
54			TOTAL DESIGN 1		$ 2,309.411	$ 238.822	

000159

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 321
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #2

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC.	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE					
2						
3	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	03	INPUT SHEET LINE 12	$ 17.682
4	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	09	INPUT SHEET LINE 13	$ 150.325
5						
6	C.O. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	06	INPUT SHEET LINE 11	$ 73.973
7						
8	C.O. Node - OC- 3	OC - 3	257C	03	INPUT SHEET LINE 21	$ 16.774
9	C.O. Node - OC- 3	OC - 3	257C	06	INPUT SHEET LINE 22	$ 150.280
10						
11	Data Communications - OC- 3	OC - 3	257C	15	INPUT SHEET LINE43	$ 44.901
12						
13	POINT OF TERMINATION (CP)					
14						
15	C.P. Interface DS1 on OC- 3 - Working	OC - 3	257C	19	INPUT SHEET LINE 28	$ 17.682
16	C.P. Interface DS1 on OC- 3 - Working	OC - 3	257C	25	INPUT SHEET LINE 29	$ 150.325
17						
18	C.P. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	22	INPUT SHEET LINE 27	$ 73.973
19						
20	Battery Back-up - OC- 3 (CP)	OC - 3	257C	19	INPUT SHEET LINE 7	$ 17.161
21	Battery Back-up - OC- 3 (CP)	OC - 3	257C	22	INPUT SHEET LINE 8	$ 13.928
22						
23	C.P. Node - OC- 3	OC - 3	257C	19	INPUT SHEET LINE 37	$ 18.305
24	5 NODES	OC - 3	257C	19	LINE 23 * 5	$ 91.524
25						
26	C.P. Node - OC- 3	OC - 3	257C	22	INPUT SHEET LINE 38	$ 150.280
27	5 NODES	OC - 3	257C	22	LINE 26 * 5	$ 751.401
28	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
29	Fiber Building Entrance Cable - OC- 3	OC - 3	812C	00	INPUT SHEET LINE 48	$ 12.631
30						
31	SUMMARY BY FRC					
32						
33	Digtl Circ C.O. - Hardwired		257C	03	LINE 3 + LINE 8	$ 34.46
34	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 6 + LINE 9	$ 224.25
35	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4	$ 150.33
36	Digtl Circ C.O. - Combined		257C	15	LINE 11	$ 44.90
37	Digtl Circ Prem - Hardwired		257C	19	LINE 15, 20, 24, 28	$ 322.01
38	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 18, 21, 27	$ 839.30
39	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 16	$ 150.33
40	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 29	$ 12.63
41	TOTAL DESIGN 2 ELECTRONIC MATERIAL				SUM LINES 33 THRU 40	$ 1,778.20
42						
43	Design 2 Probability of Occurrence				INPUT SHEET LINE 90	35%
44						
45	TOTAL DESIGN 2 ELECTRONIC MATERIAL-WEIGHTED					
46						
47	Digtl Circ C.O. - Hardwired		257C	03	LINE 33 * LINE 43	$ 12.060
48	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 34 * LINE 43	$ 78.489
49	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 35 * LINE 43	$ 52.614
50	Digtl Circ C.O. - Combined		257C	15	LINE 36 * LINE 43	$ 15.715
51	Digtl Circ Prem - Hardwired		257C	19	LINE 37 * LINE 43	$ 112.702
52	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 38 * LINE 43	$ 293.756
53	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 39 * LINE 43	$ 52.614
54	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 40 * LINE 43	$ 4.421
55					SUM LINES 47 THRU 54	$ 622.37

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 322
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #2

TRANSPORT MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
	WEIGHTED MATERIAL PER MILE PER STRAND (ROUTE)					
1	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	INPUT SHEET LINE 5	$ 0.797
2	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	INPUT SHEET LINE 46	$ 1.468
3	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	INPUT SHEET LINE 9	$ 1.001
4						
5						
6						
7	WEIGHTED MATERIAL PER 1/2 MILE (ROUTE)					
8						
9	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	LINE 1 / 2	$ 0.399
10	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 2 / 2	$ 0.734
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 3 / 2	$ 0.500
12						
13						
14						
15						
16	Number of Strands per Ring				INPUT SHEET LINE 88	3
17						
18						
19						
20	Route to Air Ratio (RTA)				INPUT SHEET LINE 83	1.34
21						
22						
23	WEIGHTED MATERIAL PER 1/2 MILE (AIR MILES)					
24						
25	Aerial Fiber - Per Wgtd Fiber Mile - OC-3	OC - 3	822C	00	LINE 9 * LINE 16 * LINE 20	$ 1.602
26	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 10 * LINE 16 * LINE 20	$ 2.950
27	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 11 * LINE 16 * LINE 20	$ 2.011
28						
29	Design 2 Probability of Occurrence				INPUT SHEET LINE 90	35%
30						
31	State Average Air 1/2 miles				INPUT SHEET LINE 85	2.7
32	Ratio Of Circumference To The Diameter				INPUT SHEET LINE 86	3.14
33	Of A Circle					
34	STATE AVERAGE AIR 1/2 MILES - FIBER RING				LINE 31 * LINE 32	8.478
35						
36	TOTAL DESIGN 2 TRANSPORT MATERIAL-WEIGHTED					
37	Aerial Fiber - Per Wgtd Fiber Mile - OC-3	OC - 3	822C	00	LINE 25 * LINE 29 * LINE 34	$ 4.754
38	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 26 * LINE 29 * LINE 34	$ 8.753
39	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 27 * LINE 29 * LINE 34	$ 5.968

