

REC'D TN
REGULATORY AUTH.

Jim Lamoureux
Senior Attorney
Law and Government Affairs
Southern Region
jlamoureux@att.com

99 DEC 1 PM 4 22

OFFICE OF THE
EXECUTIVE SECRETARY

Promenade 1
1200 Peachtree Street N.E.
Atlanta, GA 30309
404 810 4196
FAX: 404 877 7648

December 1, 1999

BY HAND DELIVERY

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

RECEIVED
MELVIN MALONE

DEC 14 1999

TN REGULATORY AUTHORITY

Re: *Petition to Convene a Contested Case Proceeding to Establish Permanent Prices
for Interconnection and Unbundled Network Elements*
Docket No. 97-01262

Dear Mr. Waddell:

Pursuant to the TRA's Order Re Petitions For Reconsideration and Clarification of Interim Order on Phase I, dated November 3, 1999, enclosed is a CD ROM containing the revised Cost Study (HAI Model 4.0) for AT&T Communications of the South Central States, Inc. ("AT&T") and MCI WorldCom, Inc.

Changes have been made to reflect the TRA's clarification as to the recovery of OSS costs and network operations expenses. The recovery of OSS costs was accomplished by treating them as common costs, and loading those costs onto all UNEs in the HAI Model. This was accomplished by changing the common cost-loading factor in the HAI Model from 10.4% to 10.5%. The increase in the loading factor was calculated using work papers in EXCEL file F1.1.xls (in BellSouth's cost studies) to identify the amount of each of the components of OSS costs in BellSouth's cost studies (volume sensitive and insensitive recurring, and volume insensitive nonrecurring labor and additives) on an annual basis, instead of on a per-order basis as originally computed by BellSouth.

Network operations expenses were adjusted by reducing the specific 1996 BellSouth network expenses USOA accounts by 22.5%. The sum total of these accounts was incorporated into the HAI "95 Actuals" file so that 1996 normalized expenses would be reflected in the output of the HAI cost studies.

This cover letter is being served on all parties of record in this proceeding, as indicated on the attached certificate of service. Copies of the CD-ROM are also being served on the parties of record identified on the certificate of service. AT&T will provide a copy of the CD-ROM to any other party who requests a copy.

If you have any questions, please do not hesitate to call me.

Sincerely,


Jim Lamoureux 

Encls.

cc: Richard Collier, Esq.

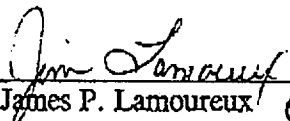
NASHVILLE, TENNESSEE

***In Re: Contested Case Proceeding to Establish Final Cost Based
Rates for Interconnection and Unbundled Network Elements***

Docket No: 97-01262

CERTIFICATE OF SERVICE

I, James P. Lamoureux, hereby certify that I have served a copy of the foregoing to the following counsel of record via U. S. First Class Mail, postage paid, this 1st day of December, 1999.


James P. Lamoureux

Guy M. Hicks, Esq.
BellSouth Telecommunications, Inc.
Suite 2101
333 Commerce Street
Nashville, TN 37201-3300
(Cover Letter & CD Rom)

Jon E. Hastings, Esq.
Boult, Cummings, Conners, & Berry PLC
Suite 1600, 414 Union Street
Nashville, TN 37219
(Cover Letter & CD Rom)

Henry Walker, Esq.
Boult, Cummings, Conners & Berry, PLC
Suite 1600, 414 Union Street
Nashville, TN 37219
(Cover Letter Only)

Charles B. Welch, Jr., Esq.
Farris, Mathews, Gilman, Branan
& Hellen, P.L.C.
511 Union Street, Suite 2400
Nashville, TN 37219
(Cover Letter Only)

L. Vincent Williams, Esq.
Consumer Advocate Division
Cordell Hull Building, Second Floor
426 Fifth Avenue North
Nashville, TN 37243-0500
(Cover Letter & CD Rom)

Jonathan E. Canis
Enrico C. Soriano
Intermedia Communications
Kelley Drye & Warren LLP
1200 19th Street, N.W. Ste. 500
Washington, D.C. 20036
(Cover Letter Only)

Benjamin W. Fincher, Esq.
Sprint Communications Co., L.P.
3100 Cumberland Circle
Atlanta, GA 30339
(Cover Letter Only)

Dana Shaffer, Esq.
105 Molloy Street, Suite 300
Nashville, TN 37201
(Cover Letter Only)

Dan H. Elrod, Esq. and
Kenneth M. Bryant, Esq.
Trabue, Sturdivant & DeWitt
2500 Nashville City Center
511 Union Street
Nashville, TN 37219-1738
(Cover Letter Only)

H. LaDon Baltimore, Esq.
Farrar & Bates, L.L.P.
211 Seventh Avenue North, Suite 320
Nashville, TN 37219-1823
(Cover Letter Only)

James Wright, Esq.
United Telephone-Southeast
14111 Capitol Blvd.
Wake Forest, NC 27587
(Cover Letter Only)

William C. Carriger, Esq.
Strang, Fletcher, Carriger, Walker,
Hodge & Smith
One Union Square, Suite #400
Chattanooga, TN 37402
(Cover Letter Only)

Density Zone Level Calculations

[illegible]

7

Orderly zone	level type	understanding cable	distribution cable	seal	distribution cable	distribution conduit	placement	distribution conduit	placement	distribution poles	calc. order level	III	calc. distribution III	calc. multipliers III	DLC per wire	SAI/IV	sample III	CRP IV	MD IV	total allocation
(km²)																				distance
0	DLC	5	4,207.841	1,344.661	1,409.806	0.00%	153.444	47,106.806	0.00%	5,392.523	0.00%	81.850	564.111	34.341	253,146.811	4,816.806	38,786.441	22,344.911	19,919.219	1,067,786
100	DLC	5	176,704.322	56,619.972	57,619.972	0.00%	25,353.226	9,724.055	0.00%	3,469.880	0.00%	6,648.500	5,222.556	3,862.638	19,868,776.000	12,964,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	67,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614	0.00%	36,799.269	16,610.608	0.00%	5,931.950	0.00%	12,871.760	5,843.710	3,776.437	31,444.732	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000	19,864,776.000
100	DLC	5	47,000.907	14,615.614	17,615.614															

7

[illegible]

□

4.158

7

[illegible]

Universal Service Calculation Sheet - monthly costs per line

Tennessee
South Central Bell

	0 - 5 lines/sq mi	5 - 100 lines/sq mi	100 - 200 lines/sq mi	200 - 650 lines/sq mi	650 - 850 lines/sq mi	850 - 2,550 lines/sq mi	2,550 - 5,000 lines/sq mi	5,000 - 10,000 lines/sq mi	> 10,000 lines/sq mi	Weighted Average
Local network costs										
Loop	80.26	39.00	23.35	15.51	12.70	10.79	9.05	7.29	4.66	17.40
Port	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
End office usage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Signaling	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Transport	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Local retail costs										
Billing/bill inquiries	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
Directory listing	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
LNP expense (when available)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Basic Local Service										
Avg monthly cost per line	85.40	44.14	28.48	20.64	17.83	15.93	14.19	12.43	9.80	22.54
@ Residence usage per line	85.32	44.05	28.40	20.56	17.75	15.85	14.10	12.34	9.71	24.18
@ Business usage per line	85.63	44.36	28.71	20.87	18.06	16.16	14.41	12.65	10.03	18.14
Total switched lines	6,972	469,268	128,905	369,536	131,658	705,290	374,158	110,741	87,266	2,363,814
Primary residence lines	6,361	398,455	102,769	288,006	90,967	480,398	222,388	54,451	20,232	1,644,028
Secondary residence lines	334	21,946	6,090	16,053	5,439	27,484	11,669	2,754	873	92,642
Single line business lines	42	4,928	1,899	6,259	2,110	12,172	6,573	2,164	1,655	37,833
Multiline business lines	230	43,136	17,818	77,812	32,562	181,991	131,225	50,492	63,409	598,674
Public lines	5	803	329	1,405	579	3,245	2,303	880	1,088	10,637
Annual Support for line types:										
Primary residence lines	X									\$ 66,549,170
Secondary residence lines		X								\$ 3,654,866
Single line business lines			X							\$ 17,270
Multiline business lines				X						\$ 95,524
Public lines					X					\$ 1,885
Support cost if all lines supported	\$ 4,478,821	\$ 65,839,892	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,318,714
Total annual support for specified lines	\$ 4,163,606	\$ 62,402,833	\$ 0	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,566,439
@ 25% Federal allocation	\$ 1,040,902	\$ 15,600,708	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,641,610
@ 75% State allocation	\$ 3,122,705	\$ 46,802,125	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,924,830

Annual Support for Primary Residence Lines at Pre-Selected Monthly Benchmark:

	\$20.00	\$4.986,040	\$114,998,907	\$10,357,822	\$1,792,776	\$-	\$-	\$-	\$-	\$132,135,544
	\$30.00	\$4,222,673	\$67,184,294	\$-	\$-	\$-	\$-	\$-	\$-	\$71,406,968
	\$40.00	\$3,459,307	\$19,369,662	\$-	\$-	\$-	\$-	\$-	\$-	\$22,828,989
	\$50.00	\$2,695,940	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$2,695,940
	\$60.00	\$1,932,574	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$1,932,574
	\$70.00	\$1,169,207	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$1,169,207
	\$80.00	\$405,841	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$405,841

Module release date:

7/8/1997

COST OF NETWORK ELEMENTS

Tennessee
South Central Bell

Loop elements	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
NID										
Annual Cost	\$ 44,872	\$ 3,001,498	\$ 826,016	\$ 2,364,096	\$ 845,449	\$ 4,590,424	\$ 2,394,141	\$ 693,392	\$ 506,640	\$ 15,266,528
Unit Cost/month	0.53	0.51	0.50	0.49	0.49	0.49	0.47	0.44	0.38	0.48
Loop Distribution (DLC)										
Annual Cost	\$ 2,534,436	\$ 105,018,459	\$ 23,567,715	\$ 40,026,085	\$ 10,392,080	\$ 35,204,073	\$ 12,969,440	\$ 2,213,141	\$ 486,417	\$ 232,411,845
Unit Cost/month	29.85	18.00	15.00	10.20	7.44	6.08	4.57	3.85	2.70	10.47
Loop Distribution (non-DLC)										
Annual Cost	\$ -	\$ 364,479	\$ 1,019,084	\$ 8,274,606	\$ 2,416,708	\$ 20,332,939	\$ 10,051,268	\$ 3,565,883	\$ 2,669,358	\$ 48,694,324
Unit Cost/month	-	18.11	15.38	9.22	7.03	5.70	4.40	3.58	2.29	5.21
Loop Distribution (all)										
Annual Cost	\$ 2,534,436	\$ 105,382,937	\$ 24,586,799	\$ 48,300,691	\$ 12,808,788	\$ 55,537,013	\$ 23,020,708	\$ 5,779,023	\$ 3,155,775	\$ 281,106,169
Unit Cost/month	29.85	18.00	15.01	10.02	7.36	5.93	4.49	3.68	2.34	8.91
Loop Concentration (DLC)										
Annual Cost	\$ 1,382,191	\$ 65,345,573	\$ 9,243,049	\$ 16,287,450	\$ 5,685,313	\$ 25,331,728	\$ 12,496,386	\$ 2,435,907	\$ 775,632	\$ 138,963,228
Unit Cost/month	16.04	11.20	5.88	4.15	4.07	4.37	4.40	4.23	4.31	6.26
Loop Concentration (non-DLC)										
Annual Cost	\$ -	\$ 2,391	\$ 9,061	\$ 109,937	\$ 43,208	\$ 438,871	\$ 264,916	\$ 106,118	\$ 95,140	\$ 1,069,842
Unit Cost/month	-	0.12	0.14	0.12	0.13	0.12	0.12	0.11	0.08	0.11
Loop Concentration (all)										
Annual Cost	\$ 1,382,191	\$ 65,347,964	\$ 9,252,110	\$ 16,397,387	\$ 5,728,521	\$ 25,770,598	\$ 12,761,302	\$ 2,542,025	\$ 870,772	\$ 140,032,870
Unit Cost/month	16.04	11.16	5.65	3.40	3.29	2.75	2.49	1.62	0.65	4.44
Loop Feeder (DLC)										
Annual Cost	\$ 2,884,355	\$ 54,846,190	\$ 3,470,534	\$ 5,404,445	\$ 1,900,487	\$ 8,061,663	\$ 4,096,708	\$ 774,849	\$ 243,878	\$ 81,683,109
Unit Cost/month	33.97	9.40	2.21	1.38	1.36	1.39	1.44	1.35	1.35	3.68
Loop Feeder (non-DLC)										
Annual Cost	\$ -	\$ 40,898	\$ 163,852	\$ 2,426,851	\$ 842,414	\$ 7,223,219	\$ 4,190,883	\$ 1,687,831	\$ 1,518,175	\$ 18,094,131
Unit Cost/month	-	2.03	2.47	2.70	2.45	2.03	1.83	1.69	1.30	1.94
Loop Feeder (all)										
Annual Cost	\$ 2,884,355	\$ 54,887,088	\$ 3,634,386	\$ 7,831,296	\$ 2,742,901	\$ 15,284,882	\$ 8,287,601	\$ 2,462,679	\$ 1,762,053	\$ 99,777,241
Unit Cost/month	33.97	9.38	2.22	1.62	1.58	1.63	1.62	1.57	1.31	3.16
Total Loop (DLC)										
Annual Cost	\$ 6,825,854	\$ 228,201,400	\$ 37,073,899	\$ 63,642,156	\$ 18,656,389	\$ 71,438,973	\$ 30,888,604	\$ 5,677,656	\$ 1,573,603	\$ 463,978,532
Unit Cost/month	80.39	39.12	23.59	16.21	13.36	12.33	10.88	9.87	8.74	20.90
Total Loop (non-DLC)										
Annual Cost	\$ -	\$ 418,088	\$ 1,225,411	\$ 11,251,315	\$ 3,469,270	\$ 29,743,943	\$ 15,575,148	\$ 5,799,465	\$ 4,721,637	\$ 72,204,276
Unit Cost/month	-	20.77	18.49	12.54	10.10	8.34	6.81	5.82	4.04	7.73
Total Loop (all)										
Annual Cost	\$ 6,825,854	\$ 228,619,488	\$ 38,299,310	\$ 74,893,470	\$ 22,125,659	\$ 101,182,916	\$ 46,463,751	\$ 11,477,121	\$ 6,295,240	\$ 536,182,808
Unit Cost/month	80.39	39.06	23.38	15.63	12.72	10.81	9.06	7.30	4.67	17.00
Total lines	7,076	487,769	136,495	401,897	145,004	780,027	427,199	131,010	112,342	2,628,819
Total lines served by DLC	7,076	486,092	130,973	327,110	116,372	482,843	236,618	47,945	15,006	1,850,036

	Annual Cost	Units	Unit Cost
End office switching			
Line Port	\$ 92,300,351	2,383,814 switched lines	\$ 1.94 per line/month
Non-Line Port	55,380,210	47,289,116,059 actual minutes	\$ 0.00078 per actual minute (for rate per DEM, see "Cost detail" sheet)
	36,920,140		
Signaling network elements	\$ 6,560,908		
Links	150,827	782 links	\$ 16.08 per link per month
STP	4,771,550	45,105,607,933 TCAP+ISUP msgs	\$ 0.00011 per signaling message
SCP	1,638,531	2,376,998,000 TCAP queries	\$ 0.00069 per query
Transport network elements			
<i>Dedicated</i>			
Sw+Sp Transport	\$ 7,585,607	313,060 trunks	\$ 2.02 per DS-0 equivalent per month
Switched	1,649,008	68,055 trunks	\$ 0.00020 per minute
Special	5,936,598	245,005 trunks	\$ 2.29 per DS-0 equivalent per month
Transmission Terminal	8,590,760	313,060 trunks	\$ 0.00023 per minute
			\$ 0.00043 total per minute
<i>Common</i>			
Transport	\$ 905,667	2,634,731,338 minutes	\$ 0.00035 per minute per leg (orig or term)
Transmission Terminal	610,926	2,634,731,338 minutes	\$ 0.00024 per minute
			\$ 0.00059 total per minute
<i>Direct</i>			
Transport	\$ 4,823,982	13,365,200,557 minutes	\$ 0.00036 per minute
Transmission Terminal	3,347,222	13,365,200,557 minutes	\$ 0.00025 per minute
			\$ 0.00061 total per minute
Tandem switch	\$ 3,092,455	2,184,872,097 minutes	\$ 0.00142 per minute
Operator systems	\$ 13,615,659		
Public Telephones	\$ 4,720,087		
Total (w/ Public)	\$ 682,336,430		
Total cost of switched network elements (w/o Public)	\$ 21.50 per line/month		

