

HAI Model Release 5.0a - Expense Module Density Zone Level Calculations																																
density zone (lines/sq mi)	feeder type	total lines	business lines	residential lines	special access lines	public lines	single line business lines	households	copper feeder cable u/g	copper feeder cable buried	copper feeder cable aerial	fiber feeder cable u/g	fiber feeder cable buried	fiber feeder cable aerial	feeder conduit	feeder manholes	copper feeder u/g placement	fiber feeder u/g placement	copper feeder buried placement	fiber feeder buried placement												
0	DLC	86	-	86	-	-	-	86	\$	-	\$	-	\$	-	\$	184,283	\$	9,075	\$	-	\$	115,320										
5	DLC	581	8	572	1	0	1	564	\$	-	\$	-	\$	-	\$	799,016	\$	39,461	\$	592	\$	163	\$	-	\$	18,457	\$	-	\$	137,056		
100	DLC	424	142	255	23	4	9	253	\$	-	\$	-	\$	-	\$	44,473	\$	2,161	\$	-	\$	278	\$	-	\$	31,409	\$	-	\$	51,329		
200	DLC	1,323	279	990	45	8	20	981	\$	-	\$	-	\$	-	\$	14,025	\$	136	\$	7	\$	6,720	\$	867	\$	-	\$	97,912	\$	-	\$	160,008
650	DLC																															
850	DLC																															
2550	DLC																															
5000	DLC																															
10000	DLC																															
0	non-DLC																															
5	non-DLC	1,671	446	1,139	73	13	37	1,092	\$	-	\$	111,502	\$	5,643	\$	-	\$	-	\$	-	\$	945	\$	-	\$	-	\$	3,205	\$	-	\$	
100	non-DLC																															
200	non-DLC																															
650	non-DLC																															
850	non-DLC																															
2550	non-DLC																															
5000	non-DLC																															
10000	non-DLC																															
Totals/Avg		4,085	874	3,043	142	26	67	2,975	\$	-	\$	111,502	\$	5,643	\$	14,025	\$	1,027,908	\$	50,704	\$	7,313	\$	2,253	\$	-	\$	147,779	\$	3,205	\$	463,714

HA

density zone (lines/sq mi)	feeder type	feeder pole inv	distribution cable underground	distribution cable buried	distribution cable aerial	distribution conduit	distribution conduit placement	distribution buried placement	distribution poles	calc copper feeder fill	calc distribution fill	calc "mainframe fill"	DLC inv w/site	SAI inv	terminal inv	drop inv	NID inv	feeder distance
0	DLC	\$ 3,141	\$ -	\$ 89,216	\$ 4,515	\$ -	\$ -	\$ 140,094	\$ 8,757	0.00%	31.69%	0.00%	\$ 65,700	\$ 1,600	\$ 7,243	\$ 9,179	\$ 2,483	62,376
5	DLC	\$ 11,069	\$ -	\$ 600,956	\$ 30,413	\$ -	\$ -	\$ 843,115	\$ 49,206	0.00%	31.54%	0.00%	\$ 293,200	\$ 7,750	\$ 48,790	\$ 60,704	\$ 16,523	248,598
100	DLC	\$ 3,046	\$ -	\$ 233,602	\$ 11,822	\$ -	\$ -	\$ 161,586	\$ 10,425	0.00%	23.52%	0.00%	\$ 108,554	\$ 3,400	\$ 17,850	\$ 17,332	\$ 9,839	18,009
200	DLC	\$ 9,494	\$ 30,943	\$ 273,538	\$ 15,472	\$ 13,492	\$ 184,368	\$ 338,636	\$ 14,178	0.00%	55.11%	0.00%	\$ 217,680	\$ 8,200	\$ 55,513	\$ 36,586	\$ 33,388	9,094
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC																	
5	non-DLC	\$ 18,675	\$ -	\$ 595,988	\$ 30,161	\$ -	\$ -	\$ 317,677	\$ 17,097	58.62%	29.31%	58.62%	\$ -	\$ 10,100	\$ 140,287	\$ 138,342	\$ 39,704	5,875
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ 45,424	\$ 30,943	\$ 1,793,300	\$ 92,383	\$ 13,492	\$ 184,368	\$ 1,801,108	\$ 99,663				\$ 685,134	\$ 31,050	\$ 269,684	\$ 262,143	\$ 101,938	343,951

HA

density zone (lines/sq mi)	feeder type	total distribution distance	DLC lines	end office switching	MDF/protector inv	end office wire center	land	local tandem switching	local tandem wire center	OS tandem switching	OS tandem wire center	OS trunks	operator position	common transport, u/g	common transport, buried	common transport, aerial	common transport, poles	common transport, conduit															
0	DLC	83,315	86	\$	22,131	\$	-	\$	3,501	\$	1,328	\$	164	\$	216	\$	69	\$	86	\$	4,916	\$	128	\$	-	\$	24,544	\$	744	\$	499	\$	-
5	DLC	501,407	581	\$	148,758	\$	-	\$	23,533	\$	6,349	\$	1,102	\$	1,450	\$	464	\$	580	\$	22,089	\$	858	\$	-	\$	112,890	\$	3,463	\$	2,239	\$	-
100	DLC	89,296	424	\$	102,903	\$	-	\$	16,279	\$	1,823	\$	762	\$	1,003	\$	321	\$	401	\$	2,047	\$	594	\$	-	\$	17,077	\$	493	\$	336	\$	-
650	DLC	112,430	1,323	\$	327,588	\$	-	\$	51,823	\$	5,802	\$	2,427	\$	3,193	\$	1,022	\$	1,277	\$	6,516	\$	1,890	\$	-	\$	53,233	\$	1,538	\$	1,048	\$	-
850	DLC																																
2550	DLC																																
5000	DLC																																
10000	DLC																																
0	non-DLC	188,925	-	\$	410,015	\$	-	\$	64,863	\$	9,698	\$	3,037	\$	3,996	\$	1,279	\$	1,598	\$	19,808	\$	2,365	\$	-	\$	123,070	\$	3,648	\$	2,464	\$	-
5	non-DLC																																
100	non-DLC																																
200	non-DLC																																
650	non-DLC																																
850	non-DLC																																
2550	non-DLC																																
5000	non-DLC																																
10000	non-DLC																																
Totals/Avg		975,372	2,414	\$	1,011,396	\$	-	\$	160,000	\$	25,000	\$	7,492	\$	9,858	\$	3,154	\$	3,943	\$	55,376	\$	5,834	\$	-	\$	330,813	\$	9,886	\$	6,587	\$	-

HA

density zone (lines/sq mi)	feeder type	common transport, manholes	common transmission terminal inv	direct transport, u/g	direct transport, buried	direct transport, aerial	direct transport, poles	direct transport, conduit	direct transport, manholes	direct transmission terminal inv	dedicated transport, u/g	dedicated transport, buried	dedicated transport, aerial	dedicated transport, poles	dedicated transport, conduit	dedicated transport, manholes	dedicated transmission terminal inv	prop local direct trunks
0	DLC		\$ 2,177		\$ 10,671	\$ 323	\$ 217	\$ -	\$ -	\$ 947		\$ 5,260	\$ 159	\$ 107	\$ -	\$ -	\$ 467	1
5	DLC	\$ -	\$ 18,818	\$ -	\$ 47,259	\$ 1,453	\$ 938	\$ -	\$ -	\$ 6,395	\$ -	\$ 19,130	\$ 573	\$ 379	\$ -	\$ -	\$ 9,403	7
100	DLC																	
200	DLC	\$ -	\$ 16,728	\$ -	\$ 4,321	\$ 125	\$ 85	\$ -	\$ -	\$ 4,232	\$ -	\$ 14,745	\$ 426	\$ 290	\$ -	\$ -	\$ 14,444	3
650	DLC																	
850	DLC	\$ -	\$ 52,145	\$ -	\$ 13,469	\$ 389	\$ 265	\$ -	\$ -	\$ 13,193	\$ -	\$ 45,965	\$ 1,328	\$ 905	\$ -	\$ -	\$ 45,025	10
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC																	
5	non-DLC	\$ -	\$ 62,644	\$ -	\$ 42,954	\$ 1,281	\$ 864	\$ -	\$ -	\$ 16,898	\$ -	\$ 64,067	\$ 1,871	\$ 1,270	\$ -	\$ -	\$ 50,347	14
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avgs		\$ -	\$ 152,512	\$ -	\$ 118,673	\$ 3,571	\$ 2,368	\$ -	\$ -	\$ 41,665	\$ -	\$ 149,167	\$ 4,357	\$ 2,951	\$ -	\$ -	\$ 119,686	35

HA																Total Investment
density zone (lines/sq mi)	feeder type	prop local tandem trunks	prop intraLATA direct trunks	prop intraLATA tandem trunks	prop access dedicated trunks	prop access tandem trunks	prop operator trunks	SCP investment	SCP wire center inv	STP inv	signaling link inv	total public telephone inv	total residential annual DEMs	total business annual DEMs		
0	DLC	1	0	2	1	4	1	216 \$	35 \$	475 \$	2,484 \$	146	1,318,459	-	722,614	
5	DLC	2	1	10	13	23	5	1,450 \$	232 \$	3,190 \$	10,742 \$	1,646	8,742,936	171,056	3,401,855	
100	DLC															
200	DLC	0	0	5	18	15	2	1,003 \$	160 \$	2,206 \$	376 \$	2,333	3,900,236	3,195,600	912,619	
650	DLC														-	
850	DLC	2	0	16	55	47	6	3,193 \$	511 \$	7,024 \$	1,198 \$	7,427	15,128,620	6,286,643	2,160,556	
2550	DLC														-	
5000	DLC														-	
10000	DLC														-	
0	non-DLC														-	
5	non-DLC	3	1	22	64	60	9	3,996 \$	639 \$	8,792 \$	7,755 \$	8,369	17,411,129	10,052,321	2,346,915	
100	non-DLC														-	
200	non-DLC														-	
650	non-DLC														-	
850	non-DLC														-	
2550	non-DLC														-	
5000	non-DLC														-	
10000	non-DLC														-	
Totals/Avg		8	3	55	151	149	24	9,858 \$	1,577 \$	21,687 \$	22,554 \$	19,922	46,501,381	19,705,619	9,544,559	

Universal Service Calculation Sheet - monthly costs per line

Missouri
Citizens Telephone Co - Missouri

	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	\$ 168.38	\$ 44.44	\$ -	\$ 37.52	\$ -	\$ 24.78	\$ -	\$ -	\$ -	\$ 40.08
Port	2.38	2.38	-	2.38	-	2.38	-	-	-	2.38
End office usage	3.16	3.16	-	3.16	-	3.16	-	-	-	3.16
Signaling	0.07	0.07	-	0.07	-	0.07	-	-	-	0.07
Transport	1.03	1.03	-	1.03	-	1.03	-	-	-	1.03
Local retail costs										
Billing/bill inquiries	\$ 2.74	\$ 2.74	\$ -	\$ 2.74	\$ -	\$ 2.74	\$ -	\$ -	\$ -	\$ 2.74
Directory listing	-	-	-	-	-	-	-	-	-	-
LNP expense (when available)	0.30	0.30	-	0.30	-	0.30	-	-	-	0.30
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Basic Local Service										
Avg monthly cost per line	\$ 178.06	\$ 54.12	\$ -	\$ 47.20	\$ -	\$ 34.47	\$ -	\$ -	\$ -	\$ 49.76
@ Residence usage per line	\$ 177.90	\$ 53.96	\$ -	\$ 47.04	\$ -	\$ 34.30	\$ -	\$ -	\$ -	\$ 50.50
@ Business usage per line	\$ 178.61	\$ 54.67	\$ -	\$ 47.75	\$ -	\$ 35.02	\$ -	\$ -	\$ -	\$ 47.28
Total switched lines	86	2,178	-	401	-	1,277	-	-	-	3,943
Primary residence lines	86	1,656	-	253	-	981	-	-	-	2,975
Secondary residence lines	1	55	-	2	-	9	-	-	-	68
Single line business lines	-	38	-	9	-	20	-	-	-	67
Multiline business lines	-	416	-	132	-	259	-	-	-	807
Public lines	-	14	-	4	-	8	-	-	-	26
FEDERAL FUND ANALYSIS										
Annual Support										
for line types:	Specify	Bench								
Primary residence lines	X	\$31.00	\$ 150,750	\$ 456,228	\$ -	\$ 48,690	\$ -	\$ 38,874	\$ -	\$ 694,542
Secondary residence lines		\$31.00	\$ 1,342	\$ 15,258	\$ -	\$ 433	\$ -	\$ 363	\$ -	\$ 17,396
Single line business lines	X	\$51.00	\$ 0	\$ 1,658	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,658
Multiline business lines		\$51.00	\$ 0	\$ 18,308	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,308
Public lines		\$51.00	\$ 0	\$ 599	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 599
Support cost if all lines supported			\$ 152,092	\$ 492,051	\$ -	\$ 49,124	\$ -	\$ 39,237	\$ -	\$ 732,503
Total annual support for specified lines										
@25% Federal allocation			\$ 37,687	\$ 114,472	\$ -	\$ 12,173	\$ -	\$ 9,718	\$ -	\$ 174,050
@Implied 75% State allocation			\$ 113,062	\$ 343,415	\$ -	\$ 36,518	\$ -	\$ 29,155	\$ -	\$ 522,150

Total Annual Support for Primary Residence Lines at Pre-Selected Monthly Benchmarks

\$20.00	\$ 162,038	\$ 674,837	\$ -	\$ 82,083	\$ -	\$ 168,346	\$ -	\$ -	\$ -	\$ 1,087,304
\$30.00	\$ 151,776	\$ 476,102	\$ -	\$ 51,726	\$ -	\$ 50,644	\$ -	\$ -	\$ -	\$ 730,247
\$40.00	\$ 141,514	\$ 277,367	\$ -	\$ 21,369	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 440,250
\$50.00	\$ 131,251	\$ 78,632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 209,884
\$60.00	\$ 120,989	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,989
\$70.00	\$ 110,727	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,727
\$80.00	\$ 100,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,465

STATE FUND ANALYSIS																					
Annual Support for line types:		Specify	Bench mark																		
Primary residence lines	X	\$31.00	\$	150,750	\$	456,228	\$	-	\$	48,690	\$	-	\$	38,874	\$	-	\$	-	\$	694,542	
Secondary residence lines		\$31.00	\$	1,342	\$	15,258	\$	-	\$	433	\$	-	\$	363	\$	-	\$	-	\$	17,396	
Single line business lines	X	\$51.00	\$	0	\$	1,658	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	1,658	
Multiline business lines		\$51.00	\$	0	\$	18,308	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	18,308	
Public lines		\$51.00	\$	0	\$	599	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	599	
Support cost if all lines supported			\$	152,092	\$	492,051	\$	-	\$	49,124	\$	-	\$	39,237	\$	-	\$	-	\$	732,503	
<u>Total annual support for specified lines</u>				\$	150,750	\$	457,887	\$	-	\$	48,690	\$	-	\$	38,874	\$	-	\$	-	\$	696,200
@75% State allocation				\$	113,062	\$	343,415	\$	-	\$	36,518	\$	-	\$	29,155	\$	-	\$	-	\$	522,150
@Implied 25% Federal allocation				\$	37,687	\$	114,472	\$	-	\$	12,173	\$	-	\$	9,718	\$	-	\$	-	\$	174,050