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 331
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #3

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE - ELECTRONICS (OC-3+)					
2						
3	C.O. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	03	INPUT SHEET LINE 15	$ 17.682
4	C.O. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	09	INPUT SHEET LINE 16	$ 150.325
5						
6	C.O. Interface DS1 on OC- 3+ - Mux & Protect	OC - 3+	257C	06	INPUT SHEET LINE 14	$ 69.988
7						
8	C.O. Node - OC- 3+	OC - 3+	257C	03	INPUT SHEET LINE 23	$ 47.854
9	C.O. Node - OC- 3+	OC - 3+	257C	06	INPUT SHEET LINE 24	$ 172.219
10						
11	Data Communications - OC-12	OC - 3+	257C	15	INPUT SHEET LINE 44	$ 13.698
12						
13	POINT OF TERMINATION (CP) (OC-3+)					
14						
15	C.P. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	19	INPUT SHEET LINE 31	$ 17.682
16	C.P. Interface DS1 on OC- 3+ - Working	OC - 3+	257C	25	INPUT SHEET LINE 32	$ 150.325
17						
18	C.P. Interface DS1 on OC- 3+ - Mux & Protect	OC - 3+	257C	22	INPUT SHEET LINE 30	$ 69.988
19						
20	Battery Back-up - OC- 3 (CP)	OC - 3+	257C	19	INPUT SHEET LINE 7	$ 17.161
21	Battery Back-up - OC- 3 (CP)	OC - 3+	257C	22	INPUT SHEET LINE 8	$ 13.928
22						
23	C.P. Node - OC- 3+	OC - 3+	257C	19	INPUT SHEET LINE 39	$ 49.385
24	5 NODES	OC - 3+	257C	19	LINE 23 * 5	$ 246.924
25						
26	C.P. Node - OC- 3+	OC - 3+	257C	22	INPUT SHEET LINE 40	$ 172.219
27	5 NODES	OC - 3+	257C	22	LINE 26 * 5	$ 861.097
28	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
29	Fiber Building Entrance Cable - OC- 3	OC - 3	812C	00	INPUT SHEET LINE 48	$ 12.631
30						
31						
32	SUMMARY BY FRC					
33						
34	Digtl Circ C.O. - Hardwired		257C	03	SUM LINES 3, 8	$ 65.54
35	Digtl Circ C.O. - Com. Plug-in		257C	06	SUM LINES 6, 9	$ 242.21
36	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4	$ 150.33
37	Digtl Circ C.O. - Combined		257C	15	LINE 11	$ 13.70
38	Digtl Circ Prem - Hardwired		257C	19	SUM LINES 15, 20, 24, 28	$ 477.41
39	Digtl Circ Prem - Com. Plug-in		257C	22	SUM LINES 18, 21, 27	$ 945.01
40	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 16	$ 150.33
41	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 29	$ 12.631
42	TOTAL DESIGN 3 ELECTRONIC MATERIAL				SUM LINES 34 THRU 41	$ 2,057.14
43						
44	Design 3 Probability of Occurrence				INPUT SHEET LINE 91	15%
45						
46	TOTAL DESIGN 3 ELECTRONIC MATERIAL-WEIGHTED					
47						
48	Digtl Circ C.O. - Hardwired		257C	03	LINE 34 * LINE 44	$ 9.830
49	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 35 * LINE 44	$ 36.331
50	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 36 * LINE 44	$ 22.549
51	Digtl Circ C.O. - Combined		257C	15	LINE 37 * LINE 44	$ 2.055
52	Digtl Circ Prem - Hardwired		257C	19	LINE 38 * LINE 44	$ 71.611
53	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 39 * LINE 44	$ 141.752
54	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 40 * LINE 44	$ 22.549
55	Aerial Ca - Fiber - Bdg. Entrance		812C	00	LINE 41 * LINE 44	$ 1.895
56					SUM LINES 48 THRU 55	$ 308.57

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 332
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #3