Network-Related Expenses

	0-5	5-100	100-200	200-500	500-850	850-2500	2500-5000	5000-10000	>10000	Totals
line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	
Network-Related Expenses										
ND										
Annual Capital Cost	\$ 28,894	\$ 1,904,827	\$ 513,803	\$ 1,439,285	\$ 507,173	\$ 2,711,248	\$ 1,400,121	\$ 400,257	\$ 287,029	\$ 9,192,636
Network Expenses	\$ 6,429	\$ 410,471	\$ 101,639	\$ 289,924	\$ 99,635	\$ 528,538	\$ 1,656,959	\$ 1,656,959	\$ 36,505	\$ 1,803,154
Direct expense	\$ 3,315	\$ 2,315,298	\$ 621,501	\$ 1,732,541	\$ 606,808	\$ 3,240,186	\$ 1,656,959	\$ 1,656,959	\$ 36,505	\$ 10,995,791
Investment	\$ 191,279	\$ 12,610,229	\$ 3,401,447	\$ 9,568,270	\$ 17,948,849	\$ 9,269,004	\$ 9,269,004	\$ 2,649,756	\$ 1,900,171	\$ 60,856,565
Support expenses	\$ 5,021	\$ 378,173	\$ 118,624	\$ 385,511	\$ 148,170	\$ 654,314	\$ 475,731	\$ 475,731	\$ 125,393	\$ 125,393
Subtotal, with misc. spl	\$ 40,344	\$ 2,694,472	\$ 740,125	\$ 2,113,820	\$ 724,978	\$ 4,094,501	\$ 2,132,680	\$ 2,132,680	\$ 448,928	\$ 13,656,471
Total, with var overhead	\$ 44,580	\$ 2,987,381	\$ 817,838	\$ 2,335,771	\$ 834,251	\$ 4,567,827	\$ 2,366,622	\$ 2,366,622	\$ 488,065	\$ 15,068,301
with carrier-to-carrier	\$ 44,652	\$ 2,986,789	\$ 821,968	\$ 2,332,510	\$ 841,306	\$ 4,567,927	\$ 2,362,407	\$ 2,362,407	\$ 504,157	\$ 15,197,170
Distribution (DLC)										
Annual Capital Cost	\$ 1,420,477	\$ 58,273,349	\$ 12,731,064	\$ 30,919,191	\$ 5,344,491	\$ 17,872,737	\$ 6,591,730	\$ 1,096,357	\$ 781,706	\$ 124,520,745
Network Expenses	\$ 564,589	\$ 22,775,882	\$ 5,001,477	\$ 18,312,468	\$ 7,124,262	\$ 6,976,892	\$ 2,784,280	\$ 78,915	\$ 78,915	\$ 48,555,459
Direct expense	\$ 1,995,066	\$ 61,009,231	\$ 17,732,541	\$ 74,458,016	\$ 7,458,753	\$ 29,261,689	\$ 8,676,010	\$ 1,933,123	\$ 310,621	\$ 173,086,314
Investment	\$ 9,508,863	\$ 386,704,821	\$ 84,009,384	\$ 128,726,434	\$ 35,407,474	\$ 118,470,430	\$ 43,827,489	\$ 7,768,722	\$ 1,537,531	\$ 825,879,171
Support expenses	\$ 283,608	\$ 13,266,779	\$ 3,384,551	\$ 6,527,022	\$ 1,821,276	\$ 6,551,757	\$ 2,577,109	\$ 472,751	\$ 120,388	\$ 35,007,241
Subtotal, with misc. spl	\$ 94,276,674	\$ 94,276,072	\$ 21,117,092	\$ 35,788,711	\$ 9,280,029	\$ 31,400,828	\$ 11,553,119	\$ 431,009	\$ 431,009	\$ 208,093,555
Total, with var overhead	\$ 2,517,935	\$ 104,174,991	\$ 23,334,387	\$ 39,546,528	\$ 10,254,432	\$ 34,697,915	\$ 12,766,196	\$ 2,174,732	\$ 472,265	\$ 229,943,379
with carrier-to-carrier	\$ 2,520,015	\$ 104,503,786	\$ 23,452,215	\$ 39,829,926	\$ 10,341,151	\$ 35,031,546	\$ 12,905,879	\$ 2,202,295	\$ 484,033	\$ 231,272,845
Distribution (non-DLC)										
Annual Capital Cost	\$ 202,099	\$ 79,053	\$ 550,446	\$ 1,715,614	\$ 1,243,603	\$ 10,327,244	\$ 5,113,087	\$ 1,764,206	\$ 1,248,115	\$ 24,782,466
Network Expenses	\$ 79,053	\$ 216,321	\$ 216,321	\$ 6,049,279	\$ 4,909,951	\$ 4,024,920	\$ 1,843,289	\$ 641,898	\$ 458,508	\$ 9,468,554
Direct expense	\$ 281,152	\$ 766,767	\$ 766,767	\$ 28,708,056	\$ 8,241,647	\$ 14,352,165	\$ 6,956,375	\$ 1,104,630	\$ 825,146	\$ 34,251,019
Investment	\$ 1,240,072	\$ 166,350	\$ 1,348,534	\$ 7,386,613	\$ 2,158,697	\$ 3,784,121	\$ 1,997,250	\$ 764,933	\$ 660,683	\$ 16,340,524
Support expenses	\$ 46,044	\$ 327,196	\$ 913,117	\$ 1,395,613	\$ 2,158,697	\$ 18,136,286	\$ 8,953,625	\$ 3,171,037	\$ 2,865,287	\$ 43,423,258
Subtotal, with misc. spl	\$ 382,055	\$ 581,551	\$ 1,008,995	\$ 8,234,924	\$ 2,404,604	\$ 20,430,256	\$ 8,953,726	\$ 3,520,326	\$ 2,813,942	\$ 47,982,700
Total, with var overhead	\$ 382,092	\$ 582,092	\$ 1,014,090	\$ 8,234,924	\$ 2,404,604	\$ 20,430,256	\$ 8,953,726	\$ 3,520,326	\$ 2,813,942	\$ 48,495,694
with carrier-to-carrier	\$ 382,092	\$ 582,092	\$ 1,014,090	\$ 8,234,924	\$ 2,404,604	\$ 20,430,256	\$ 8,953,726	\$ 3,520,326	\$ 2,813,942	\$ 48,495,694
Concentrator (all)										
Annual Capital Cost	\$ 1,430,477	\$ 58,475,448	\$ 13,281,510	\$ 25,282,856	\$ 6,588,094	\$ 28,159,624	\$ 11,704,817	\$ 2,860,554	\$ 1,478,822	\$ 148,303,311
Network Expenses	\$ 564,589	\$ 22,814,935	\$ 5,017,798	\$ 10,028,112	\$ 2,605,213	\$ 11,001,612	\$ 4,227,568	\$ 1,038,873	\$ 555,423	\$ 58,024,123
Direct expense	\$ 1,995,066	\$ 61,290,383	\$ 18,699,308	\$ 50,103,968	\$ 9,193,307	\$ 38,201,236	\$ 15,922,385	\$ 3,899,436	\$ 2,015,444	\$ 207,337,334
Investment	\$ 9,508,863	\$ 388,044,893	\$ 88,059,066	\$ 167,452,490	\$ 43,649,122	\$ 186,929,161	\$ 77,889,028	\$ 18,961,082	\$ 9,789,991	\$ 990,222,958
Support expenses	\$ 283,608	\$ 13,312,823	\$ 3,350,901	\$ 6,736,356	\$ 2,424,819	\$ 10,335,878	\$ 4,574,359	\$ 1,239,684	\$ 781,051	\$ 44,179,480
Subtotal, with misc. spl	\$ 2,278,674	\$ 94,630,206	\$ 22,030,209	\$ 43,187,924	\$ 11,438,126	\$ 49,537,114	\$ 20,506,744	\$ 5,138,150	\$ 2,796,295	\$ 251,516,813
Total, with var overhead	\$ 2,517,935	\$ 104,538,543	\$ 47,721,933	\$ 22,639,129	\$ 54,728,129	\$ 22,659,932	\$ 5,678,978	\$ 2,779,678	\$ 3,089,906	\$ 277,926,078
with carrier-to-carrier	\$ 2,520,015	\$ 104,866,478	\$ 48,063,304	\$ 24,466,304	\$ 55,264,838	\$ 22,907,889	\$ 5,750,702	\$ 3,140,308	\$ 3,140,308	\$ 279,728,529
Concentrator (DLC)										
Annual Capital Cost	\$ 987,853	\$ 46,432,990	\$ 6,403,645	\$ 10,959,870	\$ 3,755,929	\$ 16,458,430	\$ 7,961,085	\$ 1,513,017	\$ 459,013	\$ 94,928,829
Network Expenses	\$ 84,442	\$ 50,406,326	\$ 6,550,900	\$ 94,732	\$ 3,244,616	\$ 11,860,288	\$ 8,468,615	\$ 1,360,629	\$ 39,297	\$ 103,089,071
Direct expense	\$ 1,072,594	\$ 257,380,513	\$ 6,943,545	\$ 35,237,928	\$ 20,430,256	\$ 97,171,435	\$ 44,822,210	\$ 8,253,150	\$ 2,310,988	\$ 521,237,246
Investment	\$ 5,474,003	\$ 21,737,936	\$ 5,474,003	\$ 2,655,982	\$ 896,380	\$ 17,131,725	\$ 11,131,725	\$ 2,165,183	\$ 689,270	\$ 124,988,992
Support expenses	\$ 283,608	\$ 13,312,823	\$ 3,350,901	\$ 6,736,356	\$ 2,424,819	\$ 10,335,878	\$ 4,574,359	\$ 1,239,684	\$ 781,051	\$ 44,179,480
Subtotal, with misc. spl	\$ 2,278,674	\$ 94,630,206	\$ 22,030,209	\$ 43,187,924	\$ 11,438,126	\$ 49,537,114	\$ 20,506,744	\$ 5,138,150	\$ 2,796,295	\$ 251,516,813
Total, with var overhead	\$ 2,517,935	\$ 104,538,543	\$ 47,721,933	\$ 22,639,129	\$ 54,728,129	\$ 22,659,932	\$ 5,678,978	\$ 2,779,678	\$ 3,089,906	\$ 277,926,078
with carrier-to-carrier	\$ 2,520,015	\$ 104,866,478	\$ 48,063,304	\$ 24,466,304	\$ 55,264,838	\$ 22,907,889	\$ 5,750,702	\$ 3,140,308	\$ 3,140,308	\$ 279,728,529
Concentrator (non-DLC)										
Annual Capital Cost	\$ 1,594	\$ 1,594	\$ 5,891	\$ 69,447	\$ 26,797	\$ 287,675	\$ 158,426	\$ 61,872	\$ 52,498	\$ 644,198
Network Expenses	\$ 927	\$ 927	\$ 6,818	\$ 10,924	\$ 4,215	\$ 42,105	\$ 24,920	\$ 9,732	\$ 8,258	\$ 101,331
Direct expense	\$ 1,844	\$ 10,550	\$ 39,000	\$ 459,750	\$ 177,400	\$ 1,772,050	\$ 1,048,800	\$ 409,600	\$ 74,542	\$ 745,530
Investment	\$ 11,139,776	\$ 10,550	\$ 3,302	\$ 1,301	\$ 7,573	\$ 81,677	\$ 23,640	\$ 22,764	\$ 23,547	\$ 207,732
Support expenses	\$ 2,593,281	\$ 2,146	\$ 8,119	\$ 98,298	\$ 38,585	\$ 391,457	\$ 235,986	\$ 94,368	\$ 84,302	\$ 953,282
Subtotal, with misc. spl	\$ 2,593,281	\$ 2,146	\$ 8,119	\$ 98,298	\$ 38,585	\$ 391,457	\$ 235,986	\$ 94,368	\$ 84,302	\$ 953,282
Total, with var overhead	\$ 2,517,935	\$ 2,372	\$ 9,072	\$ 108,620	\$ 42,636	\$ 432,561	\$ 260,765	\$ 104,277	\$ 93,154	\$ 1,053,355
with carrier-to-carrier	\$ 2,517,935	\$ 2,372	\$ 9,072	\$ 108,620	\$ 42,636	\$ 432,561	\$ 260,765	\$ 104,277	\$ 93,154	\$ 1,053,355
Concentrator (all)										
Annual Capital Cost	\$ 987,853	\$ 46,434,583	\$ 6,409,536	\$ 11,029,317	\$ 3,782,726	\$ 16,726,105	\$ 8,119,510	\$ 1,574,888	\$ 508,511	\$ 95,573,029
Network Expenses	\$ 84,442	\$ 50,408,170	\$ 6,551,827	\$ 95,824	\$ 3,288,831	\$ 11,862,714	\$ 8,472,450	\$ 1,401,361	\$ 47,555	\$ 103,861,573
Direct expense	\$ 1,072,594	\$ 257,371,063	\$ 6,943,545	\$ 35,237,928	\$ 20,430,256	\$ 97,171,435	\$ 44,822,210	\$ 8,253,150	\$ 2,310,988	\$ 521,237,246
Investment	\$ 5,474,003	\$ 21,737,936	\$ 5,474,003	\$ 2,655,982	\$ 896,380	\$ 17,131,725	\$ 11,131,725	\$ 2,165,183	\$ 689,270	\$ 124,988,992
Support expenses	\$ 283,608	\$ 13,312,823	\$ 3,350,901	\$ 6,736,356	\$ 2,424,819	\$ 10,335,878	\$ 4,574,359	\$ 1,239,684	\$ 781,051	\$ 44,179,480
Subtotal, with misc. spl	\$ 2,278,674	\$ 94,630,206	\$ 22,030,209	\$ 43,187,924	\$ 11,438,126	\$ 49,537,114	\$ 20,506,744	\$ 5,138,150	\$ 2,796,295	\$ 251,516,813
Total, with var overhead	\$ 2,517,935	\$ 104,538,543	\$ 47,721,933	\$ 22,639,129	\$ 54,728,129	\$ 22,659,932	\$ 5,678,978	\$ 2,779,678	\$ 3,089,906	\$ 277,926,078
with carrier-to-carrier	\$ 2,520,015	\$ 104,866,478	\$ 48,063,304	\$ 24,466,304	\$ 55,264,838	\$ 22,907,889	\$ 5,750,702	\$ 3,140,308	\$ 3,140,308	\$ 279,728,529
Feeder (DLC)										
Annual Capital Cost	\$ 1,606,653	\$ 30,191,693	\$ 1,923,314	\$ 3,005,198	\$ 1,087,553	\$ 4,688,484	\$ 2,401,666	\$ 448,363	\$ 133,721	\$ 45,486,645
Network Expenses	\$ 663,893	\$ 12,115,609	\$ 2,671,258	\$ 945,806	\$ 276,492	\$ 1,001,904	\$ 433,632	\$ 74,471	\$ 22,017	\$ 16,221,729
Direct expense	\$ 2,270,516	\$ 42,307,303	\$ 2,671,258	\$ 9,351,004	\$ 1,364,045	\$ 5,690,988	\$ 16,586,532	\$ 522,874	\$ 155,258	\$ 61,708,374
Investment	\$ 11,139,776	\$ 7,928,735	\$ 20,817,442	\$ 20,817,442	\$ 32,401,506	\$ 32,401,506	\$ 814,042	\$ 166,216	\$ 60,890	\$ 315,150,108
Support expenses	\$ 322,765	\$ 6,928,913	\$ 498,402	\$ 881,299	\$ 333,072	\$ 7,190,727	\$ 3,849,329	\$ 688,051	\$ 218,097	\$ 11,505,108
Subtotal, with misc. spl	\$ 49,235,916	\$ 49,235,916	\$ 3,109,660	\$ 5,339,694	\$ 1,897,117	\$ 7,945,754	\$ 4,032,309	\$ 761,401	\$ 238,788	\$ 73,213,881
Total, with var overhead	\$ 2,865,576	\$ 54,405,687	\$ 3,493,175	\$ 5,337,959	\$ 1,897,117	\$ 8,022,154	\$ 4,076,631	\$ 771,051	\$ 242,883	\$ 80,900,997
with carrier-to-carrier	\$ 2,870,219	\$ 54,577,401	\$ 3,493,526	\$ 5,337,959	\$ 1,897,117	\$ 8,022,154	\$ 4,076,631	\$ 771,051	\$ 242,883	\$ 81,282,798
Feeder (non-DLC)										
Annual Capital Cost	\$ 22,140	\$ 22,140	\$ 87,115	\$ 1,301,050	\$ 463,660	\$ 4,079,666	\$ 2,392,278	\$ 960,805	\$ 830,056	\$ 10,136,770
Network Expenses	\$ 1,594	\$ 1,594	\$ 5,891	\$ 69,447	\$ 26,797	\$ 287,675	\$ 158,426	\$ 61,872	\$ 52,498	\$ 644,198
Direct expense	\$ 1,844	\$ 10,550	\$ 39,000	\$ 459,750	\$ 177,400	\$ 1,772,050	\$ 1,048,800	\$ 409,600	\$ 74,542	\$ 745,530
Investment	\$ 11,139,776	\$ 10,550	\$ 3,302	\$ 1,301	\$ 7,573	\$ 81,677	\$ 23,640	\$ 22,764	\$ 23,547	\$ 207,732
Support expenses	\$ 2,593,281	\$ 2,146	\$ 8,119	\$ 98,298	\$ 38,585	\$ 391,457	\$ 235,986	\$ 94,368	\$ 84,302	\$ 953,282

Network-Related Expenses												
	0.5	5-100	100-200	200-450	450-650	650-2550	2550-5000	5000-10000	>10000	Totals		
	line/wg	ml	line/wg	ml	line/wg	ml	line/wg	ml	line/wg	ml	line/wg	ml
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Feeder (all)	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
End Office Switching	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Signaling	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Dedicated Transport	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Dedicated Transport Transmission	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Direct Transport	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Direct Transport Transmission	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Common Transport	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	
Common Transport	\$		\$		\$		\$		\$		\$	
Annual Capital Cost	\$		\$		\$		\$		\$		\$	
Network Expenses	\$		\$		\$		\$		\$		\$	
Investment	\$		\$		\$		\$		\$		\$	
Support expenses	\$		\$		\$		\$		\$		\$	
Subtotal, with misc spri	\$		\$		\$		\$		\$		\$	
Total, with var overhead	\$		\$		\$		\$		\$		\$	
with carrier-to-carrier	\$		\$		\$		\$		\$		\$	

Network-Related Expenses		0.5	5-100	100-200	200-500	650-850	850-2550	2550-5000	5000-10000	>10000	Total
Support expenses		line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	line/mi	
Subtotal, with misc spl	\$	1,297	\$	68,295	\$	11,945	\$	4,541	\$	865	\$
Subtotal, with var overhead	\$	9,076	\$	543,043	\$	63,280	\$	20,040	\$	15,923	\$
Total, with var overhead	\$	10,028	\$	601,062	\$	69,925	\$	102,227	\$	17,595	\$
with carrier-to-carrier	\$	10,044	\$	601,908	\$	70,266	\$	102,933	\$	17,780	\$
Common Transport Transmission											
Annual Capital Cost	\$	1,928	\$	115,816	\$	22,374	\$	59,894	\$	14,673	\$
Network Expenses	\$	63	\$	128	\$	1,892	\$	1,650	\$	4,222	\$
Direct expenses	\$	2,028	\$	128	\$	1,892	\$	1,650	\$	4,222	\$
Investment	\$	10,650	\$	640,104	\$	107,625	\$	354,120	\$	276,600	\$
Support expenses	\$	349	\$	24,389	\$	5,686	\$	17,429	\$	5,938	\$
Subtotal, with misc spl	\$	2,440	\$	150,000	\$	29,864	\$	140,431	\$	21,862	\$
Total, with var overhead	\$	2,696	\$	165,750	\$	32,989	\$	81,052	\$	30,349	\$
with carrier-to-carrier	\$	2,701	\$	166,259	\$	33,150	\$	91,881	\$	30,293	\$
Tandem Switching											
Annual Capital Cost	\$	3,816	\$	256,000	\$	70,107	\$	200,708	\$	71,427	\$
Network Expenses	\$	2,488	\$	167,326	\$	46,926	\$	46,876	\$	46,876	\$
Direct expenses	\$	6,305	\$	423,326	\$	118,033	\$	335,201	\$	335,201	\$
Investment	\$	25,790	\$	1,730,173	\$	473,875	\$	1,356,718	\$	2,565,234	\$
Support expenses	\$	1,051	\$	82,184	\$	26,720	\$	89,148	\$	199,589	\$
Subtotal, with misc spl	\$	7,355	\$	505,521	\$	162,754	\$	421,468	\$	535,799	\$
Total, with var overhead	\$	8,128	\$	553,601	\$	157,743	\$	465,720	\$	582,575	\$
with carrier-to-carrier	\$	8,141	\$	560,319	\$	158,514	\$	468,598	\$	592,070	\$
Operator Systems											
Annual Capital Cost	\$	8,478	\$	523,902	\$	111,902	\$	292,413	\$	99,379	\$
Network Expenses	\$	23,809	\$	1,587,432	\$	425,663	\$	429,815	\$	429,815	\$
Direct expenses	\$	32,887	\$	2,111,334	\$	537,564	\$	529,293	\$	529,293	\$
Investment	\$	48,851	\$	2,985,285	\$	608,133	\$	1,555,498	\$	522,403	\$
Support expenses	\$	4,590	\$	345,771	\$	102,603	\$	335,358	\$	129,243	\$
Subtotal, with misc spl	\$	36,877	\$	2,457,105	\$	640,168	\$	1,898,820	\$	658,556	\$
Total, with var overhead	\$	2,715,101	\$	707,385	\$	707,385	\$	2,031,896	\$	727,882	\$
with carrier-to-carrier	\$	40,815	\$	2,723,670	\$	710,957	\$	2,046,457	\$	733,816	\$
Public Telephone											
Annual Capital Cost	\$	3,405	\$	221,575	\$	71,691	\$	241,864	\$	96,679	\$
Network Expenses	\$	3,405	\$	197,799	\$	69,989	\$	219,911	\$	86,305	\$
Direct expenses	\$	8,442	\$	1,854,342	\$	418,375	\$	1,430,288	\$	601,927	\$
Investment	\$	13,392	\$	1,430,288	\$	256,235	\$	1,100,515	\$	439,944	\$
Support expenses	\$	7,351	\$	68,680	\$	25,899	\$	102,110	\$	273,305	\$
Subtotal, with misc spl	\$	6,134	\$	488,055	\$	161,589	\$	559,885	\$	227,665	\$
Total, with var overhead	\$	6,134	\$	539,300	\$	178,555	\$	618,673	\$	251,570	\$
with carrier-to-carrier	\$	8,147	\$	541,002	\$	179,457	\$	623,106	\$	253,688	\$
Totals											
Annual Capital Cost	\$	4,401,121	\$	156,612,396	\$	26,475,848	\$	53,105,556	\$	18,134,489	\$
Network Expenses	\$	1,448,113	\$	46,488,103	\$	8,239,753	\$	17,024,104	\$	4,943,120	\$
Total	\$	5,847,234	\$	203,100,499	\$	34,715,601	\$	70,129,660	\$	23,077,609	\$
Investment	\$	28,585,409	\$	995,006,133	\$	168,408,974	\$	338,410,513	\$	102,258,404	\$
Supporting Network Expenses											
Capital Cost - Carrier Support	\$	351,176	\$	12,223,787	\$	2,068,927	\$	4,157,420	\$	1,256,259	\$
Network Operations	\$	126,711	\$	8,734,528	\$	2,444,222	\$	2,596,602	\$	2,596,602	\$
Network Support	\$	10,629	\$	336,117	\$	53,750	\$	96,276	\$	27,355	\$
Other Taxes	\$	96,537	\$	3,427,249	\$	599,454	\$	1,243,702	\$	1,799,037	\$
Misc Expenses	\$	245,650	\$	8,529,829	\$	1,459,698	\$	2,948,763	\$	4,188,517	\$
Subtotal	\$	831,213	\$	33,261,511	\$	6,628,051	\$	15,642,507	\$	5,146,725	\$
Carrier-carrier customer svc	\$	11,958	\$	824,330	\$	238,676	\$	698,206	\$	2,181,817	\$
Interoffice/switching Nat Oys	\$	10,978	\$	736,065	\$	205,676	\$	608,480	\$	1,177,294	\$
Interoffice/CW Exp	\$	435,304	\$	24,217,088	\$	5,225,633	\$	13,416,592	\$	22,902,811	\$
Total Network Costs	\$	6,689,125	\$	237,098,075	\$	41,541,628	\$	86,379,046	\$	26,443,152	\$
Other costs	\$		\$		\$		\$		\$		\$
Operating taxes and uncollectibles	\$	96,537	\$	3,427,249	\$	599,454	\$	1,243,702	\$	1,799,037	\$
Annual Cost Factors											
Loop	0.02156	0.02193	0.02261	0.02327	0.02340	0.02351	0.02340	0.02344	0.02344	0.02346	0.02327
Port	0.01968	0.01944	0.01913	0.01874	0.01848	0.01822	0.01802	0.01782	0.01762	0.01742	0.01716
Switching	0.00041	0.00041	0.00041	0.00041	0.00041	0.00041	0.00041	0.00041	0.00041	0.00041	0.00041
Support	0.00027	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
Blended/Blended (per line)	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
Director Listing (per line)	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
LNP Expenses (per line)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Inverse Carrier to Carrier Expense Factors	99.8416%	99.6934%	99.5138%	99.3137%	99.1928%	99.0845%	98.9802%	98.7981%	98.4572%	99.5532%	