TOTAL FUND ANALYSIS																		
25% Federal allocation from Federal Fund Analysis	\$	37,687	\$	114,472	\$	-	\$	12,173	\$	-	\$	9,718	\$	-	\$	-	\$	174,050
75% State allocation from State Fund Analysis	\$	113,062	\$	343,415	\$	-	\$	36,518	\$	-	\$	29,155	\$	-	\$	-	\$	522,150
Total Federal + State fund	\$	150,750	\$	457,887	\$	-	\$	48,690	\$	-	\$	38,874	\$	-	\$	-	\$	696,200

Module release date: 11/4/1997

COST OF NETWORK ELEMENTS

Missouri
Citizens Telephone Co - Missouri

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	\$ 650	\$ 14,517	\$ -	\$ 2,513	\$ -	\$ 8,632	\$ -	\$ -	\$ -	\$ 26,312
Unit Cost/month	0.63	0.54	-	0.49	-	0.54	-	-	-	0.54
Loop Distribution (DLC)										
Annual Cost	\$ 70,035	\$ 442,012	\$ -	\$ 120,711	\$ -	\$ 244,805	\$ -	\$ -	\$ -	\$ 877,562
Unit Cost/month	67.64	63.38	-	23.71	-	15.43	-	-	-	30.29
Loop Distribution (non-DLC)										
Annual Cost	\$ -	\$ 334,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 334,446
Unit Cost/month	-	16.68	-	-	-	-	-	-	-	16.68
Loop Distribution (all)										
Annual Cost	\$ 70,035	\$ 776,458	\$ -	\$ 120,711	\$ -	\$ 244,805	\$ -	\$ -	\$ -	\$ 1,212,008
Unit Cost/month	67.64	28.73	-	23.71	-	15.43	-	-	-	24.72
Loop Concentration (DLC)										
Annual Cost	\$ 19,015	\$ 85,148	\$ -	\$ 31,669	\$ -	\$ 63,902	\$ -	\$ -	\$ -	\$ 199,733
Unit Cost/month	18.37	12.21	-	6.22	-	4.03	-	-	-	6.89
Loop Concentration (non-DLC)										
Annual Cost	\$ -	\$ 2,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,446
Unit Cost/month	-	0.12	-	-	-	-	-	-	-	0.12
Loop Concentration (all)										
Annual Cost	\$ 19,015	\$ 87,594	\$ -	\$ 31,669	\$ -	\$ 63,902	\$ -	\$ -	\$ -	\$ 202,179
Unit Cost/month	18.37	3.24	-	6.22	-	4.03	-	-	-	4.12
Loop Feeder (DLC)										
Annual Cost	\$ 81,810	\$ 263,926	\$ -	\$ 33,025	\$ -	\$ 69,593	\$ -	\$ -	\$ -	\$ 448,354
Unit Cost/month	79.02	37.84	-	6.49	-	4.39	-	-	-	15.48
Loop Feeder (non-DLC)										
Annual Cost	\$ -	\$ 39,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,042
Unit Cost/month	-	1.95	-	-	-	-	-	-	-	1.95
Loop Feeder (all)										
Annual Cost	\$ 81,810	\$ 302,968	\$ -	\$ 33,025	\$ -	\$ 69,593	\$ -	\$ -	\$ -	\$ 487,396
Unit Cost/month	79.02	11.21	-	6.49	-	4.39	-	-	-	9.94
Total Loop (DLC)										
Annual Cost	\$ 171,509	\$ 794,832	\$ -	\$ 187,917	\$ -	\$ 386,932	\$ -	\$ -	\$ -	\$ 1,541,191
Unit Cost/month	165.65	113.97	-	36.91	-	24.38	-	-	-	53.20
Total Loop (non-DLC)										
Annual Cost	\$ -	\$ 386,705	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 386,705
Unit Cost/month	-	19.28	-	-	-	-	-	-	-	19.28
Total Loop (all)										
Annual Cost	\$ 171,509	\$ 1,181,537	\$ -	\$ 187,917	\$ -	\$ 386,932	\$ -	\$ -	\$ -	\$ 1,927,896
Unit Cost/month	165.65	43.72	-	36.91	-	24.38	-	-	-	39.33
Total lines	86	2,252	-	424	-	1,323	-	-	-	4,085
Total lines served by DLC	86	581	-	424	-	1,323	-	-	-	2,414

	Annual Cost	Units	Unit Cost
End office switching	\$ 369,877		
Line Port	110,963	3,943 switched lines	\$ 2.35 per line/month
Non-Line Port	258,914	45,762,507 actual minutes	\$ 0.00566 per actual minute (for rate per DEM, see "Cost detail" sheet)
Signaling network elements	\$ 16,391		
Links	6,640	6 links	\$ 93.97 per link per month
STP	6,385	25,911,865 TCAP+ISUP msgs	\$ 0.00025 per signaling message
SCP	3,366	2,629,000 TCAP queries	\$ 0.00128 per query
Transport network elements			
<i>Dedicated</i>			
Sw+Sp Transport	\$ 43,824	151 trunks	\$ 24.27 per DS-0 equivalent per month
Switched	2,377	8 trunks	\$ 0.00242 per minute
Special	41,447	142 trunks	
Transmission Terminal	36,312	151 trunks	\$ 20.11 per DS-0 equivalent per month
			\$ 0.00200 per minute
			\$ 0.00442 total per minute
<i>Common</i>			
Transport	\$ 96,392	19,832,693 minutes	\$ 0.00377 per minute per leg (orig or term)
Transmission Terminal	46,170	19,832,693 minutes	\$ 0.00181 per minute
			\$ 0.00558 total per minute
<i>Direct</i>			
Transport	\$ 34,481	2,662,983 minutes	\$ 0.01295 per minute
Transmission Terminal	12,593	2,662,983 minutes	\$ 0.00473 per minute
			\$ 0.01768 total per minute
Tandem switch	\$ 5,948	17,304,949 minutes	\$ 0.00034 per minute
Operator systems	\$ 32,830		
Public Telephones	\$ 10,583		
Total (w/ Public)	\$ 2,633,297		
Total cost of switched network elements (w/o Public)	\$ 52.41	per line/month	

	interconnected at			
	end office	tandem		wtd average
Local interconnection				
EO switching	\$ 0.00566	\$ 0.00566		
ISUP	\$ 0.00061	\$ 0.00061		
Common Transport	\$ -	\$ 0.00558		
Tandem Switching	\$ -	\$ 0.00034		
TOTAL	\$ 0.00627	\$ 0.01219	n/a	

IXC switched access				
EO switching	\$ 0.00566	\$ 0.00566		
ISUP	\$ 0.00061	\$ 0.00061		
Dedicated Transport	\$ 0.00442	\$ 0.00442		
Common Transport	\$ -	\$ 0.00558		
Tandem Switching	\$ -	\$ 0.00034		
TOTAL	\$ 0.01069	\$ 0.01661	\$ 0.01661	

Signaling detail				
cost per 800 call attempt (TCAP)	\$ 0.0031			
ISUP cost/transaction	\$ 0.00319			
ISUP cost/completion	0.0046			
IXC switched access MOU/comp	7.45			
ISUP cost/min	\$ 0.000611			
D link per month	\$ -			

Switching detail

The HAI Model engineers switch capacity based on the number of times calls have to pass through a switch fabric. For intraswitch calls, this is once. Because some rate structures for unbundled switching may impose two switch charges -- even when the call only passes through the switch once, the appropriate way to calculate the level of such switch charges is to divide the total usage cost of switching by DEMs (rather than actual switched minutes), because two DEMs are counted even when a call originates and terminates on the same switch.

Switch non-line port annual cost	258,914
Total DEMs	66,207,000
Cost per DEM \$	0.00391

Dedicated Transport Costs Per Trunk

DS-0 per month	
Transport per month	\$ 24.27
Terminal per month *	\$ 249.32
TOTAL	\$ 273.58

DS-1 per month	
Transport per month	\$ 582.38
Terminal per month	\$ 482.55
TOTAL	\$ 1,064.93

DS-3 per month	
Transport per month	\$ 16,306.66
Terminal per month	\$ 1,364.77
TOTAL	\$ 17,671.43

Trunk Port Costs

per trunk port (DS-0 equivalent) per month	\$ 3.05
per trunk port minute	\$ 0.000303

total EO usage per minute	\$ 0.005658
trk port/min	\$ 0.000303
other	\$ 0.005354

	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	weighted average
calculated distribution fill (DLC)	31.7%	31.5%	0.0%	23.5%	0.0%	55.1%	0.0%	0.0%	0.0%	43.0%
calculated distribution fill (non-DLC)	0.0%	29.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.3%
weighted average										37.4%

Per DS0 Transport Calculations

Entrance Facility Investment per Line	\$ -
Total Dedicated Terminal Investment	119,686
Total Lines	4,085
Total Dedicated Terminal Investment per line	\$ 29
Entrance Facility percent to total	\$ -
Terminal Investment per DS-0	\$ 795
Transport Investment per DS-0	\$ 1,040

Network-Related Expenses

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
NID										
Annual Capital Cost	\$ 397	\$ 8,997	\$ -	\$ 1,574	\$ -	\$ 5,343	\$ -	\$ -	\$ -	16,312
Network Expenses	\$ 86	\$ 1,769	\$ -	\$ 288	\$ -	\$ 1,051	\$ -	\$ -	\$ -	3,194
Direct expense	\$ 483	\$ 10,767	\$ -	\$ 1,863	\$ -	\$ 6,393	\$ -	\$ -	\$ -	19,506
Investment	\$ 2,483	\$ 56,228	\$ -	\$ 9,839	\$ -	\$ 33,388	\$ -	\$ -	\$ -	101,938
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 164	\$ 3,652	\$ -	\$ 632	\$ -	\$ 2,169	\$ -	\$ -	\$ -	6,616
Total	\$ 647	\$ 14,419	\$ -	\$ 2,495	\$ -	\$ 8,562	\$ -	\$ -	\$ -	26,122
with carrier-to-carrier	\$ 647	\$ 14,454	\$ -	\$ 2,502	\$ -	\$ 8,595	\$ -	\$ -	\$ -	26,198
Distribution (DLC)										
Annual Capital Cost	\$ 41,833	\$ 263,497	\$ -	\$ 71,799	\$ -	\$ 151,331	\$ -	\$ -	\$ -	528,460
Network Expenses	\$ 10,197	\$ 64,331	\$ -	\$ 17,687	\$ -	\$ 29,970	\$ -	\$ -	\$ -	122,184
Direct expense	\$ 52,030	\$ 327,828	\$ -	\$ 89,486	\$ -	\$ 181,301	\$ -	\$ -	\$ -	650,644
Investment	\$ 259,004	\$ 1,633,184	\$ -	\$ 447,404	\$ -	\$ 955,637	\$ -	\$ -	\$ -	3,295,229
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 17,648	\$ 111,198	\$ -	\$ 30,353	\$ -	\$ 61,497	\$ -	\$ -	\$ -	220,697
Total	\$ 69,679	\$ 439,026	\$ -	\$ 119,839	\$ -	\$ 242,797	\$ -	\$ -	\$ -	871,341
with carrier-to-carrier	\$ 69,731	\$ 440,096	\$ -	\$ 120,187	\$ -	\$ 243,743	\$ -	\$ -	\$ -	873,757
Distribution (non-DLC)										
Annual Capital Cost	\$ -	\$ 199,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	199,126
Network Expenses	\$ -	\$ 48,924	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,924
Direct expense	\$ -	\$ 248,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	248,050
Investment	\$ -	\$ 1,239,552	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,239,552
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ -	\$ 84,138	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	84,138
Total	\$ -	\$ 332,187	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	332,187
with carrier-to-carrier	\$ -	\$ 332,996	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	332,996
Distribution (all)										
Annual Capital Cost	\$ 41,833	\$ 462,623	\$ -	\$ 71,799	\$ -	\$ 151,331	\$ -	\$ -	\$ -	727,586
Network Expenses	\$ 10,197	\$ 113,255	\$ -	\$ 17,687	\$ -	\$ 29,970	\$ -	\$ -	\$ -	171,108
Direct expense	\$ 52,030	\$ 575,878	\$ -	\$ 89,486	\$ -	\$ 181,301	\$ -	\$ -	\$ -	898,694
Investment	\$ 259,004	\$ 2,872,736	\$ -	\$ 447,404	\$ -	\$ 955,637	\$ -	\$ -	\$ -	4,534,781
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 17,648	\$ 195,336	\$ -	\$ 30,353	\$ -	\$ 61,497	\$ -	\$ -	\$ -	304,835
Total	\$ 69,679	\$ 771,214	\$ -	\$ 119,839	\$ -	\$ 242,797	\$ -	\$ -	\$ -	1,203,529
with carrier-to-carrier	\$ 69,731	\$ 773,092	\$ -	\$ 120,187	\$ -	\$ 243,743	\$ -	\$ -	\$ -	1,206,754
Concentrator (DLC)										
Annual Capital Cost	\$ 13,090	\$ 58,514	\$ -	\$ 21,749	\$ -	\$ 43,834	\$ -	\$ -	\$ -	137,187
Network Expenses	\$ 1,037	\$ 4,638	\$ -	\$ 1,728	\$ -	\$ 3,491	\$ -	\$ -	\$ -	10,893
Direct expense	\$ 14,127	\$ 63,152	\$ -	\$ 23,477	\$ -	\$ 47,325	\$ -	\$ -	\$ -	148,080
Investment	\$ 67,300	\$ 300,950	\$ -	\$ 111,954	\$ -	\$ 225,880	\$ -	\$ -	\$ -	706,084
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 4,792	\$ 21,421	\$ -	\$ 7,963	\$ -	\$ 16,053	\$ -	\$ -	\$ -	50,229
Total	\$ 18,918	\$ 84,573	\$ -	\$ 31,440	\$ -	\$ 63,378	\$ -	\$ -	\$ -	198,309
with carrier-to-carrier	\$ 18,932	\$ 84,779	\$ -	\$ 31,531	\$ -	\$ 63,625	\$ -	\$ -	\$ -	198,867
Concentrator (non-DLC)										
Annual Capital Cost	\$ -	\$ 1,616	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,616
Network Expenses	\$ -	\$ 198	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	198
Direct expense	\$ -	\$ 1,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,814
Investment	\$ -	\$ 10,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,100
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ -	\$ 615	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	615
Total	\$ -	\$ 2,430	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,430
with carrier-to-carrier	\$ -	\$ 2,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,435
Concentrator (all)										
Annual Capital Cost	\$ 13,090	\$ 60,130	\$ -	\$ 21,749	\$ -	\$ 43,834	\$ -	\$ -	\$ -	138,803
Network Expenses	\$ 1,037	\$ 4,836	\$ -	\$ 1,728	\$ -	\$ 3,491	\$ -	\$ -	\$ -	11,091
Direct expense	\$ 14,127	\$ 64,966	\$ -	\$ 23,477	\$ -	\$ 47,325	\$ -	\$ -	\$ -	149,895
Investment	\$ 67,300	\$ 311,050	\$ -	\$ 111,954	\$ -	\$ 225,880	\$ -	\$ -	\$ -	716,184
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 4,792	\$ 22,036	\$ -	\$ 7,963	\$ -	\$ 16,053	\$ -	\$ -	\$ -	50,844
Total	\$ 18,918	\$ 87,003	\$ -	\$ 31,440	\$ -	\$ 63,378	\$ -	\$ -	\$ -	200,738
with carrier-to-carrier	\$ 18,932	\$ 87,214	\$ -	\$ 31,531	\$ -	\$ 63,625	\$ -	\$ -	\$ -	201,303
Feeder (DLC)										
Annual Capital Cost	\$ 48,429	\$ 156,345	\$ -	\$ 20,443	\$ -	\$ 44,455	\$ -	\$ -	\$ -	269,671
Network Expenses	\$ 12,348	\$ 39,402	\$ -	\$ 4,040	\$ -	\$ 7,086	\$ -	\$ -	\$ -	62,876
Direct expense	\$ 60,778	\$ 195,747	\$ -	\$ 24,482	\$ -	\$ 51,540	\$ -	\$ -	\$ -	332,547
Investment	\$ 311,820	\$ 1,005,815	\$ -	\$ 131,173	\$ -	\$ 284,422	\$ -	\$ -	\$ -	1,733,229
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 20,616	\$ 66,397	\$ -	\$ 8,304	\$ -	\$ 17,482	\$ -	\$ -	\$ -	112,799
Total	\$ 81,394	\$ 262,144	\$ -	\$ 32,787	\$ -	\$ 69,023	\$ -	\$ -	\$ -	445,347
with carrier-to-carrier	\$ 81,455	\$ 262,782	\$ -	\$ 32,882	\$ -	\$ 69,291	\$ -	\$ -	\$ -	446,411
Feeder (non-DLC)										
Annual Capital Cost	\$ -	\$ 23,368	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,368
Network Expenses	\$ -	\$ 5,589	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,589
Direct expense	\$ -	\$ 28,956	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	28,956