TRANSPORT MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
	WEIGHTED MATERIAL PER MILE PER STRAND (ROUTE)					
1	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	INPUT SHEET LINE 6	$ 0.243
2	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	INPUT SHEET LINE 47	$ 0.448
3	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	INPUT SHEET LINE 10	$ 0.305
4						
5						
6						
7	WEIGHTED MATERIAL PER 1/2 MILE (ROUTE)					
8						
9	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	LINE 1 / 2	$ 0.122
10	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	LINE 2 / 2	$ 0.224
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	LINE 3 / 2	$ 0.153
12						
13						
14						
15						
16	Number of Strands per Ring				INPUT SHEET LINE 88	3
17						
18						
19						
20	Route to Air Ratio (RTA)				INPUT SHEET LINE 83	1.34
21						
22						
23	WEIGHTED MATERIAL PER 1/2 MILE (AIR MILES)					
24						
25	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	LINE 9 * LINE 16 * LINE 20	$ 0.489
26	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	LINE 10 * LINE 16 * LINE 20	$ 0.900
27	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	LINE 11 * LINE 16 * LINE 20	$ 0.613
28						
29						
30						
31	Design 3 Probability of Occurrence				INPUT SHEET LINE 91	15%
32						
33	State Average Air 1/2 miles				INPUT SHEET LINE 85	2.7
34	Ratio Of Circumference To The Diameter				INPUT SHEET LINE 86	3.14
35	Of A Circle					
36	STATE AVERAGE AIR 1/2 MILES - FIBER RING				LINE 33 * LINE 34	8.478
37						
38	TOTAL DESIGN 3 TRANSPORT MATERIAL-WEIGHTED					
39	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	822C	00	LINE 25 * LINE 31 * LINE 36	$ 0.621
40	UG Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	85C	00	LINE 26 * LINE 31 * LINE 36	$ 1.144
41	Buried Fiber - Per Wgtd Fiber Mile - OC-12	OC - 12	845C	00	LINE 27 * LINE 31 * LINE 36	$ 0.780

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 341
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #4

ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE					
2						
3	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	03	INPUT SHEET LINE 12	$ 17.682
4	C.O. Interface DS1 on OC- 3 - Working	OC - 3	257C	09	INPUT SHEET LINE 13	$ 150.325
5						
6	C.O. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	06	INPUT SHEET LINE 11	$ 73.973
7						
8	C.O. Node - OC- 3	OC - 3	257C	03	INPUT SHEET LINE 21	$ 16.774
9	C.O. Node - OC- 3	OC - 3	257C	06	INPUT SHEET LINE 22	$ 150.280
10						
11	Data Communications - OC- 3	OC - 3	257C	15	INPUT SHEET LINE 43	$ 44.901
12						
13	POINT OF TERMINATION (CP)					
14	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
15	Aerial Ca - Metal - Building Entrance		12C	00	WP 311, LN 33, COL. AE	$ 2.350
16						
17	FIBER HUB					
18						
19	Hub Node - OC- 3	OC - 3	257C	37	INPUT SHEET LINE 56	$ 18.305
20	5 NODES	OC - 3	257C	37	LINE 19 * 5	$ 91.524
21						
22	Hub Node - OC- 3	OC - 3	257C	40	INPUT SHEET LINE 57	$ 150.280
23	5 NODES	OC - 3	257C	40	LINE 22 * 5	$ 751.401
24						
25	DSX Panel per termination		257C	03	WP 311, LN 34 COL. AE	$ 0.968
26	2 PANELS		257C	03	LINE 25 *2	$ 1.935
27						
28	C.O. Repeater - Shelf		257C	03	WP 311, LN 19 COL. T	$ 290.761
29	C.O. Repeater		257C	09	WP 311, LN 20 COL. T	$ 706.605
30						
31	Hub Interface DS1 on OC- 3 - Mux & Protect	0C - 3	257C	40	INPUT SHEET LINE 49	$ 73.973
32						
33	Hub Interface DS1 on OC- 3 - Working	0C - 3	257C	37	INPUT SHEET LINE 50	$ 17.682
34	Hub Interface DS1 on OC- 3 - Working	0C - 3	257C	43	INPUT SHEET LINE 51	$ 150.325
35						
36						
37	SUMMARY BY FRC					
38						
39	Digtl Circ C.O. - Hardwired		257C	03	LINES 3, 8, 26, 28	$ 327.153
40	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 6, 9	$ 224.253
41	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4, 29	$ 856.930
42	Digtl Circ C.O. - Combined		257C	15	LINE 11	$ 44.901
43	Digtl Circ Prem - Hardwired		257C	19	LINE 14	$ 195.639
44	Digtl Circ Remote - Hardwired		257C	37	LINE 20, 33	$ 109.205
45	Digtl Circ Remote - Com. Plug-in		257C	40	LINES 23, 31	$ 825.374
46	Digtl Circ Remote - Def. Plug-in		257C	43	LINE 34	$ 150.325
47	Aerial Ca - Metal - Building Entrance		12C	00	LINE 15	$ 2.350
48	TOTAL DESIGN 4 ELECTRONIC MATERIAL				SUM LINES 39 THRU 47	$ 2,736.131
49						
50	Design 4 Probability of Occurrence				INPUT SHEET LINE 92	25%
51						
52	TOTAL DESIGN 4 ELECTRONIC MATERIAL-WEIGHTED					
53						
54	Digtl Circ C.O. - Hardwired		257C	03	LINE 39 * LINE 50	$ 81.788
55	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 40 * LINE 50	$ 56.063
56	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 41 * LINE 50	$ 214.233
57	Digtl Circ C.O. - Combined		257C	15	LINE 42 * LINE 50	$ 11.225
58	Digtl Circ Prem - Hardwired		257C	19	LINE 43 * LINE 50	$ 48.910
59	Digtl Circ Remote - Hardwired		257C	37	LINE 44 * LINE 50	$ 27.301
60	Digtl Circ Remote - Com. Plug-in		257C	40	LINE 45 * LINE 50	$ 206.343
61	Digtl Circ Remote - Def. Plug-in		257C	43	LINE 46 * LINE 50	$ 37.581
62	Aerial Ca - Metal - Building Entrance		12C	00	LINE 47 * LINE 50	$ 0.588
63	TOTAL DESIGN 4 ELECTRONIC MATERIAL				SUM LINES 54 THRU 62	$ 684.033