COST SUMMARY

Tennessee
South Central Bell

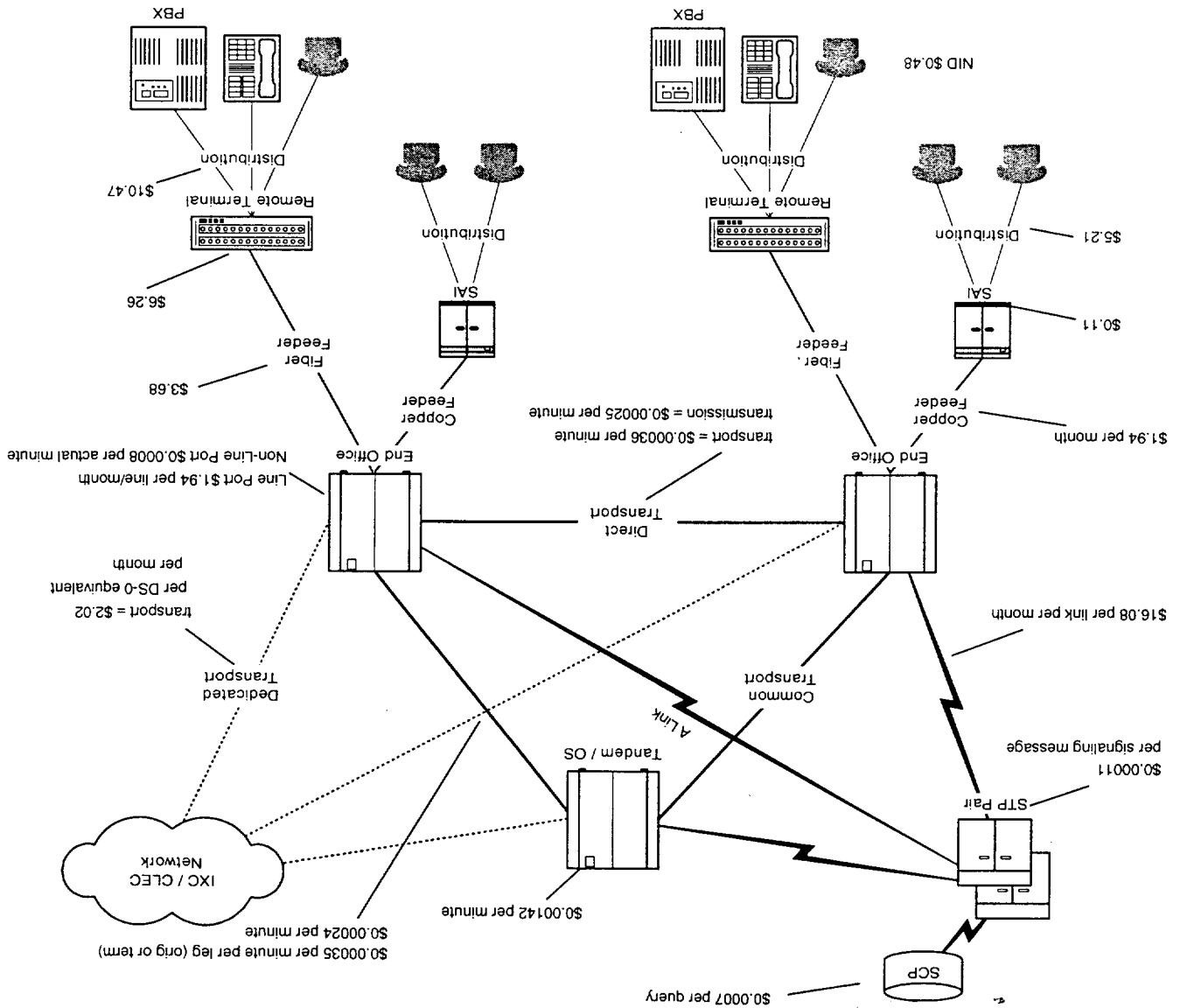
Network Element	Investment *	% of total investment	1	2	1 + 2	3	1 + 2 + 3	Total
			Annual Capital Cost	Network Expenses	Direct Expense	Support Expense	Subtotal (with misc support)	(with carrier-to-carrier)
NID	\$ 60,856,565	2.5%	\$ 9,192,636	\$ 1,803,154	\$ 10,995,791	\$ 2,640,680	\$ 13,636,471	\$ 15,191,710
<i>Distribution (DLC)</i>	825,879,171	33.9%	124,520,745	48,565,569	173,086,314	35,007,241	208,093,555	231,272,845
<i>Distribution (non-DLC)</i>	164,343,524	6.7%	24,782,466	9,468,554	34,251,019	9,172,238	43,423,258	48,455,684
Distribution (all)	990,222,695	40.7%	149,303,211	58,034,123	207,337,334	44,179,480	251,516,813	279,728,529
<i>Concentrator (DLC)</i>	526,717,296	21.6%	94,928,829	8,160,242	103,089,071	21,299,221	124,388,292	138,282,200
<i>Concentrator (non-DLC)</i>	4,264,692	0.2%	644,199	101,331	745,530	207,732	953,262	1,064,400
Concentrator (all)	530,981,988	21.8%	95,573,029	8,261,573	103,834,602	21,506,953	125,341,555	139,346,600
<i>Feeder (DLC)</i>	315,129,851	12.9%	45,486,645	16,221,729	61,708,374	11,505,108	73,213,481	81,282,798
<i>Feeder (non-DLC)</i>	68,483,329	2.8%	10,136,770	2,504,281	12,641,051	3,486,946	16,127,997	18,005,456
Feeder (all)	383,613,180	15.8%	55,623,415	18,726,009	74,349,424	14,992,054	89,341,478	99,288,254
End Office Switching	319,836,001	13.1%	48,895,445	15,318,812	64,214,257	18,259,995	82,474,252	91,848,007
Signaling	24,360,506	1.0%	3,739,366	815,748	4,555,134	1,306,605	5,861,740	6,528,754
Dedicated Transport	30,425,127	1.2%	4,394,718	1,128,431	5,523,149	1,273,696	6,796,845	7,548,431
Dedicated Transport Transmission	30,248,544	1.2%	5,472,174	462,803	5,934,977	1,737,894	7,672,871	8,548,658
Direct Transport	19,616,242	0.8%	2,834,241	710,232	3,544,473	780,318	4,324,791	4,800,341
Direct Transport Transmission	11,951,139	0.5%	2,162,045	182,852	2,344,897	647,223	2,992,120	3,330,818
Common Transport	3,686,009	0.2%	532,582	133,251	665,832	146,144	811,977	901,229
Common Transport Transmission	2,182,644	0.1%	394,856	33,394	428,250	117,884	546,134	607,932
Tandem Switching	8,748,692	0.4%	1,294,228	848,908	2,143,136	619,473	2,762,609	3,077,299
Operator Systems	10,545,980	0.4%	1,963,600	7,837,443	9,801,043	2,360,334	12,161,377	13,548,931
Public Telephone	8,084,120	0.3%	1,776,515	1,585,884	3,362,399	869,760	4,232,159	4,720,087
Total	\$ 2,435,359,434	100%	\$ 383,152,081	\$ 115,882,617	\$ 499,034,698	\$ 111,438,492	\$ 610,473,190	\$ 679,015,579

Total Network Cost

* Post sharing

Unbundled Network Elements

Tennessee / SOUTH CENTRAL BELL



General Support

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-650 lines/sq mi	650-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
General Support Investment										
furniture	22,524	784,020	132,639	266,652	80,575	377,034	179,951	46,402	29,096	1,918,553
office equipment	58,790	2,046,370	346,357	685,989	210,369	984,097	469,691	121,113	75,943	5,008,658
general purpose computers	929,690	32,380,824	5,477,206	11,006,206	3,325,775	15,562,291	7,427,580	1,915,260	1,200,949	79,205,780
motor vehicles	207,860	7,235,238	1,224,594	2,460,769	743,577	3,479,419	1,860,659	428,214	288,508	17,708,841
buildings	485,736	16,907,588	2,961,680	5,750,422	1,737,620	8,130,844	3,880,694	1,000,669	627,461	41,382,713
garage work equipment	3,815	132,784	22,474	45,161	13,646	63,856	30,477	7,859	4,928	324,599
other work equipment	178,511	4,473,227	757,112	1,521,385	459,721	2,151,171	1,026,712	284,746	166,007	10,948,591
TOTAL	1,836,926	63,940,049	10,822,122	21,746,584	6,571,223	30,748,712	14,675,764	3,784,262	2,372,692	156,498,534
	1.17%	40.86%	6.92%	13.80%	4.20%	19.65%	9.38%	2.42%	1.52%	100.00%
Levelized Cost of Capital										
furniture	3,387	117,903	19,956	40,100	12,117	56,699	27,062	6,976	4,376	298,577
office equipment	9,201	320,279	54,209	108,930	32,916	154,022	73,512	18,956	11,886	783,008
general purpose computers	209,833	7,363,890	1,236,214	2,484,119	750,633	3,512,434	1,676,417	432,277	271,056	17,876,872
motor vehicles	40,279	1,400,305	237,008	476,256	143,912	673,406	321,403	82,876	51,967	3,427,892
buildings	69,103	2,405,333	407,113	818,075	247,200	1,156,723	552,081	142,359	89,285	5,867,732
garage work equipment	560	19,490	3,299	6,629	2,003	9,973	4,473	1,154	723	47,704
other work equipment	18,863	656,597	111,130	223,311	67,478	315,752	150,702	38,060	24,567	1,607,050
TOTAL	351,176	12,223,787	2,068,927	4,157,420	1,256,259	5,678,408	2,805,650	723,459	453,639	29,918,725

Distribution

	0.5 line/mi	5.100 line/mi	100-200 line/mi	200-650 line/mi	650-850 line/mi	850-2550 line/mi	2550-5000 line/mi	5000-10000 line/mi	>10000 line/mi	Totals
Distribution Investment										
buried cable	4,207,841	176,704,232	45,600,902	67,107,471	16,222,952	45,762,296	12,009,057	978,464	26,333	369,540,489
aerial cable	1,346,667	56,635,972	14,615,674	27,654,178	6,665,283	18,664,476	3,727,747	1,612,654	437,075	133,605,925
underground cable	2,338,944	76,747,062	12,676,613	18,399,635	5,195,224	25,080,853	5,261,291	1,592,859	114,452	148,909,484
conduit	704,903	15,544,797	2,431,014	4,167,652	1,186,824	3,561,896	2,015,388	578,026	252,487	2,466,811
underground trenching	564,311	38,765,844	5,222,556	12,971,790	4,579,236	18,999,882	1,183,074	1,725,617	439,689	28,780,160
poles	344,197	22,306,913	3,662,836	8,543,710	1,537,957	6,206,087	9,310,901	589,556	174,433	42,489,826
terminal	51,592	3,389,552	583,467	1,290,563	232,315	502,917	502,917	86,034	26,356	46,874,919
drop	9,528,863	386,704,821	64,408,264	138,744,434	35,407,424	118,470,430	43,827,499	7,268,723	1,537,531	825,678,171
TOTAL	15%	46.82%	10.22%	10.60%	4.29%	14.34%	5.31%	0.88%	0.19%	100.00%
Levelized Cost of Capital										
buried cable	631,325	26,511,879	6,841,747	10,068,492	2,434,016	6,866,102	1,939,815	146,804	3,951	55,444,131
aerial cable	208,772	8,767,176	2,262,488	4,280,831	1,034,872	2,915,288	888,186	249,668	70	20,642,027
underground cable	350,924	11,514,771	1,901,940	2,760,595	779,467	3,763,014	1,176,915	140,034	19,681	25,052,377
conduit	102,222	2,264,230	352,534	604,372	172,107	516,529	290,647	9,524	87,899	22,603,829
underground trenching	62,462	3,625,574	788,689	1,844,337	691,713	2,870,011	171,564	262,172	417,557	4,173,557
poles	51,592	3,389,552	583,467	1,290,563	232,315	502,917	502,917	86,034	26,356	13,970,972
terminal	51,592	3,389,552	583,467	1,290,563	232,315	502,917	502,917	86,034	26,356	7,080,651
drop	1,430,477	58,273,349	12,731,064	20,349,191	5,344,491	17,872,379	6,591,730	1,096,357	231,706	124,520,745
TOTAL										
Network Expenses										
buried cable	228,917	9,613,157	2,480,804	3,650,816	882,570	2,486,636	703,373	53,231	1,403	20,103,937
aerial cable	107,013	4,493,925	1,159,718	2,194,291	530,461	1,496,374	455,276	127,976	36,268	10,601,302
underground cable	127,244	4,175,234	689,640	1,000,987	282,633	1,364,462	426,747	86,555	3,194	8,159,846
conduit	53,330	1,154,012	180,773	309,307	88,107	264,427	4,307	1,237	141	1,302
underground trenching	30,448	2,038,912	282,157	682,419	247,401	1,026,489	503,008	93,770	23,755	2,136,576
poles	1,205,167	208,653	461,588	461,588	63,091	335,264	179,875	30,771	8,427	4,996,912
terminal	18,596	22,735,982	5,001,477	8,312,498	2,114,262	6,976,692	2,384,280	386,975	78,915	2,532,493
drop	564,589	22,735,982	5,001,477	8,312,498	2,114,262	6,976,692	2,384,280	386,975	78,915	48,505,569
TOTAL										
Summary										
Cost of Capital	1,430,477	58,273,349	12,731,064	20,349,191	5,344,491	17,872,379	6,591,730	1,096,357	231,706	124,520,745
Network Expenses	564,589	22,735,982	5,001,477	8,312,498	2,114,262	6,976,692	2,384,280	386,975	78,915	48,505,569
TOTAL	1,995,066	81,009,331	17,732,541	29,261,689	7,458,753	24,849,071	8,978,010	1,483,332	310,621	173,026,314
Customer / meter	0.5 line/mi	5.100 line/mi	100-200 line/mi	200-650 line/mi	650-850 line/mi	850-2550 line/mi	2550-5000 line/mi	5000-10000 line/mi	>10000 line/mi	Totals
Distribution Investment										
buried cable	677,523	1,974,066	13,736,618	3,602,037	25,800,809	9,628,653	1,570,324	2,388,446	144,889	56,738,119
aerial cable	217,155	632,713	5,495,859	1,484,356	10,633,438	4,420,139	2,388,446	2,388,446	2,388,446	21,723,501
underground cable	196,803	550,848	4,070,701	1,329,853	14,454,280	7,121,139	6,303,180	99,877	2,992,491	29,632,406
conduit	40,871	107,458	935,662	308,908	2,075,331	1,619,458	928,695	869,554	87,297	3,208,630
underground trenching	133,753	220,168	2,942,855	1,126,192	11,684,192	7,499,378	3,006,920	3,150,005	797,618	4,396,825
poles	73,966	164,418	1,926,359	389,817	3,797,680	2,630,557	949,032	1,138,406	1,138,406	28,727,257
terminal	51,592	3,389,552	583,467	1,290,563	232,315	502,917	502,917	86,034	26,356	11,071,237
drop	1,340,072	3,945,671	28,708,056	8,241,647	68,458,731	34,001,529	11,682,358	8,251,460	154,343,524	154,343,524
Levelized Cost of Capital	0.00%	0.82%	2.22%	17.47%	5.01%	41.66%	20.69%	7.11%	5.02%	100.00%
buried cable	101,652	296,180	1,974,066	13,736,618	3,602,037	25,800,809	9,628,653	1,570,324	2,388,446	56,738,119
aerial cable	33,615	97,943	850,752	223,778	1,546,043	681,480	401,888	31,765	4,291,563	8,512,723
underground cable	29,527	82,647	610,749	199,525	2,168,653	1,044,688	31,987	40,801	176,678	176,678
conduit	5,927	15,563	135,885	44,796	300,954	134,675	125,401	50,288	4,446,058	4,446,058
underground trenching	33,257	20,204	170,189	44,796	300,954	134,675	125,401	50,288	4,446,058	4,446,058
poles	11,173	24,836	290,985	58,883	573,655	1,132,812	454,209	143,355	172,112	4,497,480
terminal	51,592	3,389,552	583,467	1,290,563	232,315	502,917	502,917	86,034	26,356	11,071,237
drop	202,098	550,446	4,333,665	1,243,603	10,327,244	5,113,087	1,764,206	1,248,115	24,782,466	24,782,466
Network Expenses										
buried cable	36,659	107,394	725,546	195,960	1,403,782	523,834	85,430	7,882	3,086,697	3,086,697
aerial cable	17,231	50,204	436,083	117,780	1,403,782	643,737	205,387	190,305	2,189,752	2,189,752

Distribution

	0-5 lineal/mi	5-100 lineal/mi	100-200 lineal/mi	200-650 lineal/mi	650-850 lineal/mi	850-2550 lineal/mi	2550-5000 lineal/mi	5000-10000 lineal/mi	>10000 lineal/mi	Totals
underground cable										
buried trenching										
conduit										
underground trenching										
poles										
terminal										
drop										
TOTAL										
Summary										
Cost of Capital										
Network Expenses										
TOTAL										
NID Cost										
NID Investment										
Levelized Cost of Capital										
Network Expenses										
TOTAL										
New Exp using E I										