Network-Related Expenses

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Investment	\$ -	\$ 139,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 139,969
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Support & Overhead per direct exp.	\$ -	\$ 9,822	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,822
Total	\$ -	\$ 38,778	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,778
with carrier-to-carrier	\$ -	\$ 38,873	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,873
Feeder (all)										
Annual Capital Cost	\$ 48,429	\$ 179,712	\$ -	\$ 20,443	\$ -	\$ 44,455	\$ -	\$ -	\$ -	\$ 293,039
Network Expenses	\$ 12,348	\$ 44,991	\$ -	\$ 4,040	\$ -	\$ 7,086	\$ -	\$ -	\$ -	\$ 68,465
Direct expense	\$ 60,778	\$ 224,703	\$ -	\$ 24,482	\$ -	\$ 51,540	\$ -	\$ -	\$ -	\$ 361,504
Investment	\$ 311,820	\$ 1,145,784	\$ -	\$ 131,173	\$ -	\$ 284,422	\$ -	\$ -	\$ -	\$ 1,873,198
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Support & Overhead per direct exp.	\$ 20,616	\$ 76,219	\$ -	\$ 8,304	\$ -	\$ 17,482	\$ -	\$ -	\$ -	\$ 122,621
Total	\$ 81,394	\$ 300,922	\$ -	\$ 32,787	\$ -	\$ 69,023	\$ -	\$ -	\$ -	\$ 484,125
with carrier-to-carrier	\$ 81,455	\$ 301,655	\$ -	\$ 32,882	\$ -	\$ 69,291	\$ -	\$ -	\$ -	\$ 485,283
End Office Switching										
Annual Capital Cost	\$ 4,333	\$ 106,472	\$ -	\$ 19,417	\$ -	\$ 61,814	\$ -	\$ -	\$ -	\$ 192,036
Network Expenses	\$ 1,437	\$ 36,289	\$ -	\$ 6,683	\$ -	\$ 21,275	\$ -	\$ -	\$ -	\$ 65,685
Direct expense	\$ 5,771	\$ 142,761	\$ -	\$ 26,100	\$ -	\$ 83,089	\$ -	\$ -	\$ -	\$ 257,721
Investment	\$ 26,960	\$ 663,217	\$ -	\$ 121,005	\$ -	\$ 385,214	\$ -	\$ -	\$ -	\$ 1,196,396
Support expenses	\$ 1,200	\$ 38,967	\$ -	\$ 7,809	\$ -	\$ 26,972	\$ -	\$ -	\$ -	\$ 74,948
Subtotal, with misc spt	\$ 6,971	\$ 181,728	\$ -	\$ 33,909	\$ -	\$ 110,061	\$ -	\$ -	\$ -	\$ 332,669
Total, with var overhead	\$ 7,696	\$ 200,628	\$ -	\$ 37,436	\$ -	\$ 121,507	\$ -	\$ -	\$ -	\$ 367,267
with carrier-to-carrier	\$ 7,701	\$ 201,094	\$ -	\$ 37,537	\$ -	\$ 121,941	\$ -	\$ -	\$ -	\$ 368,273
Signaling										
Annual Capital Cost	\$ 514	\$ 5,911	\$ -	\$ 604	\$ -	\$ 1,922	\$ -	\$ -	\$ -	\$ 8,952
Network Expenses	\$ 133	\$ 1,641	\$ -	\$ 185	\$ -	\$ 588	\$ -	\$ -	\$ -	\$ 2,546
Direct expense	\$ 647	\$ 7,552	\$ -	\$ 789	\$ -	\$ 2,510	\$ -	\$ -	\$ -	\$ 11,498
Investment	\$ 3,209	\$ 36,795	\$ -	\$ 3,746	\$ -	\$ 11,926	\$ -	\$ -	\$ -	\$ 55,676
Support expenses	\$ 135	\$ 2,061	\$ -	\$ 236	\$ -	\$ 815	\$ -	\$ -	\$ -	\$ 3,247
Subtotal, with misc spt	\$ 782	\$ 9,614	\$ -	\$ 1,024	\$ -	\$ 3,325	\$ -	\$ -	\$ -	\$ 14,745
Total, with var overhead	\$ 863	\$ 10,613	\$ -	\$ 1,131	\$ -	\$ 3,671	\$ -	\$ -	\$ -	\$ 16,278
with carrier-to-carrier	\$ 864	\$ 10,638	\$ -	\$ 1,134	\$ -	\$ 3,684	\$ -	\$ -	\$ -	\$ 16,320
Dedicated Transport										
Annual Capital Cost	\$ 861	\$ 13,601	\$ -	\$ 2,409	\$ -	\$ 7,510	\$ -	\$ -	\$ -	\$ 24,381
Network Expenses	\$ 219	\$ 3,456	\$ -	\$ 612	\$ -	\$ 1,908	\$ -	\$ -	\$ -	\$ 6,195
Direct expense	\$ 1,080	\$ 17,057	\$ -	\$ 3,021	\$ -	\$ 9,417	\$ -	\$ -	\$ -	\$ 30,576
Investment	\$ 5,526	\$ 87,290	\$ -	\$ 15,462	\$ -	\$ 48,198	\$ -	\$ -	\$ -	\$ 156,475
Support expenses	\$ 225	\$ 4,656	\$ -	\$ 904	\$ -	\$ 3,057	\$ -	\$ -	\$ -	\$ 8,841
Subtotal, with misc spt	\$ 1,305	\$ 21,713	\$ -	\$ 3,925	\$ -	\$ 12,475	\$ -	\$ -	\$ -	\$ 39,417
Total, with var overhead	\$ 1,440	\$ 23,971	\$ -	\$ 4,333	\$ -	\$ 13,772	\$ -	\$ -	\$ -	\$ 43,517
with carrier-to-carrier	\$ 1,441	\$ 24,027	\$ -	\$ 4,345	\$ -	\$ 13,821	\$ -	\$ -	\$ -	\$ 43,634
Dedicated Transport Transmission										
Annual Capital Cost	\$ 91	\$ 11,672	\$ -	\$ 2,821	\$ -	\$ 8,795	\$ -	\$ -	\$ -	\$ 23,379
Network Expenses	\$ 7	\$ 914	\$ -	\$ 221	\$ -	\$ 689	\$ -	\$ -	\$ -	\$ 1,831
Direct expense	\$ 98	\$ 12,586	\$ -	\$ 3,042	\$ -	\$ 9,484	\$ -	\$ -	\$ -	\$ 25,211
Investment	\$ 467	\$ 59,750	\$ -	\$ 14,444	\$ -	\$ 45,025	\$ -	\$ -	\$ -	\$ 119,686
Support expenses	\$ 20	\$ 3,435	\$ -	\$ 910	\$ -	\$ 3,079	\$ -	\$ -	\$ -	\$ 7,445
Subtotal, with misc spt	\$ 119	\$ 16,021	\$ -	\$ 3,953	\$ -	\$ 12,563	\$ -	\$ -	\$ -	\$ 32,655
Total, with var overhead	\$ 131	\$ 17,687	\$ -	\$ 4,364	\$ -	\$ 13,869	\$ -	\$ -	\$ -	\$ 36,052
with carrier-to-carrier	\$ 131	\$ 17,728	\$ -	\$ 4,376	\$ -	\$ 13,919	\$ -	\$ -	\$ -	\$ 36,154
Direct Transport										
Annual Capital Cost	\$ 1,747	\$ 14,764	\$ -	\$ 706	\$ -	\$ 2,200	\$ -	\$ -	\$ -	\$ 19,417
Network Expenses	\$ 444	\$ 3,754	\$ -	\$ 179	\$ -	\$ 559	\$ -	\$ -	\$ -	\$ 4,936
Direct expense	\$ 2,191	\$ 18,518	\$ -	\$ 885	\$ -	\$ 2,759	\$ -	\$ -	\$ -	\$ 24,354
Investment	\$ 11,211	\$ 94,748	\$ -	\$ 4,530	\$ -	\$ 14,123	\$ -	\$ -	\$ -	\$ 124,613
Support expenses	\$ 456	\$ 5,054	\$ -	\$ 265	\$ -	\$ 896	\$ -	\$ -	\$ -	\$ 6,671
Subtotal, with misc spt	\$ 2,647	\$ 23,572	\$ -	\$ 1,150	\$ -	\$ 3,655	\$ -	\$ -	\$ -	\$ 31,024
Total, with var overhead	\$ 2,922	\$ 26,024	\$ -	\$ 1,270	\$ -	\$ 4,035	\$ -	\$ -	\$ -	\$ 34,251
with carrier-to-carrier	\$ 2,925	\$ 26,084	\$ -	\$ 1,273	\$ -	\$ 4,050	\$ -	\$ -	\$ -	\$ 34,331
Direct Transport Transmission										
Annual Capital Cost	\$ 185	\$ 4,550	\$ -	\$ 827	\$ -	\$ 2,577	\$ -	\$ -	\$ -	\$ 8,139
Network Expenses	\$ 14	\$ 356	\$ -	\$ 65	\$ -	\$ 202	\$ -	\$ -	\$ -	\$ 637
Direct expense	\$ 199	\$ 4,906	\$ -	\$ 891	\$ -	\$ 2,779	\$ -	\$ -	\$ -	\$ 8,776
Investment	\$ 947	\$ 23,293	\$ -	\$ 4,232	\$ -	\$ 13,193	\$ -	\$ -	\$ -	\$ 41,665
Support expenses	\$ 41	\$ 1,339	\$ -	\$ 267	\$ -	\$ 902	\$ -	\$ -	\$ -	\$ 2,550
Subtotal, with misc spt	\$ 241	\$ 6,246	\$ -	\$ 1,158	\$ -	\$ 3,681	\$ -	\$ -	\$ -	\$ 11,326
Total, with var overhead	\$ 266	\$ 6,895	\$ -	\$ 1,279	\$ -	\$ 4,064	\$ -	\$ -	\$ -	\$ 12,504
with carrier-to-carrier	\$ 266	\$ 6,911	\$ -	\$ 1,282	\$ -	\$ 4,078	\$ -	\$ -	\$ -	\$ 12,538
Common Transport										
Annual Capital Cost	\$ 4,019	\$ 38,609	\$ -	\$ 2,790	\$ -	\$ 8,697	\$ -	\$ -	\$ -	\$ 54,114
Network Expenses	\$ 1,022	\$ 9,815	\$ -	\$ 709	\$ -	\$ 2,210	\$ -	\$ -	\$ -	\$ 13,755
Direct expense	\$ 5,040	\$ 48,424	\$ -	\$ 3,499	\$ -	\$ 10,907	\$ -	\$ -	\$ -	\$ 67,869
Investment	\$ 25,786	\$ 247,774	\$ -	\$ 17,906	\$ -	\$ 55,819	\$ -	\$ -	\$ -	\$ 347,286
Support expenses	\$ 1,048	\$ 13,217	\$ -	\$ 1,457	\$ -	\$ 3,540	\$ -	\$ -	\$ -	\$ 18,853
Subtotal, with misc spt	\$ 6,088	\$ 61,641	\$ -	\$ 4,546	\$ -	\$ 14,447	\$ -	\$ -	\$ -	\$ 86,722
Total, with var overhead	\$ 6,721	\$ 68,052	\$ -	\$ 5,018	\$ -	\$ 15,949	\$ -	\$ -	\$ -	\$ 95,741
with carrier-to-carrier	\$ 6,727	\$ 68,210	\$ -	\$ 5,032	\$ -	\$ 16,006	\$ -	\$ -	\$ -	\$ 95,974