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 342
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #4

TRANSPORT MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
	CO TO HUB TRANSPORT BY FRC					
	WEIGHTED MATERIAL PER 1/2 MILE					
1	Aerial fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	WP322, LINE 25	$ 1.602
2	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	WP322, LINE 26	$ 2.950
3	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	WP322, LINE 27	$ 2.011
4	Probability of Occurrence				50.00% INPUT SHEET LINE 96	
5	State Average Air 1/2 Miles				2.7 INPUT SHEET LINE 85	
6	Ratio Of Circumference To The Diameter				3.14 INPUT SHEET LINE 86	
7	Of A Circle					
8	Weighted 1/2 Mile Distance				4.2 LINE 4 * LINE 5 * LINE 6	
9						
10						
11	MATERIAL PER 1/2 MILE - WEIGHTED					
12	Aerial fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	822C	00	LINE 1 * LINE 8 * 1/2	$ 3.395
13	UG Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	85C	00	LINE 2 * LINE 8 * 1/2	$ 6.252
14	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	OC - 3	845C	00	LINE 3 * LINE 8 * 1/2	$ 4.263
15						
16			TOTAL		SUM LINES 12 THRU 14	$ 13.910
17						
18	HUB TO CP COPPER TRANSPORT BY FRC					
19	MATERIAL PER 1/2 MILE					
20	Aerial Ca. - 26 Gauge Copper per pair foot		22C	00	WP 311. LINE 1	$ 10.455
21	Underground Ca. - 26 Gauge Copper per pair foot		5C	00	WP 311. LINE 3	$ 23.260
22	Buried Ca. - 26 Gauge Copper per pair foot		45C	00	WP 311. LINE 2	$ 12.642
23	Probability of Occurrence - Copper				50.00% INPUT SHEET LINE97	
24	State Average Air 1/2 Miles				2.7 INPUT SHEET LINE 85	
25	Weighted 1/2 Mile Distance				1.35 LINE 23 * LINE 24	
26	Aerial Ca. - 26 Gauge Copper per pair foot		22C	00	LINE 20 * LINE 25 * 1/2	$ 7.057
27	Underground Ca. - 26 Gauge Copper per pair foot		5C	00	LINE 21 * LINE 25 * 1/2	$ 15.701
28	Buried Ca. - 26 Gauge Copper per pair foot		45C	00	LINE 22 * LINE 25 * 1/2	$ 8.533
29						
30			TOTAL		SUM LINES 26 THRU 28	$ 31.291
31						
32	Design 4 Probability of Occurrence				INPUT SHEET LINE 92	25%
33						
34						
35	TOTAL DESIGN 4 TRANSPORT MATERIAL-WEIGHTED					
36						
37	Aerial Ca - Fiber	OC - 3	822C	00	LINE 12 * LINE 32	$ 0.849
38	Aerial Ca - Metal - Bldg. Entrance	OC - 3	85C	00	LINE 13 * LINE 32	$ 1.563
39	Buried Ca - Fiber	OC - 3	845C	00	LINE 14 * LINE 32	$ 1.066
40	Aerial Ca. - Copper		22C	00	LINE 26 * LINE 32	$ 1.764
41	Underground Ca - Copper		5C	00	LINE 27 * LINE 32	$ 3.925
42	Buried Ca - Copper		45C	00	LINE 28 * LINE 32	$ 2.133
43						
44			TOTAL			$ 11.300

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 351
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #5
ELECTRONICS MATERIAL