Concentrator

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
Concentrator Investment										
DLC Investment	\$ 5,392,503	\$ 253,146,913	\$ 34,689,080	\$ 59,031,950	\$ 20,232,440	\$ 88,680,540	\$ 42,924,820	\$ 8,160,770	\$ 2,465,160	\$ 514,724,176
SAI Investment	\$ 81,500	\$ 4,216,600	\$ 848,350	\$ 1,857,450	\$ 633,800	\$ 2,750,650	\$ 1,295,450	\$ 242,800	\$ 66,520	\$ 11,993,120
TOTAL	\$ 5,474,003	\$ 257,363,513	\$ 35,537,430	\$ 60,889,400	\$ 20,866,240	\$ 91,431,190	\$ 44,220,270	\$ 8,403,570	\$ 2,531,680	\$ 526,717,296
	1.04%	48.86%	6.75%	11.56%	3.96%	17.36%	8.40%	1.60%	0.48%	100.00%
Levelized Cost of Capital										
DLC	\$ 975,542	\$ 45,796,055	\$ 6,275,498	\$ 10,679,294	\$ 3,660,191	\$ 16,042,933	\$ 7,765,401	\$ 1,476,341	\$ 445,965	\$ 93,117,219
SAI	\$ 12,311	\$ 636,935	\$ 128,147	\$ 280,576	\$ 95,738	\$ 415,497	\$ 195,683	\$ 38,676	\$ 10,048	\$ 1,811,610
TOTAL	\$ 987,853	\$ 46,432,990	\$ 6,403,645	\$ 10,959,870	\$ 3,755,929	\$ 16,458,430	\$ 7,961,085	\$ 1,515,017	\$ 456,013	\$ 94,928,829
Network Expenses										
DLC	\$ 82,505	\$ 3,873,148	\$ 530,743	\$ 903,189	\$ 309,556	\$ 1,356,812	\$ 656,750	\$ 124,860	\$ 37,717	\$ 7,875,280
SAI	\$ 1,936	\$ 100,168	\$ 20,157	\$ 44,134	\$ 15,059	\$ 65,357	\$ 30,780	\$ 5,769	\$ 1,581	\$ 284,962
TOTAL	\$ 84,442	\$ 3,973,316	\$ 550,900	\$ 947,323	\$ 324,616	\$ 1,422,169	\$ 687,530	\$ 130,629	\$ 39,297	\$ 8,160,242
Summary										
Cost of Capital	\$ 987,853	\$ 46,432,990	\$ 6,403,645	\$ 10,959,870	\$ 3,755,929	\$ 16,458,430	\$ 7,961,085	\$ 1,515,017	\$ 456,013	\$ 94,928,829
Network Expense	\$ 84,442	\$ 3,973,316	\$ 550,900	\$ 947,323	\$ 324,616	\$ 1,422,169	\$ 687,530	\$ 130,629	\$ 39,297	\$ 8,160,242
TOTAL	\$ 1,072,294	\$ 50,406,306	\$ 6,954,545	\$ 11,907,193	\$ 4,080,544	\$ 17,880,599	\$ 8,648,615	\$ 1,645,645	\$ 495,310	\$ 103,089,071
Copper Feeder										
Concentrator Investment										
DLC Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SAI Investment	\$ -	\$ 10,550	\$ 39,000	\$ 459,750	\$ 177,400	\$ 1,772,050	\$ 1,048,800	\$ 409,600	\$ 347,542	\$ 4,264,692
TOTAL	\$ 0.00%	\$ 10,550	\$ 39,000	\$ 459,750	\$ 177,400	\$ 1,772,050	\$ 1,048,800	\$ 409,600	\$ 347,542	\$ 4,264,692
		0.25%	0.91%	10.78%	4.16%	41.55%	24.59%	9.60%	8.15%	100.00%
Levelized Cost of Capital										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SAI	\$ -	\$ 1,594	\$ 5,891	\$ 69,447	\$ 26,797	\$ 267,675	\$ 158,426	\$ 61,872	\$ 52,498	\$ 644,199
TOTAL	\$ -	\$ 1,594	\$ 5,891	\$ 69,447	\$ 26,797	\$ 267,675	\$ 158,426	\$ 61,872	\$ 52,498	\$ 644,199
Network Expenses										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SAI	\$ -	\$ 251	\$ 927	\$ 10,924	\$ 4,215	\$ 42,105	\$ 24,920	\$ 9,732	\$ 8,258	\$ 101,331
TOTAL	\$ -	\$ 251	\$ 927	\$ 10,924	\$ 4,215	\$ 42,105	\$ 24,920	\$ 9,732	\$ 8,258	\$ 101,331
Summary										
Cost of Capital	\$ -	\$ 1,594	\$ 5,891	\$ 69,447	\$ 26,797	\$ 267,675	\$ 158,426	\$ 61,872	\$ 52,498	\$ 644,199
Network Expense	\$ -	\$ 251	\$ 927	\$ 10,924	\$ 4,215	\$ 42,105	\$ 24,920	\$ 9,732	\$ 8,258	\$ 101,331
TOTAL	\$ -	\$ 1,844	\$ 6,818	\$ 80,371	\$ 31,012	\$ 309,780	\$ 183,346	\$ 71,604	\$ 60,755	\$ 745,530
Concentrator Investment										
DLC Investment	\$ 5,392,503	\$ 253,146,913	\$ 34,689,080	\$ 59,031,950	\$ 20,232,440	\$ 88,680,540	\$ 42,924,820	\$ 8,160,770	\$ 2,465,160	\$ 514,724,176
SAI Investment	\$ 81,500	\$ 4,227,150	\$ 887,350	\$ 2,317,200	\$ 811,200	\$ 4,522,700	\$ 2,344,250	\$ 652,400	\$ 414,062	\$ 16,257,812
TOTAL	\$ 5,474,003	\$ 257,374,063	\$ 35,576,430	\$ 61,349,150	\$ 21,043,640	\$ 93,203,240	\$ 45,269,070	\$ 8,813,170	\$ 2,879,222	\$ 530,981,988
	1.03%	48.47%	6.70%	11.55%	3.96%	17.55%	8.53%	1.66%	0.54%	100.00%
Levelized Cost of Capital										
DLC	\$ 975,542	\$ 45,796,055	\$ 6,275,498	\$ 10,679,294	\$ 3,660,191	\$ 16,042,933	\$ 7,765,401	\$ 1,476,341	\$ 445,965	\$ 93,117,219

Concentrator

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
SAI	12,311	638,529	134,038	350,023	122,535	683,173	354,109	98,546	62,546	2,455,810
TOTAL	\$ 987,853	\$ 46,434,583	\$ 6,408,536	\$ 11,029,317	\$ 3,782,726	\$ 16,726,105	\$ 8,119,510	\$ 1,574,888	\$ 508,511	\$ 95,573,029
Network Expenses										
D/C	\$ 82,505	\$ 3,873,148	\$ 530,743	\$ 903,189	\$ 309,556	\$ 1,356,812	\$ 656,750	\$ 124,860	\$ 37,717	\$ 7,875,280
SAI	1,936	100,439	21,084	55,058	19,274	107,461	55,700	15,501	9,838	386,293
TOTAL	\$ 84,442	\$ 3,973,587	\$ 551,827	\$ 958,247	\$ 328,831	\$ 1,464,274	\$ 712,450	\$ 140,361	\$ 47,555	\$ 8,261,573
Summary										
Cost of Capital	\$ 987,853	\$ 46,434,583	\$ 6,408,536	\$ 11,029,317	\$ 3,782,726	\$ 16,726,105	\$ 8,119,510	\$ 1,574,888	\$ 508,511	\$ 95,573,029
Network Expense	\$ 84,442	\$ 3,973,587	\$ 551,827	\$ 958,247	\$ 328,831	\$ 1,464,274	\$ 712,450	\$ 140,361	\$ 47,555	\$ 8,261,573
TOTAL	\$ 1,072,294	\$ 50,408,170	\$ 6,961,363	\$ 11,987,564	\$ 4,111,556	\$ 18,190,379	\$ 8,831,960	\$ 1,715,249	\$ 556,066	\$ 103,834,602

Feeder

	0-500	500-1000	>10000	TOTAL
	lineal/mi	lineal/mi	lineal/mi	lineal/mi
Flow Fraction				
Flow < 10000	11,139.76	13,308.55	2,000.42	26,448.73
Feeder Treatment				
Copper viny cables				
Copper barrel cables	\$	\$	\$	\$
Copper barrel cables				
Alum viny cables	501.565	8,665.594	391.541	945.598
Alum barrel cables	6,150.461	4,940.880	6,160.960	17,252.301
Steel viny cables	5,700.159	69,864.159	2,816.793	78,381.101
Steel barrel cables	1,965.261	2,241.750	852.400	5,059.411
miscables	27.694	2,331.503	381.636	3,040.833
Cable viny placement				
Alum viny placement	218.109	10,308.872	5,016.245	15,543.226
Alum barrel placement				
Steel viny placement	329.532	12,419.732	1,794.402	14,543.666
Steel barrel placement	159.028	5,041.089	1,617.217	6,817.334
TOTAL	\$	\$	\$	\$
	11,139.76	13,308.55	2,000.42	26,448.73

Levelized Cost of Capital Component Weights

[illegible]copper w/g cable
copper burned cable

Other assets	11 924	206 992	8 303	22 468	29 832	176 816	84 910	15 364	4 464	5 371 026
Other liabilities	23 349	2 349	2 687 147	3 589 186	54 367	142 899	30 612	2 186	509	5 971 026
Other assets	270 747	4 613 711	2 782 938	1 785	110	136 825	63 300	6 036	832	5 876 625
Other liabilities	419	4 089	2 059	901	2 455	4 465	408	147	147	10 625
Other assets	59									20 857
Other liabilities										16 252
Other assets	5 182	244 943	1 067	50 297	57 051	286 833	184 099	40 944	12 632	1 000 272
Other liabilities	18 992									21 502
Other assets	14 892	374 585	119 186	170 471	38 368	124 095	5 303	2 050	1 189 618	
Other liabilities			42 087	42 087	19 146	3 569	1 142			
Other assets	163 184	12 115 437	687 944	345 306	276 402	1 001 604	433 622	74 471	22 017	16 250 730

Network Expenses

[illegible]

their wing placement

Item	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604																																																																																																																																																																																																																											
Net assets independent of the company	\$ 2,821	\$ 12,598	\$ 90,296	\$ 222,721	\$ 130,049	\$ 60,795	\$ 54,546	\$ 583,385	\$ 2,113,562	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$ 106,585	\$ 162,425	\$

End Office Switching

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
EO Switching Investment										
end office switching	\$ 904,276	\$ 55,951,045	\$ 14,112,448	\$ 39,250,452	\$ 13,327,993	\$ 69,567,503	\$ 35,576,346	\$ 10,477,121	\$ 8,263,420	\$ 247,430,604
MDF/protector	15,088	1,181,559	395,003	1,254,977	505,603	2,851,742	1,747,499	643,132	750,802	9,345,397
wire center	263,913	13,454,483	2,938,383	7,523,577	2,617,810	13,607,684	8,192,699	2,312,572	1,878,880	52,770,000
land	44,208	2,353,343	563,255	1,461,713	522,419	2,795,563	1,681,931	463,397	404,172	10,290,000
TOTAL	\$ 1,227,486	\$ 72,920,429	\$ 18,009,088	\$ 49,480,718	\$ 16,973,825	\$ 88,822,492	\$ 47,198,475	\$ 13,896,214	\$ 11,297,273	\$ 319,838,001
	0.36%	22.80%	5.63%	15.47%	5.31%	27.77%	14.76%	4.34%	3.53%	100.00%
Levelized Cost of Capital										
end office switching	\$ 139,355	\$ 8,692,445	\$ 2,174,826	\$ 6,048,767	\$ 2,053,936	\$ 10,720,836	\$ 5,482,582	\$ 1,614,597	\$ 1,273,450	\$ 38,130,776
MDF/protector	2,730	213,752	71,460	227,004	91,467	515,900	316,135	116,346	136,825	1,690,648
wire center	37,545	1,911,237	418,025	1,070,331	372,419	1,935,877	1,165,522	328,995	267,296	7,507,248
land	6,731	358,324	85,762	222,563	79,544	425,657	256,094	70,558	61,540	1,566,773
TOTAL	\$ 186,361	\$ 11,105,759	\$ 2,750,072	\$ 7,568,695	\$ 2,597,367	\$ 13,598,271	\$ 7,220,313	\$ 2,130,495	\$ 1,738,112	\$ 48,895,445
Network Expenses										
end office switching	\$ 24,925	\$ 1,505,083	\$ 379,625	\$ 1,055,637	\$ 356,523	\$ 1,871,366	\$ 951,004	\$ 281,835	\$ 222,286	\$ 6,655,883
MDF/protector	231	18,078	6,044	19,201	7,736	43,632	26,737	9,840	11,487	142,985
wire center	42,610	2,169,055	474,415	1,214,714	422,657	2,197,019	1,322,747	373,375	303,353	8,519,944
land										
TOTAL	\$ 67,166	\$ 3,692,216	\$ 860,083	\$ 2,289,552	\$ 786,915	\$ 4,112,017	\$ 2,306,487	\$ 665,049	\$ 537,126	\$ 15,318,812
Summary										
Cost of Capital	\$ 186,361	\$ 11,105,759	\$ 2,750,072	\$ 7,568,695	\$ 2,597,367	\$ 13,598,271	\$ 7,220,313	\$ 2,130,495	\$ 1,738,112	\$ 48,895,445
Network Expense	\$ 67,166	\$ 3,692,216	\$ 860,083	\$ 2,289,552	\$ 786,915	\$ 4,112,017	\$ 2,306,487	\$ 665,049	\$ 537,126	\$ 15,318,812
TOTAL	\$ 253,527	\$ 14,797,975	\$ 3,610,155	\$ 9,858,448	\$ 3,386,282	\$ 17,710,287	\$ 9,526,800	\$ 2,795,544	\$ 2,275,238	\$ 64,214,257

Signaling

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
Signaling Investment										
SCP	\$ 14,575	\$ 981,097	\$ 269,501	\$ 772,587	\$ 275,257	\$ 1,474,546	\$ 782,250	\$ 231,526	\$ 182,489	\$ 4,983,828
SCP wire center	3,217	216,542	59,483	170,521	60,753	323,453	172,653	51,101	40,278	1,100,000
STP	53,112	3,535,869	960,092	2,744,852	975,298	5,218,387	2,765,742	818,351	644,957	17,716,661
signaling links	7,293	457,085	34,855	34,528	6,752	16,905	2,109	327	163	560,017
TOTAL	\$ 78,197	\$ 5,190,593	\$ 1,323,931	\$ 3,722,488	\$ 1,318,061	\$ 7,035,291	\$ 3,722,754	\$ 1,101,304	\$ 867,887	\$ 24,380,506
	0.32%	21.31%	5.43%	15.28%	5.41%	28.88%	15.28%	4.52%	3.56%	100.00%
Levelized Cost of Capital										
SCP	\$ 2,246	\$ 151,194	\$ 41,532	\$ 119,061	\$ 42,419	\$ 227,238	\$ 120,550	\$ 35,680	\$ 28,123	\$ 788,043
SCP wire center	458	30,806	8,462	24,259	8,643	46,300	24,562	7,270	5,730	156,490
STP	8,185	544,902	147,957	423,001	150,300	804,190	426,220	126,114	99,392	2,730,261
signaling links	1,102	69,045	5,285	5,216	1,020	2,354	319	49	25	84,583
TOTAL	\$ 11,990	\$ 795,946	\$ 203,216	\$ 571,536	\$ 202,392	\$ 1,080,281	\$ 571,651	\$ 169,112	\$ 133,270	\$ 3,739,386
Network Expenses										
SCP	\$ 392	\$ 26,392	\$ 7,250	\$ 20,783	\$ 7,404	\$ 39,665	\$ 21,043	\$ 6,228	\$ 4,909	\$ 134,065
SCP wire center	519	34,982	9,604	27,531	9,809	52,546	27,876	8,250	6,503	177,600
STP	1,429	95,115	25,826	73,837	26,236	140,375	74,398	22,014	17,349	476,578
signaling links	358	22,450	1,712	1,696	332	830	104	16	8	27,506
TOTAL	\$ 2,698	\$ 178,918	\$ 44,392	\$ 123,846	\$ 43,780	\$ 233,416	\$ 123,420	\$ 36,508	\$ 28,769	\$ 815,748
Summary										
Cost of Capital	\$ 11,990	\$ 795,946	\$ 203,216	\$ 571,536	\$ 202,392	\$ 1,080,281	\$ 571,651	\$ 169,112	\$ 133,270	\$ 3,739,386
Network Expense	\$ 2,698	\$ 178,918	\$ 44,392	\$ 123,846	\$ 43,780	\$ 233,416	\$ 123,420	\$ 36,508	\$ 28,769	\$ 815,748
TOTAL	\$ 14,689	\$ 974,864	\$ 247,608	\$ 695,383	\$ 246,163	\$ 1,313,697	\$ 695,071	\$ 205,621	\$ 162,039	\$ 4,555,134

Dedicated Transport

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
Dedicated Transport Investment										
buried cable	195,391 \$	8,461,932 \$	1,200,927 \$	1,637,887 \$	352,747 \$	868,570 \$	178,252 \$	36,507 \$	26,481 \$	12,956,604
aerial cable	128,280	5,350,089	891,157	1,627,786	436,127	1,578,870	567,666	138,479	113,594	10,832,067
poles	26,240	1,056,954	157,241	261,564	61,114	190,171	50,447	10,809	7,922	1,822,962
conduct	16,766	641,373	106,595	138,855	37,231	89,005	20,888	4,397	3,207	1,056,317
manholes	52,482	2,087,176	306,777	535,296	123,882	387,915	104,804	22,235	16,286	3,628,523
TOTAL	1,605	89,632	11,842	11,516	2,447	7,043	1,814	383	280	128,563
TOTAL	420,764 \$	17,687,156 \$	2,674,540 \$	4,202,863 \$	1,013,248 \$	3,121,575 \$	824,391 \$	212,810 \$	167,781 \$	30,425,127
	1.38%	58.13%	8.79%	13.81%	3.33%	10.26%	3.04%	0.70%	0.55%	100.00%
Levelized Cost of Capital										
buried cable	28,335 \$	1,227,108 \$	174,153 \$	237,518 \$	51,154 \$	125,656 \$	26,849 \$	5,294 \$	3,840 \$	1,879,206
aerial cable	18,432	768,744	128,049	233,893	62,666	226,865	81,570	19,898	16,322	1,556,438
poles	3,805	153,274	22,802	37,931	8,882	12,578	7,388	1,567	1,149	264,357
conduct	2,431	93,009	15,458	20,136	5,399	12,907	3,029	638	485	153,472
manholes	7,569	300,998	44,241	75,749	17,822	55,942	15,114	3,207	2,350	522,993
TOTAL	232	12,926	1,708	1,681	353	1,016	262	55	40	18,252
TOTAL	60,804 \$	2,556,059 \$	386,410 \$	606,888 \$	146,256 \$	450,264 \$	133,212 \$	30,659 \$	24,167 \$	4,394,718
Network Expenses										
buried cable	4,643 \$	201,059 \$	28,535 \$	38,917 \$	8,381 \$	20,638 \$	4,235 \$	867 \$	629 \$	307,904
aerial cable	6,979	291,058	48,481	88,556	23,726	85,895	30,884	7,534	6,180	589,292
poles	2,082	83,867	12,477	20,754	4,849	15,090	4,042	858	629	144,648
conduct	1,245	47,614	7,913	10,308	2,764	6,608	1,551	326	238	78,567
manholes	112	4,460	656	1,122	264	829	224	48	35	7,749
TOTAL	3	192	25	25	5	15	4	1	1	270
TOTAL	15,064 \$	628,250 \$	98,087 \$	159,682 \$	39,990 \$	129,073 \$	40,940 \$	9,633 \$	7,711 \$	1,128,431
Summary										
Cost of Capital	60,804 \$	2,556,059 \$	386,410 \$	606,888 \$	146,256 \$	450,264 \$	133,212 \$	30,659 \$	24,167 \$	4,394,718
Network Expense	15,064	628,250	98,087	159,682	39,990	129,073	40,940	9,633	7,711	1,128,431
TOTAL	75,867 \$	3,184,309 \$	484,497 \$	766,570 \$	186,247 \$	579,337 \$	174,152 \$	40,292 \$	31,878 \$	5,523,149
Transmission Terminal Investment										
levelized cost of capital	115,443 \$	6,030,962 \$	1,447,548 \$	4,434,464 \$	1,587,494 \$	8,456,526 \$	4,822,505 \$	1,639,152 \$	1,714,449 \$	30,248,544
network expenses	20,884	1,091,043	261,872	802,226	287,189	1,528,845	872,425	296,534	310,156	5,472,174
TOTAL	1,766	92,274	22,147	67,847	24,289	129,385	73,784	25,079	26,231	462,803
TOTAL	22,651 \$	1,183,317 \$	284,019 \$	870,073 \$	311,477 \$	1,659,230 \$	946,209 \$	321,613 \$	336,387 \$	5,934,977