Network-Related Expenses

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Common Transport Transmission										
Annual Capital Cost	\$ 425	\$ 15,913	\$ -	\$ 3,268	\$ -	\$ 10,186	\$ -	\$ -	\$ -	29,792
Network Expenses	\$ 33	\$ 1,246	\$ -	\$ 256	\$ -	\$ 798	\$ -	\$ -	\$ -	2,333
Direct expense	\$ 459	\$ 17,159	\$ -	\$ 3,524	\$ -	\$ 10,984	\$ -	\$ -	\$ -	32,125
Investment	\$ 2,177	\$ 81,463	\$ -	\$ 16,728	\$ -	\$ 52,145	\$ -	\$ -	\$ -	152,512
Support expenses	\$ 95	\$ 4,684	\$ -	\$ 1,054	\$ -	\$ 3,566	\$ -	\$ -	\$ -	9,399
Subtotal, with misc spt	\$ 554	\$ 21,843	\$ -	\$ 4,578	\$ -	\$ 14,549	\$ -	\$ -	\$ -	41,524
Total, with var overhead	\$ 612	\$ 24,115	\$ -	\$ 5,054	\$ -	\$ 16,062	\$ -	\$ -	\$ -	45,843
with carrier-to-carrier	\$ 612	\$ 24,171	\$ -	\$ 5,068	\$ -	\$ 16,120	\$ -	\$ -	\$ -	45,970
Tandem Switching										
Annual Capital Cost	\$ 59	\$ 1,492	\$ -	\$ 275	\$ -	\$ 875	\$ -	\$ -	\$ -	2,701
Network Expenses	\$ 32	\$ 797	\$ -	\$ 147	\$ -	\$ 467	\$ -	\$ -	\$ -	1,443
Direct expense	\$ 91	\$ 2,290	\$ -	\$ 422	\$ -	\$ 1,342	\$ -	\$ -	\$ -	4,144
Investment	\$ 380	\$ 9,585	\$ -	\$ 1,765	\$ -	\$ 5,619	\$ -	\$ -	\$ -	17,349
Support expenses	\$ 19	\$ 625	\$ -	\$ 126	\$ -	\$ 436	\$ -	\$ -	\$ -	1,206
Subtotal, with misc spt	\$ 110	\$ 2,914	\$ -	\$ 548	\$ -	\$ 1,778	\$ -	\$ -	\$ -	5,350
Total, with var overhead	\$ 121	\$ 3,218	\$ -	\$ 605	\$ -	\$ 1,963	\$ -	\$ -	\$ -	5,906
with carrier-to-carrier	\$ 121	\$ 3,225	\$ -	\$ 606	\$ -	\$ 1,970	\$ -	\$ -	\$ -	5,922
Operator Systems										
Annual Capital Cost	\$ 816	\$ 7,876	\$ -	\$ 573	\$ -	\$ 1,824	\$ -	\$ -	\$ -	11,089
Network Expenses	\$ 433	\$ 7,748	\$ -	\$ 1,207	\$ -	\$ 3,843	\$ -	\$ -	\$ -	13,231
Direct expense	\$ 1,249	\$ 15,623	\$ -	\$ 1,780	\$ -	\$ 5,667	\$ -	\$ -	\$ -	24,320
Investment	\$ 5,199	\$ 49,041	\$ -	\$ 3,363	\$ -	\$ 10,704	\$ -	\$ -	\$ -	68,308
Support expenses	\$ 204	\$ 3,226	\$ -	\$ 389	\$ -	\$ 1,389	\$ -	\$ -	\$ -	5,209
Subtotal, with misc spt	\$ 1,453	\$ 18,849	\$ -	\$ 2,169	\$ -	\$ 7,056	\$ -	\$ -	\$ -	29,528
Total, with var overhead	\$ 1,605	\$ 20,810	\$ -	\$ 2,395	\$ -	\$ 7,790	\$ -	\$ -	\$ -	32,599
with carrier-to-carrier	\$ 1,606	\$ 20,861	\$ -	\$ 2,402	\$ -	\$ 7,820	\$ -	\$ -	\$ -	32,688
Public Telephone										
Annual Capital Cost	\$ 30	\$ 2,048	\$ -	\$ 477	\$ -	\$ 1,519	\$ -	\$ -	\$ -	4,073
Network Expenses	\$ 27	\$ 1,884	\$ -	\$ 439	\$ -	\$ 1,397	\$ -	\$ -	\$ -	3,748
Direct expense	\$ 57	\$ 3,932	\$ -	\$ 916	\$ -	\$ 2,916	\$ -	\$ -	\$ -	7,821
Investment	\$ 146	\$ 10,016	\$ -	\$ 2,333	\$ -	\$ 7,427	\$ -	\$ -	\$ -	19,922
Support expenses	\$ 9	\$ 812	\$ -	\$ 200	\$ -	\$ 715	\$ -	\$ -	\$ -	1,736
Subtotal, with misc spt	\$ 67	\$ 4,744	\$ -	\$ 1,116	\$ -	\$ 3,630	\$ -	\$ -	\$ -	9,557
Total, with var overhead	\$ 74	\$ 5,237	\$ -	\$ 1,232	\$ -	\$ 4,008	\$ -	\$ -	\$ -	10,551
with carrier-to-carrier	\$ 74	\$ 5,250	\$ -	\$ 1,236	\$ -	\$ 4,023	\$ -	\$ -	\$ -	10,583
Totals										
Annual Capital Cost	\$ 116,831	\$ 934,370	\$ -	\$ 149,732	\$ -	\$ 352,881	\$ -	\$ -	\$ -	1,553,813
Network Expenses	\$ 27,470	\$ 232,752	\$ -	\$ 34,445	\$ -	\$ 75,533	\$ -	\$ -	\$ -	370,199
Total	\$ 144,300	\$ 1,167,122	\$ -	\$ 184,176	\$ -	\$ 428,413	\$ -	\$ -	\$ -	1,924,012
Investment	\$ 722,614	\$ 5,748,770	\$ -	\$ 905,884	\$ -	\$ 2,148,720	\$ -	\$ -	\$ -	9,525,987
Supporting Network Expenses										
Capital Cost - Genl Support	\$ 6,072	\$ 48,308	\$ -	\$ 7,612	\$ -	\$ 18,056	\$ -	\$ -	\$ -	80,048
Network Operations	\$ 2,684	\$ 70,060	\$ -	\$ 13,197	\$ -	\$ 41,139	\$ -	\$ -	\$ -	127,081
Network Support	\$ 417	\$ 3,371	\$ -	\$ 532	\$ -	\$ 1,237	\$ -	\$ -	\$ -	5,557
Other Taxes	\$ 8,395	\$ 70,405	\$ -	\$ 11,222	\$ -	\$ 26,672	\$ -	\$ -	\$ -	116,695
Misc Expenses	\$ 6,038	\$ 48,840	\$ -	\$ 7,707	\$ -	\$ 17,927	\$ -	\$ -	\$ -	80,513
Subtotal	\$ 23,607	\$ 240,984	\$ -	\$ 40,271	\$ -	\$ 105,033	\$ -	\$ -	\$ -	409,894
Carrier-carrier customer svc	\$ 146	\$ 3,806	\$ -	\$ 717	\$ -	\$ 2,235	\$ -	\$ -	\$ -	6,904
Interoffice/Switching Net Ops	\$ 691	\$ 18,032	\$ -	\$ 3,397	\$ -	\$ 10,589	\$ -	\$ -	\$ -	32,708
Interoffice/Sw Exp	\$ 15,577	\$ 271,253	\$ -	\$ 42,173	\$ -	\$ 133,272	\$ -	\$ -	\$ -	462,274
Total Network Costs										
	\$ 168,598	\$ 1,426,138	\$ -	\$ 227,844	\$ -	\$ 544,035	\$ -	\$ -	\$ -	2,366,615
Other costs										
Other Taxes	\$ 8,395	\$ 70,405	\$ -	\$ 11,222	\$ -	\$ 26,672	\$ -	\$ -	\$ -	116,695
Monthly Cost Factors										
Loop	0.02268	0.02282	-	0.02273	-	0.02186	-	-	-	0.02266
Port	0.00763	0.00783	-	0.00790	-	0.00790	-	-	-	0.00786
Switching	0.01012	0.01039	-	0.01049	-	0.01049	-	-	-	0.01043
Signaling	0.00198	0.00436	-	0.00789	-	0.00789	-	-	-	0.00522
Transport	0.00191	0.00370	-	0.00549	-	0.00560	-	-	-	0.00422
Billing/Bill Inquiries (per line)	2.74	2.74	-	2.74	-	2.74	-	-	-	2.74
Directory Listing (per line)	-	-	-	-	-	-	-	-	-	-
LNP Expense (per line)	0.30	0.30	-	0.30	-	0.30	-	-	-	0.30
Inverse Carrier to Carrier Expense Factors										
	99.9243%	99.7685%	0.0000%	99.7293%	0.0000%	99.6445%	0.0000%	0.0000%	0.0000%	99.7657%

Use this sheet to vary the proportion of expenses assigned to loop-related network elements on the basis of lines and on the basis of direct expenses, respectively. Change only the % assigned "per line" -- the "per direct cost" will be calculated.

	Total Annual Amount assigned to loops	% to be assigned per line	% to be assigned per direct cost	Annual Amount to be assigned per line	Annual Amount to be assigned per direct cost
General Support - Loops					
Furniture - Capital Costs	\$ 2,559	0%	100%	\$ -	\$ 2,559
Furniture - Expenses	\$ 1,965	0%	100%	\$ -	\$ 1,965
Office Equipment - Capital Costs	\$ 7,306	0%	100%	\$ -	\$ 7,306
Office Equipment - Expenses	\$ 4,163	0%	100%	\$ -	\$ 4,163
General Purpose Computer - Capital Costs	\$ 15,268	0%	100%	\$ -	\$ 15,268
General Purpose Computer - Expenses	\$ 40,251	0%	100%	\$ -	\$ 40,251
Motor Vehicles - Capital Costs	\$ 9,213	0%	100%	\$ -	\$ 9,213
Motor Vehicles - Expenses	\$ 3,219	0%	100%	\$ -	\$ 3,219
Buildings - Capital Costs	\$ 18,415	0%	100%	\$ -	\$ 18,415
Buildings - Expenses	\$ 13,443	0%	100%	\$ -	\$ 13,443
Garage Work Eqpt. - Capital Costs	\$ 270	0%	100%	\$ -	\$ 270
Garage Work Eqpt. - Expenses	\$ 94	0%	100%	\$ -	\$ 94
Other Work Eqpt. - Capital Costs	\$ 6,446	0%	100%	\$ -	\$ 6,446
Other Work Eqpt. - Expenses	\$ 817	0%	100%	\$ -	\$ 817
Total General Support	\$ 123,431			\$ -	\$ 123,431
Network Operations	\$ 94,425	0%	100%	\$ -	\$ 94,425
Other Taxes	\$ 86,708	0%	100%	\$ -	\$ 86,708
Variable Overhead	\$ 180,353	0%	100%	\$ -	\$ 180,353
Totals	\$ 304,563			\$ -	\$ 484,916

	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
Direct Costs										
Loop-related direct costs	\$ 127,417	\$ 876,314	\$ -	\$ 139,308	\$ -	\$ 286,559	\$ -	\$ -	\$ -	\$ 1,429,598
Non-Loop-related direct costs	\$ 16,883	\$ 290,809	\$ -	\$ 44,869	\$ -	\$ 141,854	\$ -	\$ -	\$ -	\$ 494,415
Total	\$ 144,300	\$ 1,167,122	\$ -	\$ 184,176	\$ -	\$ 428,413	\$ -	\$ -	\$ -	\$ 1,924,012
Loop Fraction	88.30%	75.08%	0.00%	75.64%	0.00%	66.89%	0.00%	0.00%	0.00%	74.30%
Network Operations	\$ 2,684	\$ 70,060	\$ -	\$ 13,197	\$ -	\$ 41,139	\$ -	\$ -	\$ -	\$ 127,081

	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs
General Support - Totals			
Furniture - Capital Costs	\$ 3,445	\$ 2,559	\$ 885
Furniture - Expenses	\$ 2,645	\$ 1,965	\$ 680
Office Equipment - Capital Costs	\$ 9,833	\$ 7,306	\$ 2,527
Office Equipment - Expenses	\$ 5,603	\$ 4,163	\$ 1,440
General Purpose Computer - Capital Costs	\$ 20,548	\$ 15,268	\$ 5,280
General Purpose Computer - Expenses	\$ 54,172	\$ 40,251	\$ 13,921
Motor Vehicles - Capital Costs	\$ 12,399	\$ 9,213	\$ 3,186
			\$ 80,048
			\$ 86,070

Exp Assignment

Motor Vehicles - Expenses	\$ 4,332	\$ 3,219	\$ 1,113	
Buildings - Capital Costs	\$ 24,784	\$ 18,415	\$ 6,369	
Buildings - Expenses	\$ 18,093	\$ 13,443	\$ 4,649	
Garage Work Eqpt. - Capital Costs	\$ 363	\$ 270	\$ 93	
Garage Work Eqpt. - Expenses	\$ 126	\$ 94	\$ 32	
Other Work Eqpt. - Capital Costs	\$ 8,676	\$ 6,446	\$ 2,229	
Other Work Eqpt. - Expenses	\$ 1,099	\$ 817	\$ 282	
Total General Support	\$ 166,118	\$ 123,431	\$ 42,687	
Network Operations	\$ 127,081	\$ 94,425	\$ 32,656	
Other Taxes Calculation				
Total Direct Costs	\$ 1,924,012	\$ 1,429,598	\$ 494,415	\$ 1,924,012
Total Network Operations	\$ 127,081	\$ 94,425	\$ 32,656	\$ 127,081
Total General Support	\$ 166,118	\$ 123,431	\$ 42,687	\$ 202,765
Total	\$ 2,217,211	\$ 1,647,453	\$ 569,758	
Other Taxes	\$ 116,695	\$ 86,708	\$ 29,987	\$ 319,461
Total Expenses and Other Taxes	\$ 2,333,907	\$ 1,734,161	\$ 599,745	
Variable Overhead Calculation				
Variable Overhead	\$ 242,726	\$ 180,353	\$ 62,374	
Total Cost with Variable Overhead	2,576,633	1,914,514	662,119	

UNE Expense Assignment

Totals

NID

per line cost \$ -
per direct cost \$ 6,616
total \$ 6,616

Distribution (DLC)

per line cost \$ -
per direct cost \$ 220,697
total \$ 220,697

Distribution (non-DLC)

per line cost \$ -
per direct cost \$ 84,138
total \$ 84,138

Concentrator (DLC)

per line cost \$ -
per direct cost \$ 50,229
total \$ 50,229

Concentrator (non-DLC)

per line cost \$ -
per direct cost \$ 615
total \$ 615

Feeder (DLC)

per line cost \$ -
per direct cost \$ 112,799
total \$ 112,799

Feeder (non-DLC)

Exp Assignment

<i>per line cost</i>	\$	-
<i>per direct cost</i>	\$	9,822
<i>total</i>	\$	9,822

End Office Switching	\$	345,139
Signaling	\$	15,398
Dedicated Transport	\$	40,947
Dedicated Transport Transmission	\$	33,762
Direct Transport	\$	32,614
Direct Transport Transmission	\$	11,753
Common Transport	\$	90,890
Common Transport Transmission	\$	43,022
Tandem Switching	\$	5,550
Operator Systems	\$	32,569
Public Telephone	\$	10,474