LINE NO.	TYPE EQUIPMENT	TYPE SYSTEM	FRC	Sub-FRC	SOURCE	UTILIZED MATERIAL
1	CENTRAL OFFICE					
2						
3	C.O. Interface DS1 on OC-12 - Working	OC - 12	257C	03	INPUT SHEET LINE 19	$ 17.682
4	C.O. Interface DS1 on OC-12 - Working	OC - 12	257C	09	INPUT SHEET LINE 20	$ 150.325
5						
6	C.O. Interface DS1 on OC-12 - Mux & Protect	OC - 12	257C	03	INPUT SHEET LINE 17	$ 10.489
7	C.O. Interface DS1 on OC-12 - Mux & Protect	OC - 12	257C	06	INPUT SHEET LINE 18	$ 297.395
8						
9	C.O. Node - OC-12	OC - 12	257C	03	INPUT SHEET LINE 25	$ 9.043
10	C.O. Node - OC-12	OC - 12	257C	06	INPUT SHEET LINE 26	$ 88.195
11						
12	Data Communications - OC-12	OC - 12	257C	15	INPUT SHEET LINE 44	$ 13.698
13						
14	FIBER HUB					
15						
16	Hub Node - OC-12	OC - 12	257C	37	INPUT SHEET LINE 58	$ 9.510
17	Hub Node - OC-12	OC - 12	257C	40	INPUT SHEET LINE 59	$ 88.195
18						
19	Hub Interface STS-1 on OC-12	OC - 12	257C	37	INPUT SHEET LINE 54	$ 9.821
20	Hub Interface STS-1 on OC-12	OC - 12	257C	43	INPUT SHEET LINE 55	$ 55.669
21						
22	Hub Interface STS-1 on OC- 3	OC - 3	257C	37	INPUT SHEET LINE 52	$ 9.821
23	Hub Interface STS-1 on OC- 3	OC - 3	257C	43	INPUT SHEET LINE 53	$ 122.652
24						
25	Hub Node - OC- 3	OC - 3	257C	37	INPUT SHEET LINE 56	$ 18.305
26	Hub Node - OC- 3	OC - 3	257C	40	INPUT SHEET LINE 57	$ 150.280
27						
28	CUSTOMER PREMISES ELECTRONICS					
29						
30	C.P. Node - OC- 3	OC - 3	257C	19	INPUT SHEET LINE 37	$ 18.305
31	5 NODES	OC - 3	257C	19	LINE 30 * 5	$ 91.524
32						
33	C.P. Node - OC- 3	OC - 3	257C	22	INPUT SHEET LINE 38	$ 150.280
34	5 NODES	OC - 3	257C	22	LINE 33 * 5	$ 751.401
35						
36	Aerial Ca - Metal - Bldg. Entrance	OC - 3	257C	19	INPUT SHEET LINE 28	$ 17.682
37	C.P. Interface DS1 on OC- 3 - Working	OC - 3	257C	25	INPUT SHEET LINE 29	$ 150.325
38						
39	C.P. Interface DS1 on OC- 3 - Mux & Protect	OC - 3	257C	22	INPUT SHEET LINE 27	$ 73.973
40						
41	Battery Back-up - OC- 3 (CP)	OC - 3	257C	19	INPUT SHEET LINE 7	$ 17.161
42	Battery Back-up - OC- 3 (CP)	3.5	257C	22	INPUT SHEET LINE 8	$ 13.928
43						
44	Fiber Building Entrance Cable - OC- 3	OC - 3	812C	00	INPUT SHEET LINE 48	$ 12.631
45	Network Interface	OC - 3	257C	19	INPUT SHEET LINE 45	$ 195.639
46	SUMMARY BY FRC					
47						
48	Digtl Circ C.O. - Hardwired		257C	03	LINES 3, 6, 9	$ 37.214
49	Digtl Circ C.O. - Com. Plug-in		257C	06	LINES 7, 10	$ 385.590
50	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 4	$ 150.325
51	Digtl Circ C.O. - Combined		257C	15	LINE 12	$ 13.698
52	Digtl Circ C.O. - Def. Plug-in		257C	19	LINES 31, 36, 41, 45	$ 322.005
53	Digtl Circ Prem - Com. Plug-in		257C	22	LINES 34, 39, 42	$ 839.302
54	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 37	$ 150.325
55	Digtl Circ Remote - Com. Hardwired		257C	37	LINES 16, 19, 22, 25	$ 47.457
56	Digtl Circ Remote - Com. Plug-in		257C	40	LINES 17, 26	$ 238.476
57	Digtl Circ Remote - Def. Plug-in		257C	43	LINES 20, 23	$ 178.321
58	Aerial Ca - Metal - Building Entrance		812C	00	LINE 44	$ 12.631
59	TOTAL DESIGN 5 ELECTRONIC MATERIAL				SUM LINES 48 THRU 58	$ 2,375.343
60						
61	Design 5 Probability of Occurrence				INPUT SHEET LINE 93	15%
62						
63	TOTAL DESIGN 5 ELECTRONIC MATERIAL-WEIGHTED					
64						
65	Digtl Circ C.O. - Hardwired		257C	03	LINE 48 * LINE 61	$ 5.582
66	Digtl Circ C.O. - Com. Plug-in		257C	06	LINE 49 * LINE 61	$ 57.839
67	Digtl Circ C.O. - Def. Plug-in		257C	09	LINE 50 * LINE 61	$ 22.549
68	Digtl Circ C.O. - Combined		257C	15	LINE 51 * LINE 61	$ 2.055
69	Digtl Circ C.O. - Def. Plug-in		257C	19	LINE 52 * LINE 61	$ 48.301
70	Digtl Circ Prem - Com. Plug-in		257C	22	LINE 53 * LINE 61	$ 125.895
71	Digtl Circ Prem - Def. Plug-in		257C	25	LINE 54 * LINE 61	$ 22.549
72	Digtl Circ Remote - Com. Hardwired		257C	37	LINE 55 * LINE 61	$ 7.118
73	Digtl Circ Remote - Com. Plug-in		257C	40	LINE 56 * LINE 61	$ 35.771
74	Digtl Circ Remote - Def. Plug-in		257C	43	LINE 57 * LINE 61	$ 26.748
75	Aerial Ca - Metal - Building Entrance		812C	00	LINE 58 * LINE 61	$ 1.895
76	TOTAL DESIGN 5 ELECTRONIC MATERIAL-WEIGHTED				SUM LINES 65 THRU 75	$ 356.301