Direct Transport

	0-5 line/sq mi	5-100 line/sq mi	100-200 line/sq mi	200-650 line/sq mi	650-850 line/sq mi	850-2550 line/sq mi	2550-5000 line/sq mi	5000-10000 line/sq mi	>10000 line/sq mi	Totals
Direct Transport Investment										
underground cable	106,314 \$	6,596,494 \$	692,593 \$	889,540 \$	163,523 \$	421,790 \$	70,074 \$	11,808 \$	6,400 \$	8,956,537
buried cable	69,533	3,859,210	494,434	813,606	191,890	684,909	209,792	43,803	27,579	6,394,755
aerial cable	14,203	787,303	89,057	135,948	27,677	87,006	19,878	3,486	1,914	1,166,472
poles	9,166	485,072	61,999	71,832	17,138	42,199	8,156	1,418	774	697,754
conduct	28,402	1,547,623	173,518	271,924	55,927	176,974	40,982	7,172	3,938	2,306,370
manholes	852	72,890	7,009	6,324	1,114	3,267	708	124	68	92,355
TOTAL	228,460 \$	13,348,592 \$	1,518,611 \$	2,189,174 \$	457,268 \$	1,416,144 \$	349,501 \$	67,810 \$	40,673 \$	19,616,242
	1.16%	68.05%	7.74%	11.16%	2.33%	7.22%	1.78%	0.35%	0.21%	100.00%
Levelized Cost of Capital										
underground cable	15,417 \$	956,591 \$	100,436 \$	128,997 \$	23,713 \$	61,166 \$	10,162 \$	1,712 \$	928 \$	1,299,123
buried cable	9,991	554,522	71,044	116,905	27,572	98,413	30,145	6,294	3,963	918,850
aerial cable	2,060	114,171	12,915	19,715	4,014	12,617	2,883	506	278	169,156
poles	1,329	70,343	8,991	10,417	2,485	6,120	1,183	206	112	101,185
conduct	4,096	223,188	25,024	39,215	8,065	25,522	5,997	1,034	568	332,609
manholes	123	10,512	1,011	912	161	471	102	18	10	13,319
TOTAL	33,016 \$	1,929,326 \$	219,421 \$	316,161 \$	66,010 \$	204,309 \$	50,371 \$	9,770 \$	5,858 \$	2,834,241
Network Expenses										
underground cable	2,526 \$	156,736 \$	16,456 \$	21,136 \$	3,885 \$	10,022 \$	1,665 \$	281 \$	152 \$	212,859
buried cable	3,783	209,951	26,898	44,282	10,439	37,261	11,413	2,383	1,500	347,881
aerial cable	1,127	62,471	7,066	10,787	2,196	6,904	1,577	277	152	97,557
poles	680	36,011	4,603	5,333	1,272	3,133	605	105	57	51,800
conduct	61	3,307	371	581	120	378	87	15	8	4,928
manholes	2	156	15	14	2	7	2	0	0	197
TOTAL	8,179 \$	408,630 \$	55,410 \$	82,112 \$	17,915 \$	57,704 \$	15,350 \$	3,061 \$	1,870 \$	710,232
Summary										
Cost of Capital	33,016 \$	1,929,326 \$	219,421 \$	316,161 \$	66,010 \$	204,309 \$	50,371 \$	9,770 \$	5,858 \$	2,834,241
Network Expense	8,179 \$	408,630 \$	55,410 \$	82,112 \$	17,915 \$	57,704 \$	15,350 \$	3,061 \$	1,870 \$	710,232
TOTAL	41,194 \$	2,397,957 \$	274,830 \$	398,273 \$	83,925 \$	262,013 \$	65,721 \$	12,831 \$	7,729 \$	3,544,473
Transmission Terminal										
Investment	57,085 \$	3,440,153 \$	676,782 \$	1,821,606 \$	591,513 \$	3,007,659 \$	1,531,404 \$	449,159 \$	375,778 \$	11,951,139
levelized cost of capital	10,327	622,348	122,435	329,541	107,009	544,107	277,042	81,266	67,961	2,162,045
network expenses	873	52,634	10,355	27,871	9,050	46,017	23,430	6,872	5,749	182,552
TOTAL	11,201 \$	674,982 \$	132,788 \$	357,412 \$	116,059 \$	590,124 \$	300,472 \$	88,128 \$	73,730 \$	2,344,697

Common Transport

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
Common Transport Investment										
underground cable	20,122 \$	1,254,326 \$	130,047 \$	163,330 \$	30,435 \$	77,497 \$	12,674 \$	2,133 \$	1,155 \$	1,691,720
buried cable	13,101	729,251	92,173	148,668	35,234	124,590	37,911	7,910	4,977	1,193,814
aerial cable	2,677	149,012	16,636	24,892	5,101	15,882	3,595	630	497	171,537
poles	1,795	92,443	11,682	13,175	3,196	7,744	1,475	256	140	218,770
conduit	5,351	292,798	32,394	49,784	10,303	32,295	7,395	1,296	711	131,845
manholes	161	13,926	1,321	1,158	206	597	128	22	12	432,327
TOTAL	43,147 \$	2,531,765 \$	294,254 \$	401,008 \$	84,474 \$	258,606 \$	63,179 \$	12,247 \$	7,340 \$	3,686,009
	1.17%	68.69%	7.71%	10.88%	2.29%	7.02%	1.71%	0.33%	0.20%	100.00%
Levelized Cost of Capital										
underground cable	2,918 \$	181,896 \$	18,859 \$	23,685 \$	4,414 \$	11,238 \$	1,838 \$	309 \$	168 \$	245,325
buried cable	1,882	104,785	13,244	21,362	5,063	17,902	5,447	1,137	715	171,537
aerial cable	388	21,609	2,413	3,610	740	2,303	521	91	50	31,725
poles	252	13,406	1,694	1,911	453	1,123	214	37	20	19,120
conduit	772	42,225	4,672	7,180	1,486	4,657	1,065	187	103	62,947
manholes	23	2,008	191	167	30	86	18	3	2	62,947
TOTAL	6,235 \$	365,929 \$	41,072 \$	57,914 \$	12,195 \$	37,310 \$	9,105 \$	1,764 \$	1,057 \$	532,582
Network Expenses										
underground cable	478 \$	29,803 \$	3,090 \$	3,881 \$	723 \$	1,841 \$	301 \$	51 \$	27 \$	40,196
buried cable	713	39,673	5,014	8,088	1,917	6,778	2,082	430	271	64,946
aerial cable	212	11,824	1,320	1,975	405	1,260	285	50	27	17,359
poles	129	6,863	867	978	227	575	109	19	10	9,788
conduit	11	626	69	106	22	69	16	3	2	924
manholes	0	30	3	2	0	1	0	0	0	37
TOTAL	1,544 \$	88,818 \$	10,364 \$	15,031 \$	3,304 \$	10,525 \$	2,774 \$	553 \$	338 \$	133,251
Summary										
Cost of Capital	6,235 \$	365,929 \$	41,072 \$	57,914 \$	12,195 \$	37,310 \$	9,105 \$	1,764 \$	1,057 \$	532,582
Network Expense	1,544	88,818	10,364	15,031	3,304	10,525	2,774	553	338	133,251
TOTAL	7,779 \$	454,747 \$	51,435 \$	72,945 \$	15,499 \$	47,835 \$	11,880 \$	2,317 \$	1,395 \$	665,832
Transmission Terminal										
investment	10,660 \$	640,194 \$	129,675 \$	331,133 \$	107,192 \$	544,257 \$	276,600 \$	81,110 \$	67,824 \$	2,182,644
levelized cost of capital	1,928	115,816	22,374	59,904	19,392	98,460	50,039	14,673	12,270	394,856
network expenses	163	9,795	1,892	5,066	1,640	8,327	4,232	1,241	1,038	33,394
TOTAL	2,092 \$	125,611 \$	24,266 \$	64,971 \$	21,032 \$	106,787 \$	54,271 \$	15,914 \$	13,308 \$	428,250

Tandem Switching

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Totals
Tandem Switching Investment										
tandem switching	\$ 12,454	\$ 832,508	\$ 227,292	\$ 649,832	\$ 230,993	\$ 1,236,084	\$ 654,427	\$ 193,307	\$ 151,795	\$ 4,188,692
wire center	13,336	897,664	246,583	706,886	251,849	1,349,140	715,727	211,837	166,970	4,560,000
TOTAL	\$ 25,790	\$ 1,730,173	\$ 473,875	\$ 1,356,718	\$ 482,842	\$ 2,585,224	\$ 1,370,153	\$ 405,143	\$ 318,765	\$ 8,748,692
	0.29%	19.78%	5.42%	15.51%	5.52%	29.55%	15.66%	4.63%	3.64%	100.00%
Levelized Cost of Capital										
tandem switching	\$ 1,919	\$ 128,295	\$ 35,027	\$ 100,144	\$ 35,698	\$ 190,489	\$ 100,852	\$ 29,790	\$ 23,393	\$ 645,507
wire center	1,897	127,705	35,080	100,564	35,829	191,935	101,822	30,137	23,754	648,722
TOTAL	\$ 3,816	\$ 256,000	\$ 70,107	\$ 200,708	\$ 71,527	\$ 382,424	\$ 202,674	\$ 59,927	\$ 47,146	\$ 1,294,228
Network Expenses										
tandem switching	\$ 335	\$ 22,394	\$ 6,114	\$ 17,480	\$ 6,214	\$ 33,251	\$ 17,604	\$ 5,200	\$ 4,083	\$ 112,676
wire center	2,153	144,932	39,812	114,130	40,662	217,826	115,557	34,202	26,958	736,232
TOTAL	\$ 2,488	\$ 167,326	\$ 45,926	\$ 131,610	\$ 46,876	\$ 251,077	\$ 133,161	\$ 39,402	\$ 31,041	\$ 848,908
Summary										
Cost of Capital	\$ 3,816	\$ 256,000	\$ 70,107	\$ 200,708	\$ 71,527	\$ 382,424	\$ 202,674	\$ 59,927	\$ 47,146	\$ 1,294,228
Network Expense	\$ 2,488	\$ 167,326	\$ 45,926	\$ 131,610	\$ 46,876	\$ 251,077	\$ 133,161	\$ 39,402	\$ 31,041	\$ 848,908
TOTAL	\$ 6,305	\$ 423,326	\$ 116,033	\$ 332,318	\$ 118,302	\$ 633,501	\$ 335,835	\$ 99,328	\$ 78,188	\$ 2,143,136

Operator Services

	0-5 line/eq mi	5-100 line/eq mi	100-200 line/eq mi	200-650 line/eq mi	650-850 line/eq mi	850-2550 line/eq mi	2550-5000 line/eq mi	5000-10000 line/eq mi	>10000 line/eq mi	Total
Operator Investment										
OS Tandem Switching	\$ 5,491	\$ 368,260	\$ 100,578	\$ 287,594	\$ 102,272	\$ 547,038	\$ 289,629	\$ 85,535	\$ 67,182	\$ 1,853,578
OS Tandem Wire Center	\$ 5,118	\$ 344,498	\$ 94,632	\$ 271,283	\$ 96,653	\$ 517,766	\$ 274,076	\$ 81,297	\$ 64,078	\$ 1,750,000
OS Trunks	\$ 23,443	\$ 1,269,591	\$ 137,422	\$ 206,836	\$ 42,094	\$ 131,956	\$ 28,911	\$ 4,891	\$ 2,491	\$ 1,847,637
OS Position	\$ 14,900	\$ 1,002,936	\$ 275,500	\$ 799,785	\$ 281,384	\$ 1,507,368	\$ 799,662	\$ 238,679	\$ 186,551	\$ 5,094,766
TOTAL	\$ 48,951	\$ 2,985,285	\$ 608,133	\$ 1,555,498	\$ 522,403	\$ 2,704,128	\$ 1,392,878	\$ 408,401	\$ 320,303	\$ 10,545,980
	0.46%	28.31%	5.77%	14.75%	4.95%	25.64%	13.21%	3.87%	3.04%	100.00%
Levelized Cost of Capital										
OS Tandem Switching	\$ 846	\$ 56,751	\$ 15,500	\$ 44,320	\$ 15,761	\$ 84,302	\$ 44,634	\$ 13,181	\$ 10,353	\$ 285,649
OS Tandem Wire Center	\$ 728	\$ 49,010	\$ 13,463	\$ 38,594	\$ 13,750	\$ 73,659	\$ 39,076	\$ 11,566	\$ 9,116	\$ 248,961
OS Trunks	\$ 3,541	\$ 191,777	\$ 20,758	\$ 31,243	\$ 6,359	\$ 15,933	\$ 4,367	\$ 739	\$ 376	\$ 279,093
OS Position	\$ 3,363	\$ 226,364	\$ 62,181	\$ 178,256	\$ 63,609	\$ 340,215	\$ 180,485	\$ 53,419	\$ 42,105	\$ 1,149,897
TOTAL	\$ 8,478	\$ 523,902	\$ 111,902	\$ 292,413	\$ 93,378	\$ 518,110	\$ 268,562	\$ 78,905	\$ 61,950	\$ 1,983,600
Network Expenses										
OS Tandem Switching	\$ 148	\$ 9,906	\$ 2,706	\$ 7,736	\$ 2,751	\$ 14,715	\$ 7,791	\$ 2,301	\$ 1,807	\$ 49,861
OS Tandem Wire Center	\$ 826	\$ 55,821	\$ 15,279	\$ 43,800	\$ 15,605	\$ 83,596	\$ 44,348	\$ 13,126	\$ 10,346	\$ 282,545
OS Trunks	\$ 1,151	\$ 62,357	\$ 6,750	\$ 10,159	\$ 2,067	\$ 6,481	\$ 1,420	\$ 240	\$ 122	\$ 90,748
OS Position	\$ 3,815	\$ 256,813	\$ 70,545	\$ 202,233	\$ 72,052	\$ 385,979	\$ 204,763	\$ 60,604	\$ 47,769	\$ 1,304,573
Operator Wages	\$ 17,868	\$ 1,202,735	\$ 330,384	\$ 947,121	\$ 337,440	\$ 1,807,658	\$ 958,986	\$ 283,829	\$ 223,715	\$ 6,109,715
TOTAL	\$ 23,809	\$ 1,587,432	\$ 425,663	\$ 1,211,049	\$ 429,915	\$ 2,298,429	\$ 1,217,287	\$ 360,100	\$ 283,758	\$ 7,837,443
Summary										
Cost of Capital	\$ 8,478	\$ 523,902	\$ 111,902	\$ 292,413	\$ 93,378	\$ 518,110	\$ 268,562	\$ 78,905	\$ 61,950	\$ 1,983,600
Network Expense	\$ 23,809	\$ 1,587,432	\$ 425,663	\$ 1,211,049	\$ 429,915	\$ 2,298,429	\$ 1,217,287	\$ 360,100	\$ 283,758	\$ 7,837,443
TOTAL	\$ 32,287	\$ 2,111,334	\$ 537,564	\$ 1,503,462	\$ 529,293	\$ 2,816,538	\$ 1,486,850	\$ 439,005	\$ 345,709	\$ 9,801,043

Public Telephone

	0-5 line/sq mi	5-100 line/sq mi	100-200 line/sq mi	200-650 line/sq mi	650-850 line/sq mi	850-2550 line/sq mi	2550-5000 line/sq mi	5000-10000 line/sq mi	>10000 line/sq mi	Total
Public Telephone Investment	\$ 15,495	\$ 1,008,289	\$ 326,235	\$ 1,100,615	\$ 439,944	\$ 2,510,023	\$ 1,539,089	\$ 554,379	\$ 590,051	\$ 8,084,120
	0.19%	12.47%	4.04%	13.61%	5.44%	31.05%	19.04%	6.86%	7.30%	100.00%
Levelized Cost of Capital	\$ 3,405	\$ 221,575	\$ 71,691	\$ 241,864	\$ 96,679	\$ 551,587	\$ 338,220	\$ 121,827	\$ 129,666	\$ 1,776,515
Network Expenses	\$ 3,040	\$ 197,799	\$ 63,999	\$ 215,911	\$ 86,305	\$ 492,398	\$ 301,927	\$ 108,754	\$ 115,752	\$ 1,585,884
Summary										
Cost of Capital	\$ 3,405	\$ 221,575	\$ 71,691	\$ 241,864	\$ 96,679	\$ 551,587	\$ 338,220	\$ 121,827	\$ 129,666	\$ 1,776,515
Network Expense	\$ 3,040	\$ 197,799	\$ 63,999	\$ 215,911	\$ 86,305	\$ 492,398	\$ 301,927	\$ 108,754	\$ 115,752	\$ 1,585,884
TOTAL	\$ 6,445	\$ 419,374	\$ 135,690	\$ 457,775	\$ 182,984	\$ 1,043,985	\$ 640,148	\$ 230,581	\$ 245,418	\$ 3,362,399

CCCT action

[illegible]

CCCF factor

EXPENSE MODULE INPUTS

State
CompanyUser Inputs
Tennessee
SOUTH CENTRAL BELLNovember 29, 1999
12:45 PM

Cost of Capital Inputs

Cost of Debt	7.30%
Debt fraction	40.00%
Cost of Equity	12.45%
Equity fraction	
Weighted equity fraction	60.00%
Overall Cost of Capital	71.91%
	10.40%

Traffic Inputs

local DEMs, thousands	47,023,789	
intrastate DEMs, thousands	3,341,185	
interstate DEMs, thousands	7,256,302	
local call completion fraction	70.00%	
Total local calls attempted	10,833,659	57,627,276, total DEMs, thousands
Total intrastate calls completed	218,791	7,253,568, total local calls completed
Total intrastate calls completed - intrastate	160,967	
Total interstate calls completed - interstate	671,563	
local DEM fraction	79.60%	
local interoffice traffic fraction	56.03%	
D link investment, per link	666	
Bushties D1-Ms ratio (local, state, interstate)	110%	
entrance facility investment per line	0.6	
local direct routed fraction	98.00%	
random routed intrastate fraction	20.00%	
random routed access fraction	20.00%	
maximum trunk usage, CCS	27.5	
ISUP msgs per 100 call attempt	8	
avg ISUP msg length, octets	25	
TCAP msgs per transaction	2	
TCAP msg length, octets	100	
fraction of calls requiring TCAP	10.00%	
trunk port investment, per port	100	
Switch line circuit offset per DLC line	5.00	
Total signaling links	782	
Average trunk utilization	30.00%	