COST SUMMARY

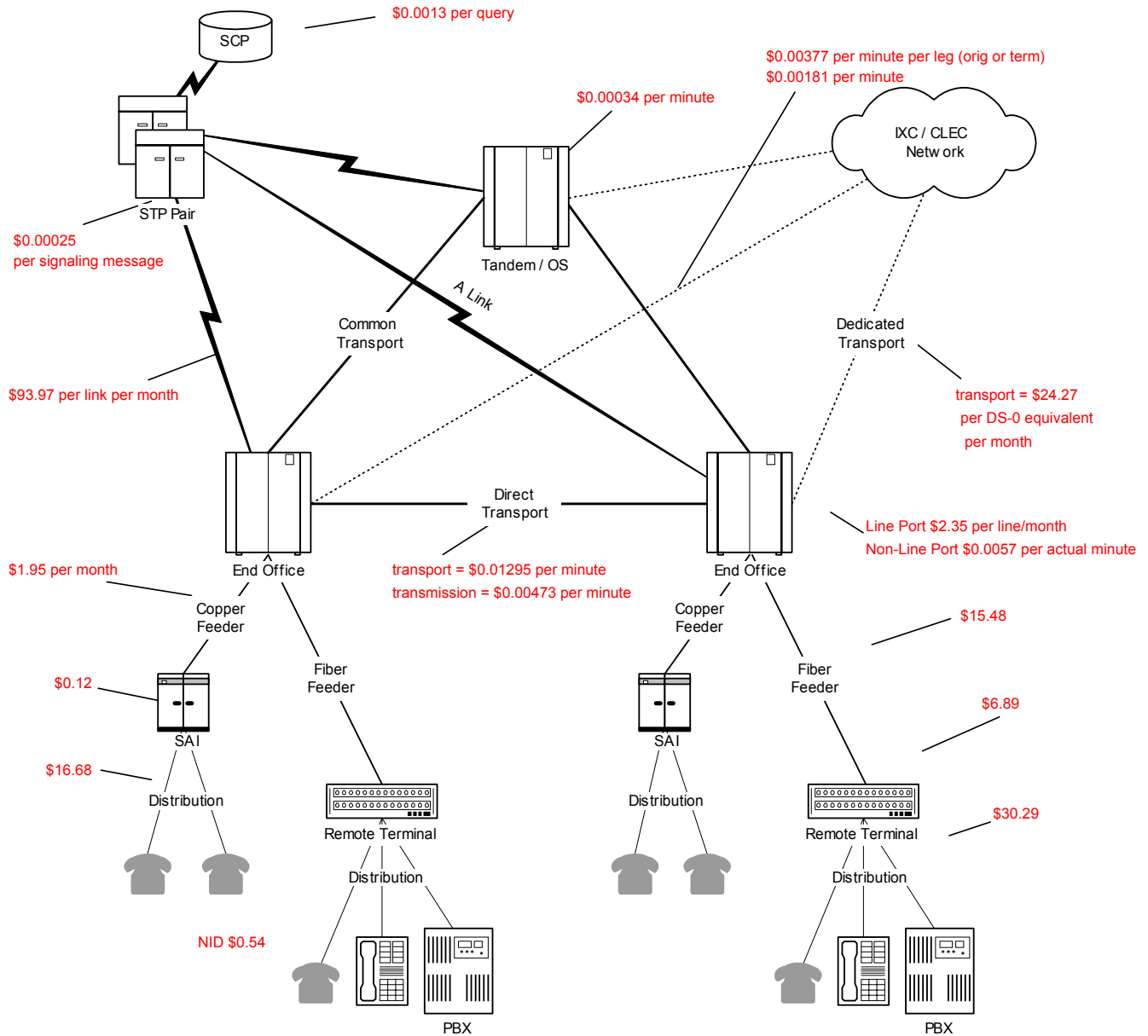
Missouri Citizens Telephone Co - Missouri

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	\$ 101,938	1.1%	\$ 16,312	\$ 3,194	\$ 19,506	\$ 6,616	\$ 26,122	\$ 26,198
<i>Distribution (DLC)</i>	3,295,229	34.6%	528,460	122,184	650,644	220,697	871,341	873,757
<i>Distribution (non-DLC)</i>	1,239,552	13.0%	199,126	48,924	248,050	84,138	332,187	332,996
Distribution (all)	4,534,781	47.6%	727,586	171,108	898,694	304,835	1,203,529	1,206,754
<i>Concentrator (DLC)</i>	706,084	7.4%	137,187	10,893	148,080	50,229	198,309	198,867
<i>Concentrator (non-DLC)</i>	10,100	0.1%	1,616	198	1,814	615	2,430	2,435
Concentrator (all)	716,184	7.5%	138,803	11,091	149,895	50,844	200,738	201,303
<i>Feeder (DLC)</i>	1,733,229	18.2%	269,671	62,876	332,547	112,799	445,347	446,411
<i>Feeder (non-DLC)</i>	139,969	1.5%	23,368	5,589	28,956	9,822	38,778	38,873
Feeder (all)	1,873,198	19.7%	293,039	68,465	361,504	122,621	484,125	485,283
End Office Switching	1,196,396	12.6%	192,036	65,685	257,721	74,948	332,669	368,273
Signaling	55,676	0.6%	8,952	2,546	11,498	3,247	14,745	16,320
Dedicated Transport	156,475	1.6%	24,381	6,195	30,576	8,841	39,417	43,634
Dedicated Transport Transmission	119,686	1.3%	23,379	1,831	25,211	7,445	32,655	36,154
Direct Transport	124,613	1.3%	19,417	4,936	24,354	6,671	31,024	34,331
Direct Transport Transmission	41,665	0.4%	8,139	637	8,776	2,550	11,326	12,538
Common Transport	347,286	3.6%	54,114	13,755	67,869	18,853	86,722	95,974
Common Transport Transmission	152,512	1.6%	29,792	2,333	32,125	9,399	41,524	45,970
Tandem Switching	17,349	0.2%	2,701	1,443	4,144	1,206	5,350	5,922
Operator Systems	68,308	0.7%	11,089	13,231	24,320	5,209	29,528	32,688
Public Telephone	19,922	0.2%	4,073	3,748	7,821	1,736	9,557	10,583
Total Network Cost								
Total	\$ 9,525,987	100%	\$ 1,553,813	\$ 370,199	\$ 1,924,012	\$ 625,020	\$ 2,549,033	\$ 2,621,927

* Post sharing

Unbundled Network Elements

Missouri / Citizens Telephone Co - Missouri



USOA Detail Breakdown of HAI Model Costs

USOA	INVESTMENT DESCRIPTION	Cost \$(000)
Telecommunications Plant in Service		
2111	LAND	25
2112	MOTOR VEHICLES	65
2113	AIRCRAFT	
2114	SPECIAL PURPOSE VEHICLES	
2115	GARAGE WORK EQUIPMENT	2
2116	OTHER WORK EQUIPMENT	51
2121	BUILDINGS	339
2122	FURNITURE	22
2123.1	OFFICE SUPPORT EQUIPMENT	55
2123.2	COMPANY COMMUNICATIONS EQUIPMENT	
2124	GENERAL PURPOSE COMPUTERS	85
2110	TOTAL LAND & SUPPORT ASSETS	644
2212	DIGITAL ELECTRONIC SWITCHING	1,050
2220	OPERATOR SYSTEMS	9
2232	CIRCUIT EQUIPMENT	1,012
2351	PUBLIC TEL TERMINAL EQUIPMENT	20
2411	POLES	140
2421.1	AERIAL CABLE - METALLIC	114
2421.2	AERIAL CABLE - NonMETALLIC	71
2422.1	UNDERGROUND CABLE - METALLIC	31
2422.2	UNDERGROUND CABLE - NonMETALLIC	165
2423.1	BURIED CABLE - METALLIC	4,329
2423.2	BURIED CABLE - NonMETALLIC	2,178
2426.1	INTRABUILDING NETWORK CABLE - MET.	
2426.2	INTRABUILDING NETWORK CABLE - NonMET.	
2441	CONDUIT SYSTEMS	207
2410	TOTAL CABLE & WIRE FACILITIES	7,234
	Total TPIS (before amortizable assets)*	9,969

* This calculation of total plant includes GSF investment. GSF investment is not included in the total investment that is reported in the "Summary" sheet.

**Citizens Telephone Co - Missouri
Missouri**

USOA	EXPENSE DESCRIPTION	Cost \$(000)
Plant Specific Expenses		
6112	MOTOR VEHICLES	4
6113	AIRCRAFT	2
6114	SPECIAL PURPOSE VEHICLES	0
6115	GARAGE WORK EQUIPMENT	0
6116	OTHER WORK EQUIPMENT	1
6110	NETWORK SUPPORT	7
6121	LAND & BUILDINGS	41
6122	FURNITURE	3
6123	OFFICE EQUIPMENT	7
6124	GENERAL PURPOSE COMPUTERS	65
6120	LAND & SUPPORT ASSETS	116
6212	DIGITAL ELECTRONIC SWITCHING	50
6220	OPERATOR SYSTEMS	11
6232	CIRCUIT EQUIPMENT	16
6351	PUBLIC TEL TERMINAL EQUIPMENT	4
6411	POLES	6
6421	AERIAL CABLE	12
6422	UNDERGROUND CABLE	1
6423	BURIED CABLE	251
6426	INTRABUILDING NETWORK CABLE	
6441	CONDUIT SYSTEMS	1
6410	TOTAL CABLE & WIRE FACILITIES	271
	Total Plant Specific Expenses	474
Plant Nonspecific Operations		
	TOTAL NETWORK OPERATIONS SUPPORT	160
6561	DEPRECIATION TPIS	581
6623	CUSTOMER SERVICES	7
	Total Plant Nonspecific Operations	747
	TOTAL CORPORATE OPERATIONS	246
	TOTAL OPERATING EXPENSES	1,467
7240	OPERATING OTHER TAXES	117
	TOTAL EXPENSES & OPERATING TAXES	1,584

USOA Depreciation Calculations

	<u>Depl life</u>	<u>DepFact</u>	<u>Dep Exp</u>
2111			
2112	10.45	0.09589	6
2113			
2114			
2115	9.97	0.10031	0
2116	13.92	0.07189	4
2121	48.73	0.02052	7
2122	18.36	0.05449	1
2123.1	12.44	0.08052	4
2123.2	7.99	0.12517	-
2124	6.61	0.15223	13
2110			
2212	17.17	0.05827	61
2220	9.25	0.10829	1
2232	9.90	0.10108	102
2351	8.98	0.11145	2
2411	8.38	0.11972	17
2421.1	13.61	0.07355	8
2421.2	18.92	0.05286	4
2422.1	17.88	0.05596	2
2422.2	20.14	0.04966	8
2423.1	18.36	0.05450	236
2423.2	21.97	0.04551	99
2426.1	13.57	0.07377	-
2426.2	21.37	0.04681	-
2441	46.15	0.02167	4
<i>Total Depreciation</i>			<i>581</i>

Network Element Disaggregations

Investment Disaggregations:

<i>Terminal, Drop, and NID</i>	<i>633,764</i>
Aerial-m portion	15,881
Buried-m portion	617,884

<i>OS Trks + Signaling links</i>	<i>77,931</i>
Circuit Eqpt. portion	12,988
Pole portion	1,230
Aerial-nm portion	1,841
Underground-nm portion	-
Buried-nm portion	61,871
Conduit portion	-

<i>SAI</i>	<i>31,050</i>
Aerial-m portion	96
Aerial-nm portion	863
Underground-m portion	-
Underground-nm portion	2,754
Buried-m portion	1,952
Buried-nm portion	25,385

Expense Disaggregations:

<i>Terminal, Drop, and NID</i>	<i>23,808</i>
Aerial portion	1,166
Buried portion	22,641

<i>OS Trks + Signaling links</i>	<i>3,021</i>
Circuit Eqpt. portion	503
Pole portion	50
Aerial-nm portion	113
Underground-nm portion	-
Buried-nm portion	2,354
Conduit portion	-

<i>SAI</i>	<i>609</i>
Aerial portion	19
Underground portion	54
Buried portion	536

General Support

	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
General Support Investment										
furniture	\$ 1,639	\$ 13,036	\$ -	\$ 2,054	\$ -	\$ 4,872	\$ -	\$ -	\$ -	21,601
office equipment	4,188	33,317	-	5,250	-	12,453	-	-	-	55,207
general purpose computers	6,440	51,234	-	8,073	-	19,150	-	-	-	84,897
motor vehicles	4,928	39,201	-	6,177	-	14,652	-	-	-	64,958
buildings	12,446	99,015	-	15,603	-	37,009	-	-	-	164,073
garage work equipment	141	1,125	-	177	-	420	-	-	-	1,864
orther work equipment	3,840	30,548	-	4,814	-	11,418	-	-	-	50,620
										-
TOTAL	\$ 33,621	\$ 267,476	\$ -	\$ 42,149	\$ -	\$ 99,975	\$ -	\$ -	\$ -	443,220
Levelized Cost of Capital										
furniture	\$ 261	\$ 2,079	\$ -	\$ 328	\$ -	\$ 777	\$ -	\$ -	\$ -	3,445
office equipment	746	5,934	-	935	-	2,218	-	-	-	9,833
general purpose computers	1,559	12,401	-	1,954	-	4,635	-	-	-	20,548
motor vehicles	941	7,483	-	1,179	-	2,797	-	-	-	12,399
buildings	1,880	14,957	-	2,357	-	5,590	-	-	-	24,784
garage work equipment	28	219	-	35	-	82	-	-	-	363
orther work equipment	658	5,236	-	825	-	1,957	-	-	-	8,676
TOTAL	\$ 6,072	\$ 48,308	\$ -	\$ 7,612	\$ -	\$ 18,056	\$ -	\$ -	\$ -	80,048

Distribution

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-6000	6000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Fiber Feeder										
Distribution Investment										
buried cable	\$ 89,216	\$ 600,956	\$ -	\$ 233,602	\$ -	\$ 273,538	\$ -	\$ -	\$ -	\$ 1,197,312
aerial cable	4,515	30,413	-	11,822	-	15,472	-	-	-	62,221
underground cable	-	-	-	-	-	30,943	-	-	-	30,943
buried trenching	140,094	843,115	-	161,586	-	338,636	-	-	-	1,483,431
conduit	-	-	-	-	-	13,492	-	-	-	13,492
underground trenching	-	-	-	-	-	184,368	-	-	-	184,368
poles	8,757	49,208	-	5,213	-	7,089	-	-	-	70,265
terminal	7,243	48,790	-	17,850	-	55,513	-	-	-	129,396
drop	9,179	60,704	-	17,332	-	36,586	-	-	-	123,801
TOTAL	\$ 259,004	\$ 1,633,184	\$ -	\$ 447,404	\$ -	\$ 955,637	\$ -	\$ -	\$ -	\$ 3,295,229
	7.86%	49.56%	0.00%	13.58%	0.00%	29.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 14,228	\$ 95,839	\$ -	\$ 37,254	\$ -	\$ 43,623	\$ -	\$ -	\$ -	\$ 190,944
aerial cable	780	5,251	-	2,041	-	2,671	-	-	-	10,743
underground cable	-	-	-	-	-	4,962	-	-	-	4,962
buried trenching	22,342	134,458	-	25,769	-	54,005	-	-	-	236,573
conduit	-	-	-	-	-	2,034	-	-	-	2,034
underground trenching	-	-	-	-	-	27,795	-	-	-	27,795
poles	1,856	10,429	-	1,105	-	1,502	-	-	-	14,882
terminal	1,159	7,807	-	2,856	-	8,883	-	-	-	20,706
drop	1,469	9,714	-	2,773	-	5,854	-	-	-	19,811
TOTAL	\$ 41,833	\$ 263,497	\$ -	\$ 71,799	\$ -	\$ 151,331	\$ -	\$ -	\$ -	\$ 528,460
Network Expenses										
buried cable	3,469	23,364	-	9,082	-	10,635	-	-	-	46,550
aerial cable	284	1,913	-	743	-	973	-	-	-	3,913
underground cable	-	-	-	-	-	607	-	-	-	607
buried trenching	5,447	32,779	-	6,282	-	13,166	-	-	-	57,673
conduit	-	-	-	-	-	50	-	-	-	50
underground trenching	-	-	-	-	-	678	-	-	-	678
poles	361	2,031	-	215	-	293	-	-	-	2,900
terminal	281	1,891	-	692	-	2,152	-	-	-	5,015
drop	356	2,353	-	672	-	1,418	-	-	-	4,799
TOTAL	\$ 10,197	\$ 64,331	\$ -	\$ 17,687	\$ -	\$ 29,970	\$ -	\$ -	\$ -	\$ 122,184
Summary										
Cost of Capital	\$ 41,833	\$ 263,497	\$ -	\$ 71,799	\$ -	\$ 151,331	\$ -	\$ -	\$ -	\$ 528,460
Network Expense	10,197	64,331	-	17,687	-	29,970	-	-	-	122,184
TOTAL	\$ 52,030	\$ 327,828	\$ -	\$ 89,486	\$ -	\$ 181,301	\$ -	\$ -	\$ -	\$ 650,644
Copper Feeder										
Distribution Investment										
buried cable	\$ -	\$ 595,988	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 595,988
aerial cable	-	30,161	-	-	-	-	-	-	-	30,161
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	317,677	-	-	-	-	-	-	-	317,677
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	17,097	-	-	-	-	-	-	-	17,097
terminal	-	140,287	-	-	-	-	-	-	-	140,287
drop	-	138,342	-	-	-	-	-	-	-	138,342
TOTAL	\$ -	\$ 1,239,552	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,239,552
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ -	\$ 95,046	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95,046
aerial cable	-	5,208	-	-	-	-	-	-	-	5,208
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	50,662	-	-	-	-	-	-	-	50,662
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	3,623	-	-	-	-	-	-	-	3,623
terminal	-	22,449	-	-	-	-	-	-	-	22,449
drop	-	22,137	-	-	-	-	-	-	-	22,137
TOTAL	\$ -	\$ 199,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 199,126
Network Expenses										
buried cable	\$ -	\$ 23,171	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,171
aerial cable	-	1,897	-	-	-	-	-	-	-	1,897