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1997-1999 LEVEL

STATE: TENNESSEE
WORKPAPER: 352
PAGE: 1 of 1
DATE: NOVEMBER 1999

DESIGN #5
TRANSPORT MATERIAL

Line No.		FRC	SUB-FRC	SOURCE	(A) PER MILE PER STRAND (ROUTE MILES)	(B) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(C)=(A)*(B)/2 PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(D) ROUTE TO AIR RATIO	(E) = (C)*(D) TOTAL MATERIAL PER 1/2 MILE PER ARRANGEMENT (AIR MILES)
	CENTRAL OFFICE TO FIBER HUB OC-12								
1	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	INPUT SHEET LINE 6	$ 0.243	3	$ 0.365	1.34	$ 0.489
2	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	INPUT SHEET LINE 10	$ 0.305	3	$ 0.458	1.34	$ 0.613
3	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	INPUT SHEET LINE 47	$ 0.448	3	$ 0.672	1.34	$ 0.900
4									
5	FIBER HUB TO CUSTOMER PREMISES OC-3								
6									
7	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	INPUT SHEET LINE 5	$ 0.797	3	$ 1.196	1.34	$ 1.602
8	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	INPUT SHEET LINE 9	$ 1.001	3	$ 1.501	1.34	$ 2.011
9	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	INPUT SHEET LINE 46	$ 1.468	3	$ 2.201	1.34	$ 2.950
10									

					(A) TOTAL INST PER 1/2 MILE	(B) PROBABILITY FROM NTWK	(C)=(A)*(B)
11	WEIGHTED TRANSPORT MATERIAL						
12							
13				SOURCES COLUMN (A)			
14	CO TO HUB OC-12						
15							
16	Aerial Fiber - OC-12	822C	00	Col (E) Ln 1	$ 0.489	50.00%	$ 0.244
17	Buried Fiber - OC-12	845C	00	Col (E) Ln 2	$ 0.613	50.00%	$ 0.307
18	UG- Fiber - OC-12	85C	00	Col (E) Ln 3	$ 0.900	50.00%	$ 0.450
19							
20							
21	HUB TO CUSTOMER PREMISES OC-3						
22							
23	Aerial Fiber - OC-3	822C	00	Col (E) Ln 7	$ 1.602	50.00%	$ 0.801
24	Buried Fiber - OC-3	845C	00	Col (E) Ln 8	$ 2.011	50.00%	$ 1.006
25	UG Fiber - OC- 3	85C	00	Col (E) Ln 9	$ 2.950	50.00%	$ 1.475
26							
27	TOTAL LOOP MATERIAL						
28							
29	AERIAL FIBER	822C	00	SUM LINE 16, 23	$ 1.045		
30	BURIED FIBER	845C	00	SUM LINE 17, 24	$ 1.312		
31	UNDERGROUND FIBER	85C	00	SUM LINE 18, 25	$ 1.925		
32							
33	Design 5 Probability of Occurrence			INPUT SHEET LINE 93		15%	
34	State Average Air 1/2 miles			INPUT SHEET LINE 85		2.7	
35	Ratio Of Circumference To The Diameter			INPUT SHEET LINE 86		3.14	
36	Of A Circle						
37							
38	TOTAL WEIGHTED TRANSPORT MATERIALS						
39							
40	AERIAL FIBER	822C	00	LINE 29 * 33 * 34 * 35	$ 1.329		
41	BURIED FIBER	845C	00	LINE 30 * 33 * 34 * 35	$ 1.669		
42	UNDERGROUND FIBER	85C	00	LINE 31 * 33 * 34 * 35	$ 2.448		

State: TN
Workpaper: Inputs
Cost Element: Exchange Port 4-Wire DID Trunk Port

LN		Description	Source	Value	Value	Value
1						
2						
3						
4	P.15.2	**SCIS Model Office**	SCIS/MO Version 2.3		FRC	Sub FRC
5		**5ESS**				
6		Investment Per Equivalent POTS Half Call (EPHC)	Model Office Output - MO2		377C	03
7						
8		**DMS**				
9		Investment per Millisecond	Model Office Output - MO1			
10						
11		**SCIS/IN Database**	SCIS/IN Version 2.3			
12		**5ESS**				
13		Average Realtime per EPHC	Assumption Table Item #3			
14		Realtime Required for DID Call (Switch Module)	Realtime Table Item #22			
15		Investment per Digital Trunk	Miscellaneous Equation #6			
16						
17		**DMS**				
18		Realtime Required for DID Call	Realtime Table Item #22			
19		Investment per Digital Trunk	Miscellaneous Equation #6			
20						
21		**User Inputs into SCIS/IN**	Network			
22		Busy Hour Calls per Trunk (DS0)		11.3		
23		Number of Trunks		24		
24						
25		**RTU Fees**				
26		**5ESS**	Contract PR-6700-B			
27		**DMS**				
28		NTX100AA List Price - per Office	Contract PR6900			
29		NTX100AA List Price - per Group of 100 Lines	Contract PR6900			
30		Number of Lines per Office w/ NTX100AA	Features Study	31,289		
31						
32		**Technology Distribution**	Demand & Facility Report - NALs			
33		5ESS		60.6%		
34		DMS		39.4%		
35						
36		Discount Rate	Study Assumption	9.93%		
37						
38		Economic Life of Digital Switching Equipment (Months)	Network	120		
39						
40		**Circuit Equipment**	DS1 Channelization Price Calculator			
41		DSX Material Price per Port @ DS0		$0.630	357C	03
42		Utilization Factor		85%		
43		Number of DS0s per DS1	Standard Configuration	24		
44						
45						
46						
47		DMS Discount for Software	Contract PR6900			
48						
49						
50						