Cost Parameters

tax rate	39.25%
corporate overhead factor	10.50%
other taxes factor	1.45%
billing/inquiry per line per month	1.22
directory listing per line per month	0.15
forward looking network operations factor	50.00%
alternative CO switching factor	2.85%
alternative circuit equipment factor	1.53%
EO non-port fraction	40.00%
per line monthly LNP cost	0.25
Carrier-carrier Customer service, per line per year	1.88
NID expense per line per year	1.00
DS-0DS-1 terminal factor	12.4
DS-1DS-3 terminal factor	9.9
Average lines per business location	4.00

Account	USOA Category	Economic Lives	Net Salvage Percent	Adjusted Projection Lives (years)	Investment
---------	---------------	----------------	---------------------	-----------------------------------	------------

2112	Motor Vehicles	8	0.16	9.52	
2115	Garage Work Equipment	23	-0.01	22.77	
2116	Other Work Equipment	23	-0.01	22.77	
2121	Buildings	43	0.01	43.43	
2122	Furniture	18	0.08	18.78	
2123.1	Office Support Equipment	12	0.28	16.67	
2123.2	Company Comm Equip	6	0.28	8.33	
2124	Computers	7	0.02	7.14	
2212	Digital Switching	17	0.04	17.71	
2220	Operator Systems	14	0.05	14.74	
2232.2	Public Circuit Equipment	11	0	11.00	
2251	Public Telephone	6	0.2	7.50	
2411	NID, SNI			19.96	Calculated
2421-n	Poles	37	-0.48	25.00	
2421-nm	Aerial Cable - Metallic	20	-0.15	17.89	\$ 171,704,880
2422-n	Aerial Cable - Non Metal	30	-0.2	25.00	
2422-nm	Underground - Metallic	35	-0.08	28.16	\$ 56,614,011
2423-n	Underground - Non Metal	21	-0.05	20.00	\$ 406,216,346
2423-nm	Buried - Metallic	30	-0.09	27.52	
2424-n	Buried - Non Metallic	22	-0.1	20.00	
2424-nm	Freebacking - Metallic	22	-0.1	20.00	
2441	Intrabuilding - Non Metal	22	-0.05	81.90	
2441	Conduit Systems	65			
Average Metallic Cable (calculated)					19.36 \$ 240,434,758
					\$ 33,088,428

Structure fraction assigned to telephone

Density range	dist aerial	dist buried	dist underground	ldr aerial	ldr underground	ldr buried
0-5	50%	50%	100%	50%	50%	40%
5-100	33%	50%	50%	33%	50%	40%
100-200	25%	50%	50%	25%	40%	40%
200-650	25%	50%	50%	25%	33%	40%
650-850	25%	50%	40%	25%	33%	40%
850-2550	25%	50%	33%	25%	33%	40%
2550-5000	25%	50%	33%	25%	33%	40%
5000-10000	25%	50%	33%	25%	33%	40%
>10000	25%	50%	33%	25%	33%	40%

Usage Calculations

Intrastate Toll DEMs	3,347,185,000
Interstate Toll DEMs	7,256,202,000
Trunk port usage	53,591,387,160
Trunk min/rev	10,044
InterLATA dead trunks	75,173
Common Transport MOU	
Local	514,033,938 w/o OS usage
Intrastate Toll	669,437,000
Interstate Toll	1,451,260,400
Interstate Toll	2,634,731,338
Intrastate Initial ATA Calls	218,791
Intrastate InterLATA Calls	160,967
	379,758
	57.61% SOCCC message counts

Calculation of E/O Usage

Local DEMs, incl OS	47,023,789,000	81.6% of total DEMs
Intraoffice Local DEMs	20,676,319,881	
Interoffice Local Actual Min	10,338,159,941	
Interoffice Local Actual Min	26,347,469,119 per end	
Intrastate Toll Actual Min	3,347,185,000	
Intrastate Toll Actual Min	7,256,302,000	
	47,289,116,059	
Tandem Switch MOU		
Local	257,016,969	Dedicated Trunk SW
InterLATA Toll	192,842,271	186,057
InterLATA Toll	1,735,012,857	
	2,184,872,097	

ARMIS Inputs

[illegible]

Actuals for 1995 (\$000s)

Plant Specific Operations Expenses		Investments	Expenses	Calculated Factor	
TPIS - General Support					
2111 Land	\$	12,141	\$	-	
2112 Motor Vehicles	\$	51,710	\$	699	0.0135
2113 Aircraft	\$	0	\$	349	399,000,000,000
2114 Special Purpose Vehicles	\$	0	\$	118	0.1243
2115 Carriage Work Equipment	\$	949	\$	149	0.0047
2116 Other Work Equipment	\$	31,970	\$	37,506	0.1615
2122 Buildings	\$	232,301	\$	676	0.1255
2123 Furniture	\$	5,386	\$	2,877	0.2047
2123 Office Equipment	\$	14,058	\$	36,588	0.1846
2124 General Purpose Computers	\$	222,310	\$	79,002	0.1384
2110 Total Land & Support Assets	\$	570,825	\$		
TPIS - Central Office Switching					
2211 Analog Electronic Switching	\$	66,469	\$	7,452	0.1121
2212 Digital Electronic Switching	\$	724,120	\$	54,172	0.0748
TPIS - Central Office Transmission					
2220 Operator Systems	\$	19,261	\$	4,932	0.2561
2231 Satellite & Earth Station Facilities					
2231 Other Radio Facilities					
2232 Radio Systems					
2232 Circuit Equipment	\$	969,607	\$	23,814	0.0246
2230 Total Central Office Transmission	\$	969,607	\$	23,814	0.0246
TPIS - Information Orig/Term					
2311 Station Apparatus	\$	32	\$	298	9.3125
2321 Customer Premises Wiring	\$	-	\$	-	0.0000
2341 Large Private Branch Exchange	\$	6,841	\$	217	0.0317
2351 Public Telephone Terminal Equipment	\$	27,644	\$	5,423	0.1962
2362 Other Terminal Equipment	\$	23,439	\$	11,156	0.4760
2310 Total Information Orig/Term	\$	57,956	\$	17,094	0.2949
TPIS - Cable & Wire Facilities					
2411 Poles	\$	122,377	\$	9,085	0.0742
2421 Aerial Cable	\$	600,132	\$	47,619	0.0793
2422 Underground Cable	\$	275,542	\$	6,547	0.0238
2423 Buried Cable	\$	762,630	\$	41,489	0.0544
2424 Submarine Cable					
2425 Deep Sea Cable					
2426 IntraBuilding Network Cable					
2431 Aerial Wire					
2431 Cordia Systems	\$	185,323	\$	396	0.0021
2410 Total Cable & Wire Facilities	\$	1,946,004	\$	105,136	0.0540
240 Total TPIS (before amortizable assets)	\$	4,354,242	\$	291,602	0.0670
Plant Non-Specific Operations Expenses					
		Expenses	Investment	Factor	
6512 Provisioning Expenses	\$	1,374	\$	4,354,242	0.0003
6531 Power Expenses	\$	4,849	\$	4,354,242	0.0011
6532 Network Administration	\$	7,504	\$	4,354,242	0.0018
6533 Testing	\$	22,702	\$	4,354,242	0.0052
6534 Plant Operations Administration	\$	32,483	\$	4,354,242	0.0075
6535 Engineering	\$	32,741	\$	4,354,242	0.0075
6540 Access Expense	\$	102,083	\$	4,354,242	0.0234
6530 Total Network Operations Expenses (includes provisioning)	\$		\$		
Network Support Factor Calculation		Expenses	Cable & Wire Inv	Factor	
6112 Motor Vehicles	\$	699			
6113 Aircraft	\$	389			
6114 Special Purpose Vehicles	\$	-			
6115 Carriage Work Equipment	\$	118			
6116 Other Work Equipment	\$	149			
Aircraft & Special Purpose Vehicles	\$	966	\$	1,946,004	0.0005

Land & Bldg Exp Applied to Bkgs

2.69% NET CO Switch Factor

1.53% alternative factor

0.049115586

per line network operations
total lines (from net invest inputs)
annual net ops per line

(total ARMS 6530 total lines)
2,628,819
38.83

Customer Operations Expenses

	Expenses	Net Revenues	Factor
6611 Product Management *	\$ 13,528	\$ 0.4288	\$ 837,876
6612 Sales *	\$ 32,214	\$ 1.0212	\$ 837,876
6613 Product Advertising	\$ 11,660	\$	\$ 837,876
6610 Total Marketing Expenses	\$ 57,402	\$	\$ 837,876
6621 Call Completion Service	\$ 7,795	\$	\$ 837,876
6622 Number Services	\$ 32,636	\$ 1.0346	\$ 837,876
6623 Customer Services	\$ 87,902	\$ 2.7865	\$ 837,876
6620 Total Services Expenses	\$ 128,333	\$ 4.24	\$ 837,876
Billing/Inquiry (per line/month)	\$ 1.22		
Directory listing (per line/month)	\$ 0.150		
700 Total Customer Operations Expenses	\$ 185,735.00	\$	\$ 837,876

Corporate Operations Expenses

	Expenses	Revenues	Factor
6711 Executive	\$ 4,703	\$	\$ 837,876
6712 Planning	\$ 1,712	\$	\$ 837,876
6710 Total Executive & Planning	\$ 6,415	\$	\$ 837,876
6721 Accounting & Finance	\$ 12,716	\$	\$ 837,876
6722 External Relations	\$ 14,182	\$	\$ 837,876
6723 Human Resources	\$ 15,601	\$	\$ 837,876
6724 Information Management	\$ 64,667	\$	\$ 837,876
6725 Legal	\$ 4,038	\$	\$ 837,876
6726 Procurement	\$ 3,423	\$	\$ 837,876
6727 Research & Development	\$ 3,682	\$	\$ 837,876
6728 Other General & Administrative	\$ 53,818	\$	\$ 837,876
6720 Total General & Administrative	\$ 172,127	\$	\$ 837,876
710 Total Corporate Operations Expense	\$ 178,542	\$	\$ 837,876

720 Total Operating Expenses \$ 757,962
 note does not include depreciation

0.2356
 48.06% Total Operations General Support Allocator
 45.95% "Office Worker" General Support Allocator

Misc Expenses Calculation

	2122 Furniture	2123 Office Equipment	2124 GP Computer	2112 Motor Vehicles	2121 Buildings	2115 Garage Work	2116 Other Work
Investment	\$ 5,386	\$ 14,058	\$ 222,310	\$ 51,710	\$ 116,151	\$ 949	\$ 31,970
Investment/TPIS	0.001	0.003	0.051	0.012	0.027	0.000	0.007
Expense	\$ 676	\$ 2,817	\$ 36,588	\$ 699	\$ 18,753	\$ 118	\$ 149
Expense Factor	0.126	0.205	0.165	0.014	0.161	0.124	0.005
Model TPIS	\$ 2,870,957	\$ 2,870,957	\$ 2,870,957	\$ 2,870,957	\$ 2,870,957	\$ 2,870,957	\$ 2,870,957
Calculated Investment	\$ 3,551	\$ 9,269	\$ 146,579	\$ 34,085	\$ 76,584	\$ 626	\$ 21,079
Calculated Expense	\$ 446	\$ 1,897	\$ 24,124	\$ 461	\$ 12,385	\$ 78	\$ 98
Subtotal (\$)	\$ 20,983,065						

Total Misc Expense

\$ 20,983,065

Other Taxes & Uncollectibles Calculation

	Expenses	Net Revenues	Factor
7230 Operating State & Local Income Tax	\$ 17,235	\$ (90,837)	0.0145
7240 Operating Other Taxes	\$ 74,906	\$	0.0118
5300 Uncollectible Revenues	\$ 9,867	\$ 837,876	0.0078
retail			
wholesale			
Ratio of Net Plant to TPIS			0.0049

TPIS \$ 4,354,242
 Net Plant \$ 4,354,242
 Ratio 1
 Model Investment \$
 Model % of Net Plant \$
 Model % of TPIS 0%

Actual 1995 Revenue

		% of total
Interstate Access		
5081 End User	\$ 114,330	8.77%
5082 Switched Access	\$ 204,348	15.67%
5083 Special Access	\$ 51,543	3.95%
Total Inter Access	\$ 370,221	28.39%
State Access Revenue		
5084 End User	\$ -	0.00%
5084 Switched Access	\$ -	0.00%
5084 Special Access	\$ -	0.00%
Total State Access	\$ -	0.00%
Total Access Revenue	\$ 370,221	28.39%
Long Distance Network Revenue		
5100 Interstate Message	\$ -	0.00%
5100 Intrastate Message	\$ -	0.00%
5100 Interstate Calling Plan	\$ -	0.00%
5100 Intrastate Calling Plan	\$ -	0.00%
Total LD Msg Revenue	\$ 85,415	6.55%
Unidirectional LD Revenue		
5110 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 8,853	0.68%
LD Private Network Revenue		
5120 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 11,001	0.84%
Other Long Distance Revenue		
5160 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 634	0.05%
Total Long Distance Network Rev		
Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 105,903	8.12%

Basic Local Service		
5001 Basic Area	\$ 446,189	34.21%
5002 Optional Extended Area	\$ 80,204	6.15%
5003 Cellular Mobile	\$ -	0.00%
5004 Other Mobile Svcs	\$ 44	0.00%
Total Basic Local Service	\$ 526,437	40.37%
Public Telephone Revenue		
5010 Local Public Msgs	\$ -	0.00%
Universal Public Phone	\$ -	0.00%
Public Exchange - IX Carrier	\$ -	0.00%
Credit Card Coinless	\$ -	0.00%
Public Exchange - CPE	\$ -	0.00%
Semi-Public Msgs	\$ -	0.00%
Other Public Phone Revenue	\$ -	0.00%
Total Public Phone Revenue	\$ 28,943	2.22%
Local Private Line Revenue		
5040 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total Private Line	\$ 34,018	2.61%
Customer Premises Revenue		
5050 Station Apparatus	\$ -	0.00%
Customer Premises Wiring	\$ -	0.00%
Total Customer Premises	\$ 2,798	0.21%
Other Local Exchange Revenue		
5060 Central Office Features	\$ -	0.00%
Information Transport	\$ -	0.00%
Directory Assistance	\$ -	0.00%
Intercept Services	\$ -	0.00%
Other Loc Exchg	\$ -	0.00%
Total Other	\$ 235,841	18.08%
Total Local Network Service Revenue		
Interstate	\$ -	0.00%
Intrastate	\$ 828,037	63.49%
Total Revenue	\$ 1,304,161	100.00%

Hatfield Model Release 4.0

Expense Module Release 4.0

Copyright 1997,
Hatfield Associates, Inc., AT&T Corp.,
and MCI Telecommunications Corporation

All rights reserved.

Users making modifications to non-user adjustable inputs of
the Hatfield Model may not represent generated calculations
as those of the Hatfield Model.

Scenario Inputs

NOTE: This sheet displays all user adjustable inputs which vary from HM 4.0 default settings

Workfile Name: C:\Program Files\HM40\WORKFILES\HMWKTN4794191.XLS
Distribution Module Name: C:\Program Files\HM40\MODULES\R40_distribution.xls
Feeder Module Name: C:\Program Files\HM40\MODULES\R40_feeder.xls
Switching Module Name: C:\Program Files\HM40\MODULES\R40_switching_io.xls
Expense Module Name: C:\Program Files\HM40\MODULES\R40_expense_density.xls

Module/Table	Scenario Input	Scenario Value	Default Value
Expense	Cost of Debt	0.073	0.077
Expense	Debt Fraction	0.4	0.45
Expense	Cost of Equity	0.1246	0.119
Expense	Other Taxes Factor	0.0145	0.05
Expense	EO Traffic Sensitive Fraction	0.4	0.7
Expense	Distribution Buried Shring Fraction - 0	0.5	0.33
Expense	Distribution Buried Shring Fraction - 5	0.5	0.33
Expense	Distribution Buried Shring Fraction - 100	0.5	0.33
Expense	Distribution Buried Shring Fraction - 200	0.5	0.33
Expense	Distribution Buried Shring Fraction - 650	0.5	0.33
Expense	Distribution Buried Shring Fraction - 850	0.5	0.33
Expense	Distribution Buried Shring Fraction - 2550	0.5	0.33
Expense	Distribution Buried Shring Fraction - 5000	0.5	0.33
Expense	Distribution Buried Shring Fraction - 10000	0.5	0.33
Expense	Motor Vehicles - Economic Life	8	8.24
Expense	Garage Work Equipment - Economic Life	23	12.22
Expense	Other Work Equipment - Economic Life	23	13.04
Expense	Buildings - Economic Life	43	46.93
Expense	Furniture - Economic Life	18	15.92
Expense	Office Support Equipment - Economic Life	12	10.78
Expense	Company Comm. Equipment - Economic Life	6	7.4
Expense	General Purpose Computer - Economic Life	7	6.12
Expense	Digital Electronic Switching - Economic Life	17	16.17
Expense	Operator Systems - Economic Life	14	9.41
Expense	Digital Circuit Equipment - Economic Life	11	10.24
Expense	Public Telephone Terminal Equipment - Economic Life	6	7.6
Expense	Poles - Economic Life	37	30.25
Expense	Aerial Cable - metallic - Economic Life	20	20.61
Expense	Aerial Cable - non metallic - Economic Life	30	26.14
Expense	Underground Cable - non metallic - Economic Life	30	26.45

Scenario Inputs

Expense	Buried - metallic - Economic Life	21	21.57
Expense	Buried - non metallic - Economic Life	30	25.91
Expense	Intrabuilding Cable - metallic - Economic Life	22	18.18
Expense	Intrabuilding Cable - non metallic - Economic Life	22	26.11
Expense	Conduit Systems - Economic Life	65	56.19
Expense	Motor Vehicles - Net Salvage %	0.16	0.1121
Expense	Garage Work Equipment - Net Salvage %	-0.01	-0.1071
Expense	Other Work Equipment - Net Salvage %	-0.01	0.0321
Expense	Buildings - Net Salvage %	0.01	0.0187
Expense	Furniture - Net Salvage %	0.09	0.0688
Expense	Office Support Equipment - Net Salvage %	0.28	0.0691
Expense	Company Comm. Equipment - Net Salvage %	0.28	0.0376
Expense	General Purpose Computer - Net Salvage %	0.02	0.0373
Expense	Digital Electronic Switching - Net Salvage %	0.04	0.0297
Expense	Operator Systems - Net Salvage %	0.05	-0.0082
Expense	Digital Circuit Equipment - Net Salvage %	0	-0.0169
Expense	Public Telephone Terminal Equipment - Net Salvage %	0.2	0.0797
Expense	Poles - Net Salvage %	-0.48	-0.8998
Expense	Aerial Cable - metallic - Net Salvage %	-0.15	-0.2303
Expense	Aerial Cable - non metallic - Net Salvage %	-0.2	-0.1753
Expense	Underground Cable - metallic - Net Salvage %	-0.08	-0.1826
Expense	Underground Cable - non metallic - Net Salvage %	-0.2	-0.1458
Expense	Buried - metallic - Net Salvage %	-0.05	-0.0839
Expense	Buried - non metallic - Net Salvage %	-0.09	-0.0858
Expense	Intrabuilding Cable - metallic - Net Salvage %	-0.1	-0.1574
Expense	Intrabuilding Cable - non metallic - Net Salvage %	-0.1	-0.1052
Expense	Conduit Systems - Net Salvage %	-0.05	-0.1034