Distribution

	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
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	\$ -	\$ 12,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,351
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	706	-	-	-	-	-	-	-	706
terminal	-	5,438	-	-	-	-	-	-	-	5,438
drop	-	5,362	-	-	-	-	-	-	-	5,362
TOTAL	\$ -	\$ 48,924	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,924
Summary										
Cost of Capital	\$ -	\$ 199,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	199,126
Network Expense	-	48,924	-	-	-	-	-	-	-	48,924
TOTAL	\$ -	\$ 248,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	248,050
	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
Total										
Distribution Investment										
buried cable	\$ 89,216	\$ 1,196,944	\$ -	\$ 233,602	\$ -	\$ 273,538	\$ -	\$ -	\$ -	1,793,300
aerial cable	\$ 4,515	\$ 60,574	\$ -	\$ 11,822	\$ -	\$ 15,472	\$ -	\$ -	\$ -	92,383
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,943	\$ -	\$ -	\$ -	30,943
buried trenching	\$ 140,094	\$ 1,160,792	\$ -	\$ 161,586	\$ -	\$ 338,636	\$ -	\$ -	\$ -	1,801,108
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,492	\$ -	\$ -	\$ -	13,492
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 184,368	\$ -	\$ -	\$ -	184,368
poles	\$ 8,757	\$ 66,303	\$ -	\$ 5,213	\$ -	\$ 7,089	\$ -	\$ -	\$ -	87,362
terminal	\$ 7,243	\$ 189,078	\$ -	\$ 17,850	\$ -	\$ 55,513	\$ -	\$ -	\$ -	269,684
drop	\$ 9,179	\$ 199,046	\$ -	\$ 17,332	\$ -	\$ 36,586	\$ -	\$ -	\$ -	262,143
TOTAL	\$ 259,004	\$ 2,872,736	\$ -	\$ 447,404	\$ -	\$ 955,637	\$ -	\$ -	\$ -	4,534,781
	5.71%	63.35%	0.00%	9.87%	0.00%	21.07%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 14,228	\$ 190,885	\$ -	\$ 37,254	\$ -	\$ 43,623	\$ -	\$ -	\$ -	285,990
aerial cable	\$ 780	\$ 10,459	\$ -	\$ 2,041	\$ -	\$ 2,671	\$ -	\$ -	\$ -	15,951
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,962	\$ -	\$ -	\$ -	4,962
buried trenching	\$ 22,342	\$ 185,120	\$ -	\$ 25,769	\$ -	\$ 54,005	\$ -	\$ -	\$ -	287,236
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,034	\$ -	\$ -	\$ -	2,034
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,795	\$ -	\$ -	\$ -	27,795
poles	\$ 1,856	\$ 14,052	\$ -	\$ 1,105	\$ -	\$ 1,502	\$ -	\$ -	\$ -	18,515
terminal	\$ 1,159	\$ 30,256	\$ -	\$ 2,856	\$ -	\$ 8,883	\$ -	\$ -	\$ -	43,154
drop	\$ 1,469	\$ 31,851	\$ -	\$ 2,773	\$ -	\$ 5,854	\$ -	\$ -	\$ -	41,948
TOTAL	\$ 41,833	\$ 462,623	\$ -	\$ 71,799	\$ -	\$ 151,331	\$ -	\$ -	\$ -	727,586
Network Expenses										
buried cable	\$ 3,469	\$ 46,535	\$ -	\$ 9,082	\$ -	\$ 10,635	\$ -	\$ -	\$ -	69,721
aerial cable	\$ 284	\$ 3,809	\$ -	\$ 743	\$ -	\$ 973	\$ -	\$ -	\$ -	5,810
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 607	\$ -	\$ -	\$ -	607
buried trenching	\$ 5,447	\$ 45,130	\$ -	\$ 6,282	\$ -	\$ 13,166	\$ -	\$ -	\$ -	70,024
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50	\$ -	\$ -	\$ -	50
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 678	\$ -	\$ -	\$ -	678
poles	\$ 361	\$ 2,736	\$ -	\$ 215	\$ -	\$ 293	\$ -	\$ -	\$ -	3,606
terminal	\$ 281	\$ 7,329	\$ -	\$ 692	\$ -	\$ 2,152	\$ -	\$ -	\$ -	10,453
drop	\$ 356	\$ 7,715	\$ -	\$ 672	\$ -	\$ 1,418	\$ -	\$ -	\$ -	10,161
TOTAL	\$ 10,197	\$ 113,255	\$ -	\$ 17,687	\$ -	\$ 29,970	\$ -	\$ -	\$ -	171,108
Summary										
Cost of Capital	\$ 41,833	\$ 462,623	\$ -	\$ 71,799	\$ -	\$ 151,331	\$ -	\$ -	\$ -	727,586
Network Expense	\$ 10,197	\$ 113,255	\$ -	\$ 17,687	\$ -	\$ 29,970	\$ -	\$ -	\$ -	171,108
TOTAL	\$ 52,030	\$ 575,878	\$ -	\$ 89,486	\$ -	\$ 181,301	\$ -	\$ -	\$ -	898,694
NID Cost										
NID Investment	\$ 2,483	\$ 56,228	\$ -	\$ 9,839	\$ -	\$ 33,388	\$ -	\$ -	\$ -	101,938
Levelized Cost of Capital	\$ 397	\$ 8,997	\$ -	\$ 1,574	\$ -	\$ 5,343	\$ -	\$ -	\$ -	16,312
Network Expenses	\$ 86	\$ 1,769	\$ -	\$ 288	\$ -	\$ 1,051	\$ -	\$ -	\$ -	3,194
TOTAL	\$ 483	\$ 10,767	\$ -	\$ 1,863	\$ -	\$ 6,393	\$ -	\$ -	\$ -	19,506

Concentrator

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
<i>Fiber Feeder</i>										
Concentrator Investment										
DLC Investment	\$ 65,700	\$ 293,200	\$ -	\$ 108,554	\$ -	\$ 217,680	\$ -	\$ -	\$ -	685,134
SAI Investment	1,600	7,750	-	3,400	-	8,200	-	-	-	20,950
										\$ -
TOTAL	\$ 67,300 9.53%	\$ 300,950 42.62%	\$ - 0.00%	\$ 111,954 15.86%	\$ - 0.00%	\$ 225,880 31.99%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	706,084 100.00%
Levelized Cost of Capital										
DLC	\$ 12,834	\$ 57,274	\$ -	\$ 21,205	\$ -	\$ 42,522	\$ -	\$ -	\$ -	133,835
SAI	256	1,240	-	544	-	1,312	-	-	-	3,352
TOTAL	\$ 13,090	\$ 58,514	\$ -	\$ 21,749	\$ -	\$ 43,834	\$ -	\$ -	\$ -	137,187
Network Expenses										
DLC	\$ 1,005	\$ 4,486	\$ -	\$ 1,661	\$ -	\$ 3,331	\$ -	\$ -	\$ -	10,483
SAI	31	152	-	67	-	161	-	-	-	411
TOTAL	\$ 1,037	\$ 4,638	\$ -	\$ 1,728	\$ -	\$ 3,491	\$ -	\$ -	\$ -	10,893
Summary										
Cost of Capital	\$ 13,090	\$ 58,514	\$ -	\$ 21,749	\$ -	\$ 43,834	\$ -	\$ -	\$ -	137,187
Network Expense	1,037	4,638	-	1,728	-	3,491	-	-	-	10,893
TOTAL	\$ 14,127	\$ 63,152	\$ -	\$ 23,477	\$ -	\$ 47,325	\$ -	\$ -	\$ -	148,080
	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
<i>Copper Feeder</i>										
Concentrator Investment										
DLC Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI Investment	-	10,100	-	-	-	-	-	-	-	10,100
TOTAL	\$ - 0.00%	\$ 10,100 100.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	10,100 100.00%
Levelized Cost of Capital										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI	-	1,616	-	-	-	-	-	-	-	1,616
TOTAL	\$ -	\$ 1,616	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,616
Network Expenses										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI	-	198	-	-	-	-	-	-	-	198
TOTAL	\$ -	\$ 198	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	198
Summary										
Cost of Capital	\$ -	\$ 1,616	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,616
Network Expense	-	198	-	-	-	-	-	-	-	198
TOTAL	\$ -	\$ 1,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,814
	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
<i>Total</i>										
Concentrator Investment										
DLC Investment	\$ 65,700	\$ 293,200	\$ -	\$ 108,554	\$ -	\$ 217,680	\$ -	\$ -	\$ -	685,134
SAI Investment	1,600	17,850	-	3,400	-	8,200	-	-	-	31,050
TOTAL	\$ 67,300 9.40%	\$ 311,050 43.43%	\$ - 0.00%	\$ 111,954 15.63%	\$ - 0.00%	\$ 225,880 31.54%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	716,184 100.00%

Concentrator

	0-5 lines/sq m		5-100 lines/sq m		100-200 lines/sq m		200-650 lines/sq m		650-850 lines/sq m		850-2550 lines/sq m		2550-5000 lines/sq m		5000-10000 lines/sq m		>10000 lines/sq m		Totals	
Levelized Cost of Capital																				
DLC	\$	12,834	\$	57,274	\$	-	\$	21,205	\$	-	\$	42,522	\$	-	\$	-	\$	-	\$	133,835
SAI		256		2,856		-		544		-		1,312		-		-		-		4,969
TOTAL	\$	13,090	\$	60,130	\$	-	\$	21,749	\$	-	\$	43,834	\$	-	\$	-	\$	-	\$	138,803
Network Expenses																				
DLC	\$	1,005	\$	4,486	\$	-	\$	1,661	\$	-	\$	3,331	\$	-	\$	-	\$	-	\$	10,483
SAI		31		350		-		67		-		161		-		-		-		609
TOTAL	\$	1,037	\$	4,836	\$	-	\$	1,728	\$	-	\$	3,491	\$	-	\$	-	\$	-	\$	11,091
Summary																				
Cost of Capital	\$	13,090	\$	60,130	\$	-	\$	21,749	\$	-	\$	43,834	\$	-	\$	-	\$	-	\$	138,803
Network Expense		1,037		4,836		-		1,728		-		3,491		-		-		-		11,091
TOTAL	\$	14,127	\$	64,966	\$	-	\$	23,477	\$	-	\$	47,325	\$	-	\$	-	\$	-	\$	149,895

Feeder

	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
Fiber Feeder										
Feeder Investment										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	14,025	-	-	-	14,025
fiber buried cable	184,283	799,016	-	44,473	-	136	-	-	-	1,027,908
fiber aerial cable	9,075	39,481	-	2,161	-	7	-	-	-	50,704
conduit	-	592	-	-	-	6,720	-	-	-	7,313
manholes	-	163	-	278	-	867	-	-	-	1,308
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	18,457	-	31,409	-	97,912	-	-	-	147,779
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	115,320	137,056	-	51,329	-	160,008	-	-	-	463,714
poles	3,141	11,069	-	1,523	-	4,747	-	-	-	20,480
TOTAL	\$ 311,820 17.99%	\$ 1,005,815 58.03%	\$ - 0.00%	\$ 131,173 7.57%	\$ - 0.00%	\$ 284,422 16.41%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ 1,733,229 100.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	2,198	-	-	-	2,198
fiber buried cable	28,494	123,546	-	6,877	-	21	-	-	-	158,938
fiber aerial cable	1,438	6,254	-	342	-	1	-	-	-	8,036
conduit	-	89	-	-	-	1,013	-	-	-	1,102
manholes	-	25	-	42	-	131	-	-	-	197
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	2,892	-	4,922	-	15,344	-	-	-	23,159
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	17,831	21,192	-	7,937	-	24,741	-	-	-	71,701
poles	666	2,346	-	323	-	1,006	-	-	-	4,340
TOTAL	\$ 48,429	\$ 156,345	\$ -	\$ 20,443	\$ -	\$ 44,455	\$ -	\$ -	\$ -	\$ 269,671
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	275	-	-	-	275
fiber buried cable	7,165	31,064	-	1,729	-	5	-	-	-	39,963
fiber aerial cable	571	2,482	-	136	-	0	-	-	-	3,189
conduit	-	2	-	-	-	25	-	-	-	27
manholes	-	1	-	1	-	3	-	-	-	5
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	68	-	116	-	360	-	-	-	544
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	4,483	5,329	-	1,996	-	6,221	-	-	-	18,028
poles	130	457	-	63	-	196	-	-	-	845
TOTAL	\$ 12,348	\$ 39,402	\$ -	\$ 4,040	\$ -	\$ 7,086	\$ -	\$ -	\$ -	\$ 62,876
Summary										
Cost of Capital	\$ 48,429	\$ 156,345	\$ -	\$ 20,443	\$ -	\$ 44,455	\$ -	\$ -	\$ -	\$ 269,671
Network Expense	12,348	39,402	-	4,040	-	7,086	-	-	-	62,876
TOTAL	\$ 60,778	\$ 195,747	\$ -	\$ 24,482	\$ -	\$ 51,540	\$ -	\$ -	\$ -	\$ 332,547

	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
Copper Feeder										
Feeder Investment										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	111,502	-	-	-	-	-	-	-	111,502
copper aerial cable	-	5,643	-	-	-	-	-	-	-	5,643
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	945	-	-	-	-	-	-	-	945
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	3,205	-	-	-	-	-	-	-	3,205
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	18,675	-	-	-	-	-	-	-	18,675
TOTAL	\$ - 0.00%	\$ 139,969 100.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ 139,969 100.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	17,782	-	-	-	-	-	-	-	17,782
copper aerial cable	-	974	-	-	-	-	-	-	-	974
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	142	-	-	-	-	-	-	-	142
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	511	-	-	-	-	-	-	-	511