State: TN
Workpaper: Inputs
Cost Element: 4-Wire DID Trunk Port

LN		Description		Source	Value	Value
71						
72		**Inputs - Page 2 of 2**				
73						
74	P.15.3	First Loop/Port Combo, worktimes in hours	JFC		Install	Disconnect
75		Service Order	2300	Product Team	5.7000	
76		Connect				
77		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.1667	
78		CO Installation & Maintenance - Circuit & Facility	431X	Product Team	0.3333	
79		Circuit Provisioning Group (CPG)	470X	Product Team	0.6917	
80		Address & Facility Inventory (AFIG)	400X	Product Team	0.0116	
81		Outside Plant Engineering	32XX	Product Team	0.5000	
82		Line & Number	2730	Product Team	0.0333	
83						
84						
85		Additional Loop/Port Combo, worktimes in hours				
86		Service Order	2300	Product Team	5.7000	
87		Connect				
88		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.1667	
89		CO Installation & Maintenance - Circuit & Facility	431X	Product Team	0.3333	
90		Circuit Provisioning Group (CPG)	470X	Product Team	0.6917	
91		Address & Facility Inventory (AFIG)	400X	Product Team	0.0116	
92		Outside Plant Engineering	32XX	Product Team	0.5000	
93		Line & Number	2730	Product Team	0.0333	
94						
95						
96		Location Life (months)		Product Team	62	
97						
98	P.15.6	Additional Telephone Numbers, worktimes in hours				
99		Connect				
100		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	2.0000	
101		Circuit Provisioning Group (CPG)	470X	Product Team	0.1667	
102		NISC Complex Translations Group	4N2X	Product Team	0.0833	
103		RCMAG/MARCH	4N2X	Product Team	0.0500	
104						
105						
106	P.15.5	Subsequent Channel Activation, worktimes in hours				
107		Connect				
108		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	2.1667	
109		Circuit Provisioning Group (CPG)	470X	Product Team	0.1667	
110		NISC Complex Translations Group	4N2X	Product Team	0.1666	
111		NISC Trunk Translations	4N4X	Product Team	0.3334	
112						
113	P.15.7	Subsequent Signaling Changes, worktimes in hours				
114		Connect				
115		Access Customer Advocate Center/BRMC (ACAC)	4AXX	Product Team	0.1667	
116		NISC Complex Translations Group	4N2X	Product Team	0.1667	
117		NISC Trunk Translations	4N4X	Product Team	0.2500	
118						
119	P.15.8	Subsequent Change Service Order, worktimes in hours				
120		Service Order	2300	Product Team	2.2500	

TELRIC INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments 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 #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	P.15.2	377C	03	1240.707	
TN	P.15.2	357C	03	17.788	
	END				

TELRIC INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring 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.

State	Cost Element #	Recurring Expense Description Limited to 25 characters	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN	P.15.2	RTU	1.071	0.027
	END			

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 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount

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.

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

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 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 6/98.
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.) Jun-98

					(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ PayBand	Installation Time (Hours)	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	P.15.3	62	Service Order	2300			5.7000		5.7000					
TN	P.15.3	62	Connect	4AXX			0.1667		0.1667					
TN	P.15.3	62	Connect	431X			0.3333		0.3333					
TN	P.15.3	62	Connect	470X			0.6917		0.6917					
TN	P.15.3	62	Connect	400X			0.0116		0.0116					
TN	P.15.3	62	Connect	32XX			0.5000		0.5000					
TN	P.15.3	62	Connect	2730			0.0333		0.0333					
TN	P.15.6	62	Connect	4AXX	2.0000									
TN	P.15.6	62	Connect	470X	0.1667									
TN	P.15.6	62	Connect	4N2X	0.0833									
TN	P.15.6	62	Connect	4N2X	0.0500									
TN	P.15.5	62	Connect	4AXX	2.1667									
TN	P.15.5	62	Connect	470X	0.1667									
TN	P.15.5	62	Connect	4N2X	0.1666									
TN	P.15.5	62	Connect	4N4X	0.3334									
TN	P.15.7	62	Connect	4AXX	0.1667									
TN	P.15.7	62	Connect	4N2X	0.1667									
TN	P.15.7	62	Connect	4N4X	0.2500									
TN	P.15.8	62	Service Order	2300	2.2500									
END														