Hatfield Model Release 4.0

User Adjustable Inputs

Distribution Input				Feeder Input			
Current Scenario Value		Default Scenario Value		Current Scenario Value		Default Scenario Value	
Distribution Cable Fill - 0	0.50	0.50	Copper Feeder Fill - 0	0.65	0.65		
Distribution Cable Fill - 5	0.55	0.55	Copper Feeder Fill - 5	0.75	0.75		
Distribution Cable Fill - 100	0.55	0.55	Copper Feeder Fill - 100	0.80	0.80		
Distribution Cable Fill - 200	0.60	0.60	Copper Feeder Fill - 200	0.80	0.80		
Distribution Cable Fill - 650	0.65	0.65	Copper Feeder Fill - 650	0.80	0.80		
Distribution Cable Fill - 850	0.70	0.70	Copper Feeder Fill - 850	0.80	0.80		
Distribution Cable Fill - 2550	0.75	0.75	Copper Feeder Fill - 2550	0.80	0.80		
Distribution Cable Fill - 5000	0.75	0.75	Copper Feeder Fill - 5000	0.80	0.80		
Distribution Cable Fill - 10000	0.75	0.75	Copper Feeder Fill - 10000	0.80	0.80		
Buried Fraction - 0	0.75	0.75	Fiber Feeder Strand Fill - 0	1.00	1.00		
Buried Fraction - 5	0.75	0.75	Fiber Feeder Strand Fill - 5	1.00	1.00		
Buried Fraction - 100	0.75	0.75	Fiber Feeder Strand Fill - 100	1.00	1.00		
Buried Fraction - 200	0.70	0.70	Fiber Feeder Strand Fill - 200	1.00	1.00		
Buried Fraction - 650	0.70	0.70	Fiber Feeder Strand Fill - 650	1.00	1.00		
Buried Fraction - 850	0.70	0.70	Fiber Feeder Strand Fill - 850	1.00	1.00		
Buried Fraction - 2550	0.65	0.65	Fiber Feeder Strand Fill - 2550	1.00	1.00		
Buried Fraction - 5000	0.35	0.35	Fiber Feeder Strand Fill - 5000	1.00	1.00		
Buried Fraction - 10000	0.05	0.05	Fiber Feeder Strand Fill - 10000	1.00	1.00		
Aerial Cable Fraction - 0	0.25	0.25	Copper Aerial Fraction - 0	0.50	0.50		
Aerial Cable Fraction - 5	0.25	0.25	Copper Aerial Fraction - 5	0.50	0.50		
Aerial Cable Fraction - 100	0.25	0.25	Copper Aerial Fraction - 100	0.50	0.50		
Aerial Cable Fraction - 200	0.30	0.30	Copper Aerial Fraction - 200	0.40	0.40		
Aerial Cable Fraction - 650	0.30	0.30	Copper Aerial Fraction - 650	0.30	0.30		
Aerial Cable Fraction - 850	0.30	0.30	Copper Aerial Fraction - 850	0.20	0.20		
Aerial Cable Fraction - 2550	0.30	0.30	Copper Aerial Fraction - 2550	0.15	0.15		
Aerial Cable Fraction - 5000	0.60	0.60	Copper Aerial Fraction - 5000	0.10	0.10		
Aerial Cable Fraction - 10000	0.85	0.85	Copper Aerial Fraction - 10000	0.05	0.05		
Pole Spacing, feet - 0	250	250	Copper Buried Fraction - 0	0.45	0.45		
Pole Spacing, feet - 5	250	250	Copper Buried Fraction - 5	0.45	0.45		
Pole Spacing, feet - 100	200	200	Copper Buried Fraction - 100	0.45	0.45		
Pole Spacing, feet - 200	200	200	Copper Buried Fraction - 200	0.40	0.40		
Pole Spacing, feet - 650	175	175	Copper Buried Fraction - 650	0.30	0.30		
Pole Spacing, feet - 850	175	175	Copper Buried Fraction - 850	0.20	0.20		
Pole Spacing, feet - 2550	150	150	Copper Buried Fraction - 2550	0.10	0.10		
Pole Spacing, feet - 5000	150	150	Copper Buried Fraction - 5000	0.05	0.05		
Pole Spacing, feet - 10000	150	150	Copper Buried Fraction - 10000	0.05	0.05		
Drop Distance, feet - 0	150	150	Copper Manhole Spacing, feet - 0	800	800		
Drop Distance, feet - 5	150	150	Copper Manhole Spacing, feet - 5	800	800		
Drop Distance, feet - 100	100	100	Copper Manhole Spacing, feet - 100	800	800		
Drop Distance, feet - 200	100	100	Copper Manhole Spacing, feet - 200	800	800		
Drop Distance, feet - 650	50	50	Copper Manhole Spacing, feet - 650	600	600		
Drop Distance, feet - 850	50	50	Copper Manhole Spacing, feet - 850	600	600		
Drop Distance, feet - 2550	50	50	Copper Manhole Spacing, feet - 2550	600	600		
Drop Distance, feet - 5000	50	50	Copper Manhole Spacing, feet - 5000	400	400		
Drop Distance, feet - 10000	50	50	Copper Manhole Spacing, feet - 10000	400	400		
Aerial Drop Placement (total) - 0	23.33	23.33	Fiber Aerial Fraction - 0	0.35	0.35		
Aerial Drop Placement (total) - 5	23.33	23.33	Fiber Aerial Fraction - 5	0.35	0.35		
Aerial Drop Placement (total) - 100	17.50	17.50	Fiber Aerial Fraction - 100	0.35	0.35		
Aerial Drop Placement (total) - 200	17.50	17.50	Fiber Aerial Fraction - 200	0.30	0.30		
Aerial Drop Placement (total) - 650	11.67	11.67	Fiber Aerial Fraction - 650	0.30	0.30		
Aerial Drop Placement (total) - 850	11.67	11.67	Fiber Aerial Fraction - 850	0.20	0.20		
Aerial Drop Placement (total) - 2550	11.67	11.67	Fiber Aerial Fraction - 2550	0.15	0.15		

Hatfield Model Release 4.0

User Adjustable Inputs

Distribution Input		Current Scenario Value	Default Scenario Value	Feeder Input		Current Scenario Value	Default Scenario Value
Aerial Drop Placement (total) - 5000		11.67	11.67	Fiber Aerial Fraction - 5000		0.10	0.10
Aerial Drop Placement (total) - 10000		11.67	11.67	Fiber Aerial Fraction - 10000		0.05	0.05
Buried Drop Placement (total) - 0		0.75	0.75	Fiber Buried Fraction - 0		0.60	0.60
Buried Drop Placement (total) - 5		0.75	0.75	Fiber Buried Fraction - 5		0.60	0.60
Buried Drop Placement (total) - 100		0.75	0.75	Fiber Buried Fraction - 100		0.60	0.60
Buried Drop Placement (total) - 200		0.75	0.75	Fiber Buried Fraction - 200		0.60	0.60
Buried Drop Placement (total) - 650		0.75	0.75	Fiber Buried Fraction - 650		0.30	0.30
Buried Drop Placement (total) - 850		0.75	0.75	Fiber Buried Fraction - 850		0.20	0.20
Buried Drop Placement (total) - 2550		1.13	1.13	Fiber Buried Fraction - 2550		0.10	0.10
Buried Drop Placement (total) - 5000		1.50	1.50	Fiber Buried Fraction - 5000		0.05	0.05
Buried Drop Placement (total) - 10000		5.00	5.00	Fiber Buried Fraction - 10000		0.05	0.05
Buried Drop Sharing Fraction - 0		0.33	0.33	Fiber Pulldown Spacing, feet - 0		2,000.00	2,000.00
Buried Drop Sharing Fraction - 5		0.33	0.33	Fiber Pulldown Spacing, feet - 5		2,000.00	2,000.00
Buried Drop Sharing Fraction - 100		0.33	0.33	Fiber Pulldown Spacing, feet - 100		2,000.00	2,000.00
Buried Drop Sharing Fraction - 200		0.33	0.33	Fiber Pulldown Spacing, feet - 200		2,000.00	2,000.00
Buried Drop Sharing Fraction - 650		0.33	0.33	Fiber Pulldown Spacing, feet - 650		2,000.00	2,000.00
Buried Drop Sharing Fraction - 850		0.33	0.33	Fiber Pulldown Spacing, feet - 850		2,000.00	2,000.00
Buried Drop Sharing Fraction - 2550		0.33	0.33	Fiber Pulldown Spacing, feet - 2550		2,000.00	2,000.00
Buried Drop Sharing Fraction - 5000		0.33	0.33	Fiber Pulldown Spacing, feet - 5000		2,000.00	2,000.00
Buried Drop Sharing Fraction - 10000		0.33	0.33	Fiber Pulldown Spacing, feet - 10000		2,000.00	2,000.00
Buried Drop Fraction - 0		0.75	0.75	Fiber Feeder Investment per foot - 216		13.10	13.10
Buried Drop Fraction - 5		0.75	0.75	Fiber Feeder Investment per foot - 144		9.50	9.50
Buried Drop Fraction - 100		0.75	0.75	Fiber Feeder Investment per foot - 96		7.10	7.10
Buried Drop Fraction - 200		0.70	0.70	Fiber Feeder Investment per foot - 72		5.90	5.90
Buried Drop Fraction - 650		0.70	0.70	Fiber Feeder Investment per foot - 60		5.30	5.30
Buried Drop Fraction - 850		0.70	0.70	Fiber Feeder Investment per foot - 48		4.70	4.70
Buried Drop Fraction - 2550		0.70	0.70	Fiber Feeder Investment per foot - 36		4.10	4.10
Buried Drop Fraction - 5000		0.40	0.40	Fiber Feeder Investment per foot - 24		3.50	3.50
Buried Drop Fraction - 10000		0.15	0.15	Fiber Feeder Investment per foot - 18		3.20	3.20
Pole Investment		201.00	201.00	Fiber Feeder Investment per foot - 12		2.90	2.90
Pole Labor		216.00	216.00	Copper Feeder Investment per foot - 4200		29.00	29.00
Buried Cable Jacking Multiplier		1.04	1.04	Copper Feeder Investment per foot - 3600		26.00	26.00
Conduit Investment per foot		0.60	0.60	Copper Feeder Investment per foot - 3000		23.00	23.00
Spare Tubes per route		1.00	1.00	Copper Feeder Investment per foot - 2400		20.00	20.00
Regional Labor Adjustment Factor		1.00	1.00	Copper Feeder Investment per foot - 1800		16.00	16.00
Residential NID case, no protector		10.00	10.00	Copper Feeder Investment per foot - 1200		12.00	12.00
Maximum lines per NID		15.00	15.00	Copper Feeder Investment per foot - 900		10.00	10.00
Residential Protection Block, per pair		6.00	6.00	Copper Feeder Investment per foot - 600		7.75	7.75
Business NID case, no protector		4.00	4.00	Copper Feeder Investment per foot - 400		6.00	6.00
Business NID basic labor		25.00	25.00	Copper Feeder Investment per foot - 200		4.25	4.25
Business Protection Block, per pair		15.00	15.00	Buried Copper Cable Sheath Multiplier		1.04	1.04
Average Lines per business location		4.00	4.00	Buried Fiber Sheath Addition per foot		0.20	0.20
Terminal and Splice per line, buried		42.50	42.50	Pole Materials		201.00	201.00
Terminal and Splice per line, aerial		32.00	32.00	Pole Labor		216.00	216.00
Drop cable investment per foot buried		0.14	0.14	Conduit Material Investment per foot		0.60	0.60
Drop cable buried pairs		3.00	3.00	Inner Duct Investment per foot		0.30	0.30
Drop cable investment per foot aerial		0.095	0.095	Spare Tubes per section		1.00	1.00
Drop cable aerial pairs		2.00	2.00	Regional Labor Multiplier		1.00	1.00
DS-0 fraction		1.00	1.00	Pole Spacing, feet - 0		250.00	250.00
DS-1 fraction		-	-	Pole Spacing, feet - 5		250.00	250.00
DS-0 pair equivalent		1.00	1.00	Pole Spacing, feet - 100		200.00	200.00

Hatfield Model Release 4.0

User Adjustable Inputs

Distribution Input		Current Scenario Value	Default Scenario Value
DS-1 pair equivalent		2.00	2.00
DS-3 pair equivalent		56.00	56.00
TR-303 DLC Site and Power		3,000.00	3,000.00
TR-303 DLC Maximum Lines/Increment		672.00	672.00
TR-303 DLC RT Fill Factor		0.90	0.90
TR-303 DLC Basic Common Eqp't Invest + initial lines		66,000.00	66,000.00
TR-303 DLC POTS Channel Unit Investment		310.00	310.00
TR-303 DLC POTS Lines per CU		4.00	4.00
TR-303 DLC Coin Channel Unit Investment		250.00	250.00
TR-303 DLC Coin Lines per CU		2.00	2.00
TR-303 DLC 303/LD crossover, lines		384.00	384.00
TR-303 DLC Optical Patch Panel		4.00	4.00
TR-303 DLC Copper Feeder Max Distance, ft		1,000.00	1,000.00
TR-303 DLC Common Eqp't Invest per additional 672 lines		9,000.00	9,000.00
TR-303 DLC Maximum Number of additional line modules/RT		18,500.00	18,500.00
Low Density DLC Site and Power		2,500	2,500
Low Density DLC Maximum Lines/Increment		96.00	96.00
Low Density DLC RT Fill Factor		0.90	0.90
Low Density DLC Basic Common Eqp't Invest + initial lines		13,000.00	13,000.00
Low Density DLC POTS Channel Unit Investment		310.00	310.00
Low Density DLC POTS Lines per CU		4.00	4.00
Low Density DLC Coin Channel Unit Investment		250.00	250.00
Low Density DLC Coin Lines per CU		2.00	2.00
Low Density DLC Fibers per RT		4.00	4.00
Low Density DLC Optical Patch Panel		1,000.00	1,000.00
Low Density DLC Common Eqp't Invest per additional 96 lines		11,000.00	11,000.00
Low Density DLC Maximum Number of additional line modules/RT		1.00	1.00
Distribution Cable Size 1		2,400.00	2,400.00
Distribution Cable Size 2		1,800.00	1,800.00
Distribution Cable Size 3		1,200.00	1,200.00
Distribution Cable Size 4		900.00	900.00
Distribution Cable Size 5		600.00	600.00
Distribution Cable Size 6		400.00	400.00
Distribution Cable Size 7		200.00	200.00
Distribution Cable Size 8		100.00	100.00
Distribution Cable Size 9		50.00	50.00
Distribution Cable Size 10		25.00	25.00
Distribution Cable Size 11		12.00	12.00
Distribution Cable Size 12		6.00	6.00
Distribution Cable Investment per foot 1		20.00	20.00
Distribution Cable Investment per foot 2		16.00	16.00
Distribution Cable Investment per foot 3		12.00	12.00
Distribution Cable Investment per foot 4		10.00	10.00
Distribution Cable Investment per foot 5		7.75	7.75
Distribution Cable Investment per foot 6		6.00	6.00
Distribution Cable Investment per foot 7		4.25	4.25
Distribution Cable Investment per foot 8		2.50	2.50
Distribution Cable Investment per foot 9		1.63	1.63
Distribution Cable Investment per foot 10		1.19	1.19
Distribution Cable Investment per foot 11		0.76	0.76
Distribution Cable Investment per foot 12		0.63	0.63
Feeder Input		Current Scenario Value	Default Scenario Value
Pole Spacing, feet - 200		200.00	200.00
Pole Spacing, feet - 650		175.00	175.00
Pole Spacing, feet - 850		175.00	175.00
Pole Spacing, feet - 2550		150.00	150.00
Pole Spacing, feet - 5000		150.00	150.00
Pole Spacing, feet - 10000		150.00	150.00
Copper Manhole Materials - 0		1,865.00	1,865.00
Copper Manhole Materials - 5		1,865.00	1,865.00
Copper Manhole Materials - 100		1,865.00	1,865.00
Copper Manhole Materials - 200		1,865.00	1,865.00
Copper Manhole Materials - 650		1,865.00	1,865.00
Copper Manhole Materials - 850		1,865.00	1,865.00
Copper Manhole Materials - 2550		1,865.00	1,865.00
Copper Manhole Materials - 5000		1,865.00	1,865.00
Copper Manhole Materials - 10000		1,865.00	1,865.00
Copper Manhole Frame and Cover - 0		350.00	350.00
Copper Manhole Frame and Cover - 5		350.00	350.00
Copper Manhole Frame and Cover - 100		350.00	350.00
Copper Manhole Frame and Cover - 200		350.00	350.00
Copper Manhole Frame and Cover - 650		350.00	350.00
Copper Manhole Frame and Cover - 850		350.00	350.00
Copper Manhole Frame and Cover - 2550		350.00	350.00
Copper Manhole Frame and Cover - 5000		350.00	350.00
Copper Manhole Frame and Cover - 10000		350.00	350.00
Copper Manhole Site Delivery - 0		125.00	125.00
Copper Manhole Site Delivery - 5		125.00	125.00
Copper Manhole Site Delivery - 100		125.00	125.00
Copper Manhole Site Delivery - 200		125.00	125.00
Copper Manhole Site Delivery - 650		125.00	125.00
Copper Manhole Site Delivery - 850		125.00	125.00
Copper Manhole Site Delivery - 2550		125.00	125.00
Copper Manhole Site Delivery - 5000		125.00	125.00
Copper Manhole Site Delivery - 10000		125.00	125.00
Copper Manhole Excavate and Backfill - 0		2,800	2,800
Copper Manhole Excavate and Backfill - 5		2,800	2,800
Copper Manhole Excavate and Backfill - 100		2,800	2,800
Copper Manhole Excavate and Backfill - 200		2,800	2,800
Copper Manhole Excavate and Backfill - 650		3,200	3,200
Copper Manhole Excavate and Backfill - 850		3,500	3,500
Copper Manhole Excavate and Backfill - 2550		3,500	3,500
Copper Manhole Excavate and Backfill - 5000		5,000	5,000
Copper Manhole Excavate and Backfill - 10000		5,000	5,000
Fiber Pullybox Materials - 0		280.00	280.00
Fiber Pullybox Materials - 5		280.00	280.00
Fiber Pullybox Materials - 100		280.00	280.00
Fiber Pullybox Materials - 200		280.00	280.00
Fiber Pullybox Materials - 650		280.00	280.00
Fiber Pullybox Materials - 850		280.00	280.00
Fiber Pullybox Materials - 2550		280.00	280.00
Fiber Pullybox Materials - 5000		280.00	280.00
Fiber Pullybox Materials - 10000		280.00	280.00
Fiber Pullybox Installation - 0		220.00	220.00