Feeder

	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
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	3,958	-	-	-	-	-	-	-	3,958
TOTAL	\$ -	\$ 23,368	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,368
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	4,335	-	-	-	-	-	-	-	4,335
copper aerial cable	-	355	-	-	-	-	-	-	-	355
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	3	-	-	-	-	-	-	-	3
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	125	-	-	-	-	-	-	-	125
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	771	-	-	-	-	-	-	-	771
TOTAL	\$ -	\$ 5,589	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,589
Summary										
Cost of Capital	\$ -	\$ 23,368	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,368
Network Expense	-	5,589	-	-	-	-	-	-	-	5,589
TOTAL	\$ -	\$ 28,956	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	28,956
	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
Total										
Feeder Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper u/g cable	-	-	-	-	-	-	-	-	-	-
copper buried cable	-	111,502	-	-	-	-	-	-	-	111,502
copper aerial cable	-	5,643	-	-	-	-	-	-	-	5,643
fiber u/g cable	-	-	-	-	-	14,025	-	-	-	14,025
fiber buried cable	184,283	799,016	-	44,473	-	136	-	-	-	1,027,908
fiber aerial cable	9,075	39,461	-	2,161	-	7	-	-	-	50,704
conduit	-	592	-	-	-	6,720	-	-	-	7,313
manholes	-	1,109	-	278	-	867	-	-	-	2,253
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	18,457	-	31,409	-	97,912	-	-	-	147,779
copper buried placement	-	3,205	-	-	-	-	-	-	-	3,205
fiber buried placement	115,320	137,056	-	51,329	-	160,008	-	-	-	463,714
poles	3,141	29,743	-	1,523	-	4,747	-	-	-	39,154
TOTAL	\$ 311,820	\$ 1,145,784	\$ -	\$ 131,173	\$ -	\$ 284,422	\$ -	\$ -	\$ -	1,873,198
	16.65%	61.17%	0.00%	7.00%	0.00%	15.18%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	17,782	-	-	-	-	-	-	-	17,782
copper aerial cable	-	974	-	-	-	-	-	-	-	974
fiber u/g cable	-	-	-	-	-	2,198	-	-	-	2,198
fiber buried cable	28,494	123,546	-	6,877	-	21	-	-	-	158,938
fiber aerial cable	1,438	6,254	-	342	-	1	-	-	-	8,036
conduit	-	89	-	-	-	1,013	-	-	-	1,102
manholes	-	167	-	42	-	131	-	-	-	340
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	2,892	-	4,922	-	15,344	-	-	-	23,159
copper buried placement	-	511	-	-	-	-	-	-	-	511
fiber buried placement	17,831	21,192	-	7,937	-	24,741	-	-	-	71,701
poles	666	6,304	-	323	-	1,006	-	-	-	8,298
TOTAL	\$ 48,429	\$ 179,712	\$ -	\$ 20,443	\$ -	\$ 44,455	\$ -	\$ -	\$ -	293,039
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	4,335	-	-	-	-	-	-	-	4,335
copper aerial cable	-	355	-	-	-	-	-	-	-	355
fiber u/g cable	-	-	-	-	-	275	-	-	-	275
fiber buried cable	7,165	31,064	-	1,729	-	5	-	-	-	39,963
fiber aerial cable	571	2,482	-	136	-	0	-	-	-	3,189
conduit	-	2	-	-	-	25	-	-	-	27
manholes	-	4	-	1	-	3	-	-	-	8
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	68	-	116	-	360	-	-	-	544
copper buried placement	-	125	-	-	-	-	-	-	-	125
fiber buried placement	4,483	5,329	-	1,996	-	6,221	-	-	-	18,028
poles	130	1,228	-	63	-	196	-	-	-	1,616
TOTAL	\$ 12,348	\$ 44,991	\$ -	\$ 4,040	\$ -	\$ 7,086	\$ -	\$ -	\$ -	68,465
Summary										
Cost of Capital	\$ 48,429	\$ 179,712	\$ -	\$ 20,443	\$ -	\$ 44,455	\$ -	\$ -	\$ -	293,039
Network Expense	12,348	44,991	-	4,040	-	7,086	-	-	-	68,465
TOTAL	\$ 60,778	\$ 224,703	\$ -	\$ 24,482	\$ -	\$ 51,540	\$ -	\$ -	\$ -	361,504

End Office Switching

	0-5 lines/sq m		5-100 lines/sq m		100-200 lines/sq m		200-650 lines/sq m		650-850 lines/sq m		850-2550 lines/sq m		2550-5000 lines/sq m		5000-10000 lines/sq m		>10000 lines/sq m		Totals	
EO Switching Investment																				
end office switching	\$	22,131	\$	558,774	\$	-	\$	102,903	\$	-	\$	327,588	\$	-	\$	-	\$	-	\$	1,011,396
MDF/protector		-		-		-		-		-		-		-		-		-		-
wire center		3,501		88,396		-		16,279		-		51,823		-		-		-		160,000
land		1,328		16,047		-		1,823		-		5,802		-		-		-		25,000
TOTAL	\$	26,960	\$	663,217	\$	-	\$	121,005	\$	-	\$	385,214	\$	-	\$	-	\$	-	\$	1,196,396
		2.25%		55.43%		0.00%		10.11%		0.00%		32.20%		0.00%		0.00%		0.00%		100.00%
Levelized Cost of Capital																				
end office switching	\$	3,581	\$	90,419	\$	-	\$	16,652	\$	-	\$	53,009	\$	-	\$	-	\$	-	\$	163,661
MDF/protector		-		-		-		-		-		-		-		-		-		-
wire center		529		13,353		-		2,459		-		7,828		-		-		-		24,168
land		223		2,700		-		307		-		976		-		-		-		4,206
TOTAL	\$	4,333	\$	106,472	\$	-	\$	19,417	\$	-	\$	61,814	\$	-	\$	-	\$	-	\$	192,036
Network Expenses																				
end office switching	\$	1,051	\$	26,542	\$	-	\$	4,888	\$	-	\$	15,560	\$	-	\$	-	\$	-	\$	48,041
MDF/protector		-		-		-		-		-		-		-		-		-		-
wire center		386		9,748		-		1,795		-		5,715		-		-		-		17,644
land		-		-		-		-		-		-		-		-		-		-
TOTAL	\$	1,437	\$	36,289	\$	-	\$	6,683	\$	-	\$	21,275	\$	-	\$	-	\$	-	\$	65,685
Summary																				
Cost of Capital	\$	4,333	\$	106,472	\$	-	\$	19,417	\$	-	\$	61,814	\$	-	\$	-	\$	-	\$	192,036
Network Expense		1,437		36,289		-		6,683		-		21,275		-		-		-		65,685
TOTAL	\$	5,771	\$	142,761	\$	-	\$	26,100	\$	-	\$	83,089	\$	-	\$	-	\$	-	\$	257,721

Signaling

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Signaling Investment										
SCP	\$ 216	\$ 5,446	\$ -	\$ 1,003	\$ -	\$ 3,193	\$ -	\$ -	\$ -	9,858
SCP wire center	35	871	-	160	-	511	-	-	-	1,577
STP	475	11,981	-	2,206	-	7,024	-	-	-	21,687
signaling links	2,484	18,496	-	376	-	1,198	-	-	-	22,554
TOTAL	\$ 3,209	\$ 36,795	\$ -	\$ 3,746	\$ -	\$ 11,926	\$ -	\$ -	\$ -	55,676
	5.76%	66.09%	0.00%	6.73%	0.00%	21.42%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
SCP	\$ 35	\$ 881	\$ -	\$ 162	\$ -	\$ 517	\$ -	\$ -	\$ -	1,595
SCP wire center	5	132	-	24	-	77	-	-	-	238
STP	77	1,939	-	357	-	1,137	-	-	-	3,509
signaling links	398	2,960	-	60	-	192	-	-	-	3,609
TOTAL	\$ 514	\$ 5,911	\$ -	\$ 604	\$ -	\$ 1,922	\$ -	\$ -	\$ -	8,952
Network Expenses										
SCP	\$ 10	\$ 259	\$ -	\$ 48	\$ -	\$ 152	\$ -	\$ -	\$ -	468
SCP wire center	4	96	-	18	-	56	-	-	-	174
STP	23	569	-	105	-	334	-	-	-	1,030
signaling links	96	717	-	15	-	46	-	-	-	874
TOTAL	\$ 133	\$ 1,641	\$ -	\$ 185	\$ -	\$ 588	\$ -	\$ -	\$ -	2,546
Summary										
Cost of Capital	\$ 514	\$ 5,911	\$ -	\$ 604	\$ -	\$ 1,922	\$ -	\$ -	\$ -	8,952
Network Expense	133	1,641	-	185	-	588	-	-	-	2,546
TOTAL	\$ 647	\$ 7,552	\$ -	\$ 789	\$ -	\$ 2,510	\$ -	\$ -	\$ -	11,498

Dedicated Transport

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Dedicated Transport Investment										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	5,260	83,197	-	14,745	-	45,965	-	-	-	149,167
aerial cable	159	2,444	-	426	-	1,328	-	-	-	4,357
poles	107	1,649	-	290	-	905	-	-	-	2,951
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 5,526	\$ 87,290	\$ -	\$ 15,462	\$ -	\$ 48,198	\$ -	\$ -	\$ -	\$ 156,475
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	813	12,864	-	2,280	-	7,107	-	-	-	23,065
aerial cable	25	387	-	68	-	210	-	-	-	691
poles	23	349	-	62	-	192	-	-	-	625
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 861	\$ 13,601	\$ -	\$ 2,409	\$ -	\$ 7,510	\$ -	\$ -	\$ -	\$ 24,381
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	204	3,235	-	573	-	1,787	-	-	-	5,799
aerial cable	10	154	-	27	-	84	-	-	-	274
poles	4	68	-	12	-	37	-	-	-	122
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 219	\$ 3,456	\$ -	\$ 612	\$ -	\$ 1,908	\$ -	\$ -	\$ -	\$ 6,195
Summary										
Cost of Capital	\$ 861	\$ 13,601	\$ -	\$ 2,409	\$ -	\$ 7,510	\$ -	\$ -	\$ -	\$ 24,381
Network Expense	219	3,456	-	612	-	1,908	-	-	-	6,195
TOTAL	\$ 1,080	\$ 17,057	\$ -	\$ 3,021	\$ -	\$ 9,417	\$ -	\$ -	\$ -	\$ 30,576
Transmission Terminal										
investment	\$ 467	\$ 59,750	\$ -	\$ 14,444	\$ -	\$ 45,025	\$ -	\$ -	\$ -	\$ 119,686
levelized cost of capital	91	11,672	-	2,821	-	8,795	-	-	-	23,379
network expenses	7	914	-	221	-	689	-	-	-	1,831
TOTAL	\$ 98	\$ 12,586	\$ -	\$ 3,042	\$ -	\$ 9,484	\$ -	\$ -	\$ -	\$ 25,211

Direct Transport

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Direct Transport Investment										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	10,671	90,213	-	4,321	-	13,469	-	-	-	118,673
aerial cable	323	2,734	-	125	-	389	-	-	-	3,571
poles	217	1,801	-	85	-	265	-	-	-	2,368
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 11,211	\$ 94,748	\$ -	\$ 4,530	\$ -	\$ 14,123	\$ -	\$ -	\$ -	\$ 124,613
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	1,650	13,949	-	668	-	2,083	-	-	-	18,350
aerial cable	51	433	-	20	-	62	-	-	-	566
poles	46	382	-	18	-	56	-	-	-	502
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 1,747	\$ 14,764	\$ -	\$ 706	\$ -	\$ 2,200	\$ -	\$ -	\$ -	\$ 19,417
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	415	3,507	-	168	-	524	-	-	-	4,614
aerial cable	20	172	-	8	-	24	-	-	-	225
poles	9	74	-	4	-	11	-	-	-	98
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 444	\$ 3,754	\$ -	\$ 179	\$ -	\$ 559	\$ -	\$ -	\$ -	\$ 4,936
Summary										
Cost of Capital	\$ 1,747	\$ 14,764	\$ -	\$ 706	\$ -	\$ 2,200	\$ -	\$ -	\$ -	\$ 19,417
Network Expense	444	3,754	-	179	-	559	-	-	-	4,936
TOTAL	\$ 2,191	\$ 18,518	\$ -	\$ 885	\$ -	\$ 2,759	\$ -	\$ -	\$ -	\$ 24,354
Transmission Terminal										
investment	\$ 947	\$ 23,293	\$ -	\$ 4,232	\$ -	\$ 13,193	\$ -	\$ -	\$ -	\$ 41,665
levelized cost of capital	185	4,550	-	827	-	2,577	-	-	-	8,139
network expenses	14	356	-	65	-	202	-	-	-	637
TOTAL	\$ 199	\$ 4,906	\$ -	\$ 891	\$ -	\$ 2,779	\$ -	\$ -	\$ -	\$ 8,776

Common Transport

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Common Transport Investment										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	24,544	235,960	-	17,077	-	53,233	-	-	-	330,813
aerial cable	744	7,111	-	493	-	1,538	-	-	-	9,886
poles	499	4,703	-	336	-	1,048	-	-	-	6,587
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 25,786	\$ 247,774	\$ -	\$ 17,906	\$ -	\$ 55,819	\$ -	\$ -	\$ -	\$ 347,286
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	3,795	36,485	-	2,640	-	8,231	-	-	-	51,151
aerial cable	118	1,127	-	78	-	244	-	-	-	1,567
poles	106	997	-	71	-	222	-	-	-	1,396
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 4,019	\$ 38,609	\$ -	\$ 2,790	\$ -	\$ 8,697	\$ -	\$ -	\$ -	\$ 54,114
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
buried cable	954	9,174	-	664	-	2,070	-	-	-	12,861
aerial cable	47	447	-	31	-	97	-	-	-	622
poles	21	194	-	14	-	43	-	-	-	272
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 1,022	\$ 9,815	\$ -	\$ 709	\$ -	\$ 2,210	\$ -	\$ -	\$ -	\$ 13,755
Summary										
Cost of Capital	\$ 4,019	\$ 38,609	\$ -	\$ 2,790	\$ -	\$ 8,697	\$ -	\$ -	\$ -	\$ 54,114
Network Expense	1,022	9,815	-	709	-	2,210	-	-	-	13,755
TOTAL	\$ 5,040	\$ 48,424	\$ -	\$ 3,499	\$ -	\$ 10,907	\$ -	\$ -	\$ -	\$ 67,869
Transmission Terminal										
investment	\$ 2,177	\$ 81,463	\$ -	\$ 16,728	\$ -	\$ 52,145	\$ -	\$ -	\$ -	\$ 152,512
levelized cost of capital	425	15,913	-	3,268	-	10,186	-	-	-	29,792
network expenses	33	1,246	-	256	-	798	-	-	-	2,333
TOTAL	\$ 459	\$ 17,159	\$ -	\$ 3,524	\$ -	\$ 10,984	\$ -	\$ -	\$ -	\$ 32,125