State: TN
Workpaper: Development of Investments
Cost Element: Exchange Port 4-Wire DID Trunk Port

LN	Description	Source	Value
1	**5ESS Investment Development**		
2	Call Investment	LN9*LN12*LN13/LN16*LN17	[redacted]
3			
4	Hardware Investment	LN13*LN18	[redacted]
5			
6	Total Investment - 5ESS	LN5+LN9	[redacted]
7			
8	**Model Office Outputs**		
9	Investment Per Equivalent POTS Half Call (EPHC)	WP Inputs, LN6	[redacted]
10			
11	**User Inputs**		
12	Busy Hour Calls per Trunk (DS0)	WP Inputs, LN22	11.3
13	Number of Trunks	WP Inputs, LN23	24
14			
15	**SCIS/IN Database**		
16	Average Realtime per EPHC	WP Inputs, LN13	[redacted]
17	Realtime Required for DID Call (Switch Module)	WP Inputs, LN14	
18	Investment per Digital Trunk	WP Inputs, LN15	
19			
20	**DMS Investment Development**		
21	Getting Started Investment	LN28*LN31*LN35*LN36	[redacted]
22			
23	Hardware Investment	LN32*LN36	[redacted]
24			
25	Total Investment - DMS	LN21+LN23	[redacted]
26			
27	**Model Office Outputs**		
28	Investment per Millisecond	WP Inputs, LN9	[redacted]
29			
30	**SCIS/IN Database**		
31	Realtime Required for DID Call	WP Inputs, LN18	[redacted]
32	Investment per Digital Trunk	WP Inputs, LN19	
33			
34	**User Inputs**		
35	Busy Hour Calls per Trunk (DS0)	WP Inputs, LN22	11.3
36	Number of Trunks	WP Inputs, LN23	24
37			
38	**Technology Distribution**		
39	5ESS	WP Inputs, LN33	60.6%
40	DMS	WP Inputs, LN34	39.4%
41			
42	**Melded Investment - 377C 03**	LN6*LN39+LN25*LN40	$1,240.707
43			
44	**Circuit Equipment**		
45	DSX Material Price per Port @ DS0	WP Inputs, LN41	$0.630
46	Utilization Factor	WP Inputs, LN42	85%
47	Utilized Material Price per DS0	LN45/LN46	$0.741
48	Number of DS0s per DS1	WP Inputs, LN43	24
49	Material Price per DS1	LN47*LN48	$17.788
50			

State: TN
Workpaper: Development of Recurring Addt
Cost Element: Exchange Port 4-Wire DID Trunk Port

LN	Description	Source	Value
1			
2	**Development of Recurring Additive**		
3	Number of DS0s per DS1	WP Inputs, LN43	24
4	**Right to Use Fees**		
5	**5ESS**	WP Inputs, LN26	
6			
7	**DMS**		
8	NTX100AA List Price - per Office	WP Inputs, LN28	
9	DMS Discount for Software	WP Inputs, LN55	
10	Number of Lines per Office w/ NTX100AA	WP Inputs, LN30	31,289
11	RTU Fee per Line (DS0) (Volume Insensitive)	LN8*(1-LN9)/LN10	
12			
13	NTX100AA List Price - per Group of 100 Lines	WP Inputs, LN29	
14	DMS Discount for Software	WP Inputs, LN55	
15	Discounted RTU per Group of 100 Lines	LN13*(1-LN14)	
16	RTU per Line - DS0 (Volume Sensitive)	LN15/100	
17			
18	**Volume Sensitive RTU Fees**		
19	5ESS	LN5*LN3	
20	DMS	LN16*LN3	
21	Melded	LN19*LN29+LN20*LN30	
22			
23	**Volume Insensitive Expressed as a per Unit**		
24	5ESS	LN5*LN3	
25	DMS	LN11*LN3	
26	Melded	LN24*LN29+LN25*LN30	
27			
28	**Technology Distribution**		
29	5ESS	WP Inputs, LN33	60.6%
30	DMS	WP Inputs, LN34	39.4%
31			
32	**Conversion of Expense to Unit Recurring**		
33	**Volume Sensitive**		
34	Discount Rate	WP Inputs, LN36	9.93%
35	Monthly Discount Rate	((1+LN34)^(1/12))-1	0.792%
36	Economic Life of Digital Switch Equipment	WP Inputs, LN38	120
37	Unit Recurring	=PMT(LN35,LN36,LN21)	$1.071
38			
39	**Volume Insensitive**		
40	Cost of Money	WP Inputs, LN36	9.93%
41	Monthly Interest Rate	((1+LN44)^(1/12))-1	0.792%
42	Economic Life of Digital Switch Equipment	WP Inputs, LN38	120
43	Unit Recurring	=PMT(LN41,LN42,LN26)	$0.027
44			
45			

TENNESSEE DOCKET NO. 97-01262
APPENDIX A
UNBUNDLED NETWORK ELEMENT (UNE) STUDIES