Hatfield Model Release 4.0

User Adjustable Inputs

Distribution Input		Current Scenario Value	Default Scenario Value	Feeder Input		Current Scenario Value	Default Scenario Value
Distribution Riser Cable Size 1		2,400.00	2,400.00	Fiber Pullbox Installation - 5		220.00	220.00
Distribution Riser Cable Size 2		1,800.00	1,800.00	Fiber Pullbox Installation - 100		220.00	220.00
Distribution Riser Cable Size 3		1,200.00	1,200.00	Fiber Pullbox Installation - 200		220.00	220.00
Distribution Riser Cable Size 4		900.00	900.00	Fiber Pullbox Installation - 650		220.00	220.00
Distribution Riser Cable Size 5		600.00	600.00	Fiber Pullbox Installation - 850		220.00	220.00
Distribution Riser Cable Size 6		400.00	400.00	Fiber Pullbox Installation - 2550		220.00	220.00
Distribution Riser Cable Size 7		200.00	200.00	Fiber Pullbox Installation - 5000		220.00	220.00
Distribution Riser Cable Size 8		100.00	100.00	Fiber Pullbox Installation - 10000		220.00	220.00
Distribution Riser Cable Size 9		50.00	50.00				
Distribution Riser Cable Size 10		25.00	25.00				
Distribution Riser Cable Size 11		12.00	12.00				
Distribution Riser Cable Size 12		6.00	6.00				
Distribution Riser Cable Investment per foot 1		20.00	20.00				
Distribution Riser Cable Investment per foot 2		16.00	16.00				
Distribution Riser Cable Investment per foot 3		12.00	12.00				
Distribution Riser Cable Investment per foot 4		10.00	10.00				
Distribution Riser Cable Investment per foot 5		7.75	7.75				
Distribution Riser Cable Investment per foot 6		6.00	6.00				
Distribution Riser Cable Investment per foot 7		4.25	4.25				
Distribution Riser Cable Investment per foot 8		2.50	2.50				
Distribution Riser Cable Investment per foot 9		1.63	1.63				
Distribution Riser Cable Investment per foot 10		1.19	1.19				
Distribution Riser Cable Investment per foot 11		0.76	0.76				
Distribution Riser Cable Investment per foot 12		0.63	0.63				
Distance Multiplier for difficult terrain		1.00	1.00				
Rock Depth Threshold, inches		24.00	24.00				
Hard Rock Placement Multiplier		3.50	3.50				
Soft Rock Placement Multiplier		2.00	2.00				
Sidewalk/Street Fraction		0.20	0.20				
Local RT - Maximum Total Distance		18,000.00	18,000.00				
auto town factor		TRUE	TRUE				
Average Town Factor		0.85	0.85				
Maximum Lot Size, acres		3.00	3.00				
Town Lot Size, acres		3.00	3.00				
SAI Cable Size 1		7,200	7,200				
SAI Cable Size 2		5,400	5,400				
SAI Cable Size 3		3,600	3,600				
SAI Cable Size 4		2,400	2,400				
SAI Cable Size 5		1,800	1,800				
SAI Cable Size 6		1,200	1,200				
SAI Cable Size 7		900	900				
SAI Cable Size 8		600	600				
SAI Cable Size 9		400	400				
SAI Cable Size 10		200	200				
SAI Cable Size 11		100	100				
SAI Cable Size 12		50	50				
SAI Indoor Investment 1		3,456.00	3,456.00				
SAI Indoor Investment 2		2,592.00	2,592.00				
SAI Indoor Investment 3		1,728.00	1,728.00				
SAI Indoor Investment 4		1,152.00	1,152.00				
SAI Indoor Investment 5		864.00	864.00				
SAI Indoor Investment 6		576.00	576.00				

Hatfield Model Release 4.0

User Adjustable Inputs

Distribution Input	Current Scenario		Default Scenario		Feeder Input	Current Scenario		Default Scenario	
	Value		Value			Value		Value	
SAI Indoor Investment 7	432.00		432.00						
SAI Indoor Investment 8	288.00		288.00						
SAI Indoor Investment 9	192.00		192.00						
SAI Indoor Investment 10	96.00		96.00						
SAI Indoor Investment 11	48.00		48.00						
SAI Indoor Investment 12	48.00		48.00						
SAI Outdoor Investment 1	10,000.00		10,000.00						
SAI Outdoor Investment 2	8,200.00		8,200.00						
SAI Outdoor Investment 3	6,000.00		6,000.00						
SAI Outdoor Investment 4	4,300.00		4,300.00						
SAI Outdoor Investment 5	3,400.00		3,400.00						
SAI Outdoor Investment 6	2,400.00		2,400.00						
SAI Outdoor Investment 7	1,900.00		1,900.00						
SAI Outdoor Investment 8	1,400.00		1,400.00						
SAI Outdoor Investment 9	1,000.00		1,000.00						
SAI Outdoor Investment 10	600.00		600.00						
SAI Outdoor Investment 11	350.00		350.00						
SAI Outdoor Investment 12	250.00		250.00						
Repeater Investment, installed	300.00		300.00						
Integrated COT, installed	4,400.00		4,400.00						
Remote Multiplexer Common Equip Inv, installed	5,510.00		5,510.00						
Channel Unit Investment, per subscriber	125.00		125.00						
COT investment, per RT, installed	1,265.00		1,265.00						

Hatfield Model Release 4.0

User Adjustable Inputs

Switching Input		Current Scenario Value	Default Scenario Value	Expense Input		Current Scenario Value	Default Scenario Value
Constant EO Switching Investment Term, small ICO		416.11	416.11	Cost of Debt		0.073	0.077
Constant EO Switching Investment Term, BOC and large ICO		242.73	242.73	Debt Fraction		0.400	0.450
Switch Capacity Real-Time (BHCA) - 1		10,000	10,000	Cost of Equity		0.125	0.119
Switch Capacity Real-Time (BHCA) - 2		50,000	50,000	Average Trunk Utilization		0.300	0.300
Switch Capacity Real-Time (BHCA) - 3		200,000	200,000	Tax Rate		0.393	0.393
Switch Capacity Real-Time (BHCA) - 4		600,000	600,000	Corporate Overhead Factor		0.104	0.104
Switch Capacity Traffic (BHCCS) - 1		30,000	30,000	Other Taxes Factor		0.015	0.015
Switch Capacity Traffic (BHCCS) - 2		150,000	150,000	Billing/Bill Inquiry per line per month		1.220	1.220
Switch Capacity Traffic (BHCCS) - 3		600,000	600,000	Directory Listing per line per month		0.150	0.150
Switch Capacity Traffic (BHCCS) - 4		1,800,000	1,800,000	Forward-looking Network Operations Factor		0.500	0.500
Initial Switch Maximum Equipped Line Size		80,000	80,000	Alternative CO Switching Factor		0.027	0.027
Switch Port Administrative Fill		0.98	0.98	Alternative Circuit Equipment Factor		0.015	0.015
Switch Maximum Processor Occupancy		0.90	0.90	EO Traffic Sensitive Fraction		0.400	0.700
Processor Feature Loading Multiplier - normal		1.20	1.20	Monthly LNP cost, per line		0.250	0.250
Processor Feature Loading Multiplier - heavy business		2.00	2.00	Carrier to Carrier Customer Service, per line per yr		1.69	1.69
Processor Feature Loading Multiplier - business penetration threshold		0.30	0.30	NID Expense per line per year		1.00	1.00
MDF/Protector Investment per line		12.00	12.00	DS-0/DS-1 Terminal Factor		12.4	12.4
Analog Line Circuit Offset for DLC lines, per line		5.00	5.00	DS-1/DS-3 Terminal Factor		9.9	9.9
Switch Installation Multiplier		1.10	1.10	Average Lines per Business Location		4	4
Operator Traffic Fraction		0.02	0.02	Distribution Aerial Shring Fraction - 0		0.50	0.50
Total Interoffice Traffic Fraction		0.65	0.65	Distribution Aerial Shring Fraction - 5		0.33	0.33
Maximum Trunk Occupancy, CCS		27.50	27.50	Distribution Aerial Shring Fraction - 100		0.25	0.25
Trunk Port, per end		100.00	100.00	Distribution Aerial Shring Fraction - 200		0.25	0.25
Entrance Facility Distance, miles		0.50	0.50	Distribution Aerial Shring Fraction - 650		0.25	0.25
Direct-routed Fraction of Local Interoffice		0.98	0.98	Distribution Aerial Shring Fraction - 850		0.25	0.25
POPs per Tandem Location		5.00	5.00	Distribution Aerial Shring Fraction - 2550		0.25	0.25
Tandem-routed Fraction of Total IntraLATA Traffic		0.20	0.20	Distribution Aerial Shring Fraction - 5000		0.25	0.25
Tandem-routed Fraction of Total InterLATA Traffic		0.20	0.20	Distribution Aerial Shring Fraction - 10000		0.25	0.25
Local Call Attempts		10,833,669	10,833,669	Distribution Buried Shring Fraction - 0		0.50	0.33
Call Completion Factor		0.70	0.70	Distribution Buried Shring Fraction - 5		0.50	0.33
IntraLATA Calls Completed		218,791	218,791	Distribution Buried Shring Fraction - 100		0.50	0.33
InterLATA intrastate Calls Completed		160,967	160,967	Distribution Buried Shring Fraction - 200		0.50	0.33
InterLATA interstate Calls Completed		671,563	671,563	Distribution Buried Shring Fraction - 650		0.50	0.33
Local DEMs, thousands		47,023,789	47,023,789	Distribution Buried Shring Fraction - 850		0.50	0.33
Intrastate DEMs, thousands		3,347,185	3,347,185	Distribution Buried Shring Fraction - 2550		0.50	0.33
Interstate DEMs, thousands		7,256,302	7,256,302	Distribution Buried Shring Fraction - 5000		0.50	0.33
Local Business/Residence DEMs		1.10	1.10	Distribution Buried Shring Fraction - 10000		0.50	0.33
Intrastate Business/Residence DEMs		2.00	2.00	Distribution Underground Shring Fraction - 0		1.00	1.00
Interstate Business/Residence DEMs		3.00	3.00	Distribution Underground Shring Fraction - 5		0.50	0.50
BH Fraction of Daily Usage		0.10	0.10	Distribution Underground Shring Fraction - 100		0.50	0.50
Annual to Daily Usage Reduction Factor		270.00	270.00	Distribution Underground Shring Fraction - 200		0.50	0.50
Residential Holding Time Multiplier		1.00	1.00	Distribution Underground Shring Fraction - 650		0.40	0.40
Business Holding Time Multiplier		1.00	1.00	Distribution Underground Shring Fraction - 850		0.33	0.33
Residential Call Attempts per BH		1.30	1.30	Distribution Underground Shring Fraction - 2550		0.33	0.33
Business Call Attempts per BH		3.50	3.50	Distribution Underground Shring Fraction - 5000		0.33	0.33
ICO STP Investment, per line (equipment)		5.50	5.50	Distribution Underground Shring Fraction - 10000		0.33	0.33
ICO Local Tandem Investment, per line		1.90	1.90	Feeder Aerial Shring Fraction - 0		0.50	0.50
ICO OS Tandem Investment, per line		0.80	0.80	Feeder Aerial Shring Fraction - 5		0.33	0.33
ICO SCP Investment per line (equipment)		2.50	2.50	Feeder Aerial Shring Fraction - 100		0.25	0.25
ICO SCP - STP per line (wirecenter)		0.40	0.40	Feeder Aerial Shring Fraction - 200		0.25	0.25
ICO Local Tandem Investment, per line (wirecenter)		2.50	2.50	Feeder Aerial Shring Fraction - 650		0.25	0.25
ICO OS Tandem Investment, per line (wirecenter)		1.00	1.00	Feeder Aerial Shring Fraction - 850		0.25	0.25

Hatfield Model Release 4.0

User Adjustable Inputs

Switching Input		Current Scenario Value	Default Scenario Value	Expense Input		Current Scenario Value	Default Scenario Value
ICO Tandem A Links and C Links per line (wirecenter)		0.30	0.30	Feeder Aerial Shring Fraction - 2550		0.25	0.25
Real-time Limit, BHCA		750,000	750,000	Feeder Aerial Shring Fraction - 5000		0.25	0.25
Port Limit, trunks		100,000	100,000	Feeder Aerial Shring Fraction - 10000		0.25	0.25
Common Equipment Investment		1,000,000	1,000,000	Feeder Underground Shring Fraction - 0		0.50	0.50
Maximum Port Fill		0.90	0.90	Feeder Underground Shring Fraction - 5		0.50	0.50
Maximum Real-time Occupancy		0.90	0.90	Feeder Underground Shring Fraction - 100		0.40	0.40
Common Equipment Intercept Factor		0.50	0.50	Feeder Underground Shring Fraction - 200		0.33	0.33
STP Link Capacity		720	720	Feeder Underground Shring Fraction - 650		0.33	0.33
STP Maximum Link Fill		0.80	0.80	Feeder Underground Shring Fraction - 850		0.33	0.33
Maximum STP Investment, per pair		5,000,000	5,000,000	Feeder Underground Shring Fraction - 2550		0.33	0.33
Minimum STP Investment, per pair		1,000,000	1,000,000	Feeder Underground Shring Fraction - 5000		0.33	0.33
Link Termination, both ends		900	900	Feeder Underground Shring Fraction - 10000		0.33	0.33
Signaling Link Bit Rate		56,000	56,000	Feeder Buried Shring Fraction - 0		0.40	0.40
Link Occupancy		0.40	0.40	Feeder Buried Shring Fraction - 5		0.40	0.40
C Link Cross Section		24.00	24.00	Feeder Buried Shring Fraction - 100		0.40	0.40
ISUP Messages per Interface BHCA		6.00	6.00	Feeder Buried Shring Fraction - 200		0.40	0.40
ISUP Message Length, bytes		25.00	25.00	Feeder Buried Shring Fraction - 650		0.40	0.40
TCAP Messages per transaction		2.00	2.00	Feeder Buried Shring Fraction - 850		0.40	0.40
TCAP Message length, bytes		100.00	100.00	Feeder Buried Shring Fraction - 2550		0.40	0.40
Fraction of BHCA requiring TCAP		0.10	0.10	Feeder Buried Shring Fraction - 5000		0.40	0.40
SCP Investment/Transaction/Second		20,000	20,000	Feeder Buried Shring Fraction - 10000		0.40	0.40
Operator Investment per position		6,400	6,400	Motor Vehicles - Economic Life		8.00	8.24
Operator Maximum Utilization, per position, CCS		32	32	Garage Work Equipment - Economic Life		23.00	12.22
Operator Intervention Factor		10	10	Other Work Equipment - Economic Life		23.00	13.04
Public Telephone Investment, per station		760	760	Buildings - Economic Life		43.00	46.93
Lot Size, Multiplier of Switch Room Size		2	2	Furniture - Economic Life		18.00	15.92
Tandem/EO Wire Center Common Factor		0.40	0.40	Office Support Equipment - Economic Life		12.00	10.78
Power Investment 1		5,000	5,000	Company Comm. Equipment - Economic Life		6.00	7.40
Power Investment 2		10,000	10,000	General Purpose Computer - Economic Life		7.00	6.12
Power Investment 3		20,000	20,000	Digital Electronic Switching - Economic Life		17.00	16.17
Power Investment 4		50,000	50,000	Operator Systems - Economic Life		14.00	9.41
Power Investment 5		250,000	250,000	Digital Circuit Equipment - Economic Life		11.00	10.24
Switch Room Size, sq ft 1		500	500	Public Telephone Terminal Equipment - Economic		6.00	7.60
Switch Room Size, sq ft 2		1,000	1,000	Poles - Economic Life		37.00	30.25
Switch Room Size, sq ft 3		2,000	2,000	Aerial Cable - metallic - Economic Life		20.00	20.61
Switch Room Size, sq ft 4		5,000	5,000	Aerial Cable - non metallic - Economic Life		30.00	26.14
Switch Room Size, sq ft 5		10,000	10,000	Underground Cable - metallic - Economic Life		25.00	25.00
Construction Investment, sq ft 1		75.00	75.00	Underground Cable - non metallic - Economic Life		30.00	26.45
Construction Investment, sq ft 2		85.00	85.00	Buried - metallic - Economic Life		21.00	21.57
Construction Investment, sq ft 3		100.00	100.00	Buried - non metallic - Economic Life		30.00	25.91
Construction Investment, sq ft 4		125.00	125.00	Intrabuilding Cable - metallic - Economic Life		22.00	18.18
Construction Investment, sq ft 5		150.00	150.00	Intrabuilding Cable - non metallic - Economic Life		22.00	26.11
Land Investment, sq ft 1		5	5	Conduit Systems - Economic Life		65.00	56.19
Land Investment, sq ft 2		8	8	Motor Vehicles - Net Salvage %		0.1600	0.1121
Land Investment, sq ft 3		10	10	Garage Work Equipment - Net Salvage %		-0.0100	-0.1071
Land Investment, sq ft 4		15	15	Other Work Equipment - Net Salvage %		-0.0100	0.0321
Land Investment, sq ft 5		20	20	Buildings - Net Salvage %		0.0100	0.0187
OC-48 ADM, installed, 48 DS-3s		50,000	50,000	Furniture - Net Salvage %		0.0900	0.0688
OC-48 ADM, installed, 12 DS-3s		40,000	40,000	Office Support Equipment - Net Salvage %		0.2800	0.0691
OC-3/DS-1 Terminal Multiplexer, installed, 84 DS-1s		26,000	26,000	Company Comm. Equipment - Net Salvage %		0.2800	0.0376
Investment per 7 DS-1s		500	500	General Purpose Computer - Net Salvage %		0.0200	0.0373
Number of Fibers		24	24	Digital Electronic Switching - Net Salvage %		0.0400	0.0297

Hatfield Model Release 4.0

User Adjustable Inputs

Switching Input	Current Scenario		Default Scenario		Expense Input	Current Scenario		Default Scenario	
	Value		Value			Value		Value	
Pigtails, per strand	60		60		Operator Systems - Net Salvage %	0.0500		-0.0082	
Optical Distribution Panel	1,000		1,000		Digital Circuit Equipment - Net Salvage %	0.0000		-0.0169	
EF&I, per hour	55		55		Public Telephone Terminal Equipment - Net Salvage %	0.2000		0.0797	
EF&I hours	32		32		Poles - Net Salvage %	-0.4800		-0.8898	
Regional Labor Factor	1		1		Aerial Cable - metallic - Net Salvage %	-0.1500		-0.2303	
Channel Bank Investment, per 24 lines	5,000		5,000		Aerial Cable - non metallic - Net Salvage %	-0.2000		-0.1753	
Fraction of SA Lines Requiring Multiplexing	-		-		Underground Cable - metallic - Net Salvage %	-0.0800		-0.1826	
Regenerator, installed	15,000		15,000		Underground Cable - non metallic - Net Salvage %	-0.2000		-0.1458	
Regenerator spacing, miles	40		40		Buried - metallic - Net Salvage %	-0.0500		-0.0839	
DCS installed, per DS-3	30,000		30,000		Buried - non metallic - Net Salvage %	-0.0900		-0.0858	
Transmission Terminal Fill (DS-0 level)	0.90		0.90		Intrabuilding Cable - metallic - Net Salvage %	-0.1000		-0.1574	
Fiber Investment, fiber cable	3.50		3.50		Intrabuilding Cable - non metallic - Net Salvage %	-0.1000		-0.1052	
Fiber, number of strands per ADM	4.00		4.00		Conduit Systems - Net Salvage %	-0.0500		-0.1034	
Fiber Investment, buried fraction	0.60		0.60						
Fiber Investment, buried placement	1.77		1.77						
Fiber Investment, buried sheath addition	0.20		0.20						
Fiber Investment, conduit	0.60		0.60						
Fiber, spare tubes per route	1.00		1.00						
Fiber Investment, conduit placement	16.40		16.40						
Fiber, pullbox spacing	2,000.00		2,000.00						
Fiber Investment, pullbox investment	500.00		500.00						
Fiber, aerial fraction	0.20		0.20						
Fiber, pole spacing, feet	150.00		150.00						
Fiber Investment, pole material	201.00		201.00						
Fiber Investment, pole labor (basic)	216.00		216.00						
Fraction Poles and Buried/Underground Placement Common with Fee	0.75		0.75						
Fraction of Aerial Structure Assigned to Telephone	0.33		0.33						
Fraction of Buried Structure Assigned to Telephone	0.33		0.33						
Fraction of Underground Structure Assigned to Telephone	0.33		0.33						
Multiplicative EO Switching Investment Term	-14.922		-14.922						

Hattfield Model Release 4.0
User Adjustable Inputs

Switching Input	Current		Default		Expense Input	Current		Default	
	Scenario	Value	Scenario	Value		Scenario	Value	Scenario	Value

Hatfield Model Release 4.0
User Adjustable Inputs

Switching Input	Current Scenario		Default Scenario		Expense Input	Current Scenario		Default Scenario	
	Value		Value			Value		Value	