Tandem Switching

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Tandem Switching Investment										
tandem switching	\$ 164	\$ 4,139	\$ -	\$ 762	\$ -	\$ 2,427	\$ -	\$ -	\$ -	7,492
wire center	216	5,446	-	1,003	-	3,193	-	-	-	9,858
TOTAL	\$ 380	\$ 9,585	\$ -	\$ 1,765	\$ -	\$ 5,619	\$ -	\$ -	\$ -	17,349
Levelized Cost of Capital										
tandem switching	\$ 27	\$ 670	\$ -	\$ 123	\$ -	\$ 393	\$ -	\$ -	\$ -	1,212
wire center	33	823	-	151	-	482	-	-	-	1,489
TOTAL	\$ 59	\$ 1,492	\$ -	\$ 275	\$ -	\$ 875	\$ -	\$ -	\$ -	2,701
Network Expenses										
tandem switching	\$ 8	\$ 197	\$ -	\$ 36	\$ -	\$ 115	\$ -	\$ -	\$ -	356
wire center	24	601	-	111	-	352	-	-	-	1,087
TOTAL	\$ 32	\$ 797	\$ -	\$ 147	\$ -	\$ 467	\$ -	\$ -	\$ -	1,443
Summary										
Cost of Capital	\$ 59	\$ 1,492	\$ -	\$ 275	\$ -	\$ 875	\$ -	\$ -	\$ -	2,701
Network Expense	32	797	-	147	-	467	-	-	-	1,443
TOTAL	\$ 91	\$ 2,290	\$ -	\$ 422	\$ -	\$ 1,342	\$ -	\$ -	\$ -	4,144

Operator Services

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Operator Investment										
OS Tandem Switching	\$ 69	\$ 1,743	\$ -	\$ 321	\$ -	\$ 1,022	\$ -	\$ -	\$ -	3,154
OS Tandem Wire Center	86	2,178	-	401	-	1,277	-	-	-	3,943
OS Trunks	4,916	41,897	-	2,047	-	6,516	-	-	-	55,376
OS Position	128	3,223	-	594	-	1,890	-	-	-	5,834
TOTAL	\$ 5,199	\$ 49,041	\$ -	\$ 3,363	\$ -	\$ 10,704	\$ -	\$ -	\$ -	68,308
Levelized Cost of Capital										
OS Tandem Switching	\$ 11	\$ 282	\$ -	\$ 52	\$ -	\$ 165	\$ -	\$ -	\$ -	510
OS Tandem Wire Center	13	329	-	61	-	193	-	-	-	596
OS Trunks	760.931704	6484.445354	0	316.7919717	0	1008.494434	0	0	0	8,571
OS Position	31	780	-	144	-	457	-	-	-	1,412
TOTAL	\$ 816	\$ 7,876	\$ -	\$ 573	\$ -	\$ 1,824	\$ -	\$ -	\$ -	11,089
Network Expenses										
OS Tandem Switching	\$ 3	\$ 83	\$ -	\$ 15	\$ -	\$ 49	\$ -	\$ -	\$ -	150
OS Tandem Wire Center	10	240	-	44	-	141	-	-	-	435
OS Trunks	191	1,624	-	79	-	253	-	-	-	2,146
OS Position	9	218	-	40	-	128	-	-	-	394
Operator Wages	221	5,583	-	1,028	-	3,273	-	-	-	10,106
TOTAL	\$ 433	\$ 7,748	\$ -	\$ 1,207	\$ -	\$ 3,843	\$ -	\$ -	\$ -	13,231
Summary										
Cost of Capital	\$ 816	\$ 7,876	\$ -	\$ 573	\$ -	\$ 1,824	\$ -	\$ -	\$ -	11,089
Network Expense	433	7,748	-	1,207	-	3,843	-	-	-	13,231
TOTAL	\$ 1,249	\$ 15,623	\$ -	\$ 1,780	\$ -	\$ 5,667	\$ -	\$ -	\$ -	24,320

Public Telephone

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Public Telephone Investment	\$ 146	\$ 10,016	\$ -	\$ 2,333	\$ -	\$ 7,427	\$ -	\$ -	\$ -	19,922
	0.73%	50.28%	0.00%	11.71%	0.00%	37.28%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital	\$ 30	\$ 2,048	\$ -	\$ 477	\$ -	\$ 1,519	\$ -	\$ -	\$ -	4,073
Network Expenses	\$ 27	\$ 1,884	\$ -	\$ 439	\$ -	\$ 1,397	\$ -	\$ -	\$ -	3,748
Summary										
Cost of Capital	\$ 30	\$ 2,048	\$ -	\$ 477	\$ -	\$ 1,519	\$ -	\$ -	\$ -	4,073
Network Expense	27	1,884	-	439	-	1,397	-	-	-	3,748
TOTAL	\$ 57	\$ 3,932	\$ -	\$ 916	\$ -	\$ 2,916	\$ -	\$ -	\$ -	7,821

DeprecLife	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
CCF-Fact	0.15007	0.15004	0.15003	0.15005	0.15008	0.15013	0.15019	0.15026	0.15034	0.15044	0.15053	0.15064	0.15074	0.15085	0.15097	0.15108	0.15120	0.15132	0.15144	0.15156	0.15168	0.15179	0.15191	0.15203	0.15214	0.15226	0.15237	0.15248	0.15259	0.15270	0.15280	0.15290	0.15301
DeprecFact	0.02041	0.02057	0.02073	0.02090	0.02107	0.02124	0.02141	0.02158	0.02175	0.02192	0.02209	0.02226	0.02243	0.02260	0.02277	0.02294	0.02311	0.02328	0.02345	0.02362	0.02379	0.02396	0.02413	0.02430	0.02447	0.02464	0.02481	0.02498	0.02515	0.02532	0.02549	0.02566	0.02583
ROF-Fact	0.08481	0.08538	0.08593	0.08647	0.08699	0.08750	0.08799	0.08847	0.08894	0.08939	0.08983	0.09026	0.09068	0.09108	0.09147	0.09185	0.09222	0.09258	0.09293	0.09327	0.09360	0.09391	0.09423	0.09453	0.09482	0.09511	0.09538	0.09565	0.09592	0.09617	0.09642	0.09666	0.09690
Fax-GU-Fact	0.15085	0.15069	0.15063	0.15067	0.15077	0.15089	0.15102	0.15115	0.15128	0.15141	0.15154	0.15167	0.15180	0.15193	0.15206	0.15219	0.15232	0.15245	0.15258	0.15271	0.15284	0.15297	0.15310	0.15323	0.15336	0.15349	0.15362	0.15375	0.15388	0.15401	0.15414	0.15427	0.15440
COE																																	
COE																																	
NPV-EoP	1.29477	1.29808	1.30124	1.30426	1.30715	1.30991	1.31255	1.31508	1.31751	1.31984	1.32207	1.32421	1.32627	1.32825	1.33016	1.33199	1.33376	1.33546	1.33710	1.33868	1.34021	1.34168	1.34311	1.34448	1.34581	1.34710	1.34835	1.34955	1.35072	1.35185	1.35295	1.35402	1.35505
NPV-BoP	1.44043	1.44411	1.44763	1.45099	1.45420	1.45727	1.46021	1.46303	1.46573	1.46831	1.47080	1.47318	1.47548	1.47768	1.47980	1.48184	1.48380	1.48569	1.48752	1.48928	1.49098	1.49262	1.49420	1.49573	1.49721	1.49864	1.50003	1.50137	1.50267	1.50393	1.50515	1.50634	1.50749
Pmc-EoP	0.15806	0.15803	0.15802	0.15804	0.15807	0.15812	0.15819	0.15826	0.15833	0.15841	0.15848	0.15855	0.15862	0.15869	0.15877	0.15889	0.15901	0.15913	0.15925	0.15938	0.15950	0.15963	0.15975	0.15988	0.16000	0.16012	0.16025	0.16037	0.16049	0.16061	0.16073	0.16083	0.16094
Pmc-BoP	0.14208	0.14205	0.14204	0.14206	0.14209	0.14213	0.14219	0.14226	0.14234	0.14242	0.14252	0.14261	0.14272	0.14282	0.14293	0.14304	0.14315	0.14326	0.14337	0.14349	0.14360	0.14371	0.14382	0.14393	0.14404	0.14415	0.14426	0.14436	0.14446	0.14456	0.14466	0.14476	0.14486
Year																																	
1	0.18711	0.18633	0.18560	0.18491	0.18426	0.18364	0.18305	0.18249	0.18195	0.18144	0.18096	0.18049	0.18005	0.17962	0.17921	0.17882	0.17845	0.17809	0.17774	0.17741	0.17709	0.17678	0.17648	0.17619	0.17591	0.17564	0.17538	0.17513	0.17489	0.17465	0.17442	0.17420	0.17399
2	0.18240	0.18176	0.18116	0.18059	0.18005	0.17953	0.17905	0.17858	0.17814	0.17772	0.17732	0.17694	0.17657	0.17622	0.17588	0.17556	0.17525	0.17495	0.17466	0.17439	0.17412	0.17387	0.17362	0.17338	0.17315	0.17293	0.17271	0.17251	0.17231	0.17211	0.17192	0.17174	0.17156
3	0.17769	0.17719	0.17671	0.17626	0.17583	0.17543	0.17505	0.17468	0.17433	0.17400	0.17368	0.17338	0.17309	0.17281	0.17255	0.17229	0.17205	0.17181	0.17158	0.17137	0.17116	0.17096	0.17076	0.17057	0.17039	0.17022	0.17005	0.16988	0.16972	0.16957	0.16942	0.16928	0.16914
4	0.17298	0.17262	0.17227	0.17194	0.17162	0.17133	0.17104	0.17078	0.17052	0.17028	0.17004	0.16982	0.16961	0.16941	0.16921	0.16902	0.16885	0.16867	0.16851	0.16839	0.16829	0.16819	0.16809	0.16799	0.16789	0.16779	0.16769	0.16759	0.16749	0.16739	0.16729	0.16719	0.16709
5	0.16828	0.16804	0.16782	0.16761	0.16741	0.16722	0.16704	0.16687	0.16671	0.16656	0.16641	0.16627	0.16613	0.16600	0.16588	0.16576	0.16564	0.16553	0.16543	0.16533	0.16523	0.16514	0.16504	0.16496	0.16487	0.16479	0.16471	0.16464	0.16456	0.16449	0.16442	0.16435	0.16429
6	0.16357	0.16347	0.16337	0.16328	0.16320	0.16312	0.16304	0.16297	0.16290	0.16283	0.16277	0.16271	0.16265	0.16260	0.16254	0.16249	0.16244	0.16240	0.16235	0.16231	0.16227	0.16223	0.16219	0.16215	0.16211	0.16208	0.16204	0.16201	0.16198	0.16195	0.16192	0.16189	0.16186
7	0.15886	0.15890	0.15893	0.15896	0.15899	0.15901	0.15904	0.15907	0.15911	0.15913	0.15915	0.15917	0.15919	0.15921	0.15923	0.15924	0.15926	0.15927	0.15929	0.15930	0.15932	0.15933	0.15934	0.15935	0.15937	0.15938	0.15939	0.15940	0.15941	0.15942	0.15943	0.15944	0.15945
8	0.15416	0.15432	0.15448	0.15463	0.15478	0.15491	0.15504	0.15516	0.15528	0.15539	0.15549	0.15560	0.15570	0.15581	0.15592	0.15602	0.15612	0.15622	0.15632	0.15642	0.15652	0.15662	0.15672	0.15682	0.15692	0.15702	0.15712	0.15722	0.15732	0.15742	0.15752	0.15762	0.15772
9	0.14945	0.14975	0.15004	0.15031	0.15056	0.15081	0.15104	0.15126	0.15147	0.15167	0.15186	0.15204	0.15221	0.15238	0.15254	0.15269	0.15284	0.15298	0.15312	0.15325	0.15337	0.15350	0.15361	0.15373	0.15383	0.15394	0.15404	0.15414	0.15424	0.15434	0.15444	0.15454	0.15464
10	0.14474	0.14518	0.14559	0.14598	0.14635	0.14670	0.14704	0.14735	0.14766	0.14794	0.14822	0.14848	0.14873	0.14897	0.14921	0.14943	0.14964	0.14984	0.15004	0.15023	0.15041	0.15059	0.15075	0.15092	0.15108	0.15123	0.15137	0.15152	0.15165	0.15179	0.15192	0.15204	0.15216
11	0.14003	0.14061	0.14115	0.14166	0.14214	0.14260	0.14304	0.14345	0.14385	0.14424	0.14458	0.14493	0.14525	0.14557	0.14587	0.14616	0.14644	0.14671	0.14696	0.14721	0.14745	0.14768	0.14790	0.14811	0.14832	0.14851	0.14871	0.14889	0.14897	0.14925	0.14942	0.14958	0.14974
12	0.13533	0.13603	0.13670	0.13733	0.13793	0.13850	0.13903	0.13955	0.14004	0.14050	0.14094	0.14137	0.14178	0.14216	0.14254	0.14289	0.14324	0.14357	0.14388	0.14419	0.14448	0.14477	0.14504	0.14530	0.14556	0.14580	0.14604	0.14627	0.14649	0.14671	0.14691	0.14712	0.14731
13	0.13062	0.13146	0.13225	0.13301	0.13372	0.13439	0.13503	0.13564	0.13622	0.13678	0.13731	0.13781	0.13830	0.13876	0.13920	0.13963	0.14004	0.14043	0.14081	0.14117	0.14152	0.14186	0.14218	0.14249	0.14280	0.14309	0.14337	0.14365	0.14391	0.14417	0.14441	0.14465	0.14489
14	0.12591	0.12689	0.12781	0.12868	0.12951	0.13029	0.13104	0.13174	0.13241	0.13306	0.13367	0.13426	0.13482	0.13535	0.13587	0.13636	0.13684	0.13729	0.13773	0.13815	0.13855	0.13895	0.13932	0.13969	0.14004	0.14038	0.14070	0.14102	0.14133	0.14163	0.14191	0.14219	0.14246
15	0.12120	0.12231	0.12336	0.12435	0.12529	0.12618	0.12703	0.12784	0.12860	0.12933	0.13003	0.13070	0.13134	0.13195	0.13253	0.13310	0.13363	0.13415	0.13465	0.13513	0.13559	0.13604	0.13646	0.13688	0.13728	0.13766	0.13804	0.13840	0.13875	0.13909	0.13941	0.13973	0.14004
16	0.11650	0.11774	0.11892	0.12003	0.12108	0.12208	0.12303	0.12393	0.12479	0.12561	0.12640	0.12714	0.12786	0.12854	0.12920	0.12983	0.13043	0.13101	0.13157	0.13211	0.13263	0.13313	0.13361	0.13407	0.13452	0.13495	0.13537	0.13577	0.13617	0.13654	0.13691	0.13727	0.13761
17	0.11179	0.11317	0.11457	0.11570	0.11687	0.11798	0.11903	0.12003	0.12098	0.12189	0.12276	0.12359	0.12438	0.12514	0.12587	0.12656	0.12723	0.12788	0.12849	0.12909	0.12966	0.13022	0.13075	0.13126	0.13176	0.13224	0.13270	0.13315	0.13358	0.13400	0.13441	0.13481	0.13519
18	0.10708	0.10860	0.11002	0.11138	0.11266	0.11387	0.11503	0.11613	0.11717	0.11817	0.11912	0.12003	0.12090	0.12173	0.12253	0.12330	0.12403	0.12474	0.12542	0.12607	0.12670	0.12731	0.12789	0.12845	0.12900	0.12953	0.13003	0.13053	0.13100	0.13146	0.13191	0.13234	0.13276
19	0.10238	0.10402	0.10558	0.10705	0.10845	0.10977	0.11103	0.11222	0.11336	0.11445	0.11548	0.11647	0.11742	0.11833	0.11920	0.12003	0.12083	0.12160	0.12234	0.12305	0.12374	0.12440	0.12505	0.12566	0.12624	0.12681	0.12737	0.12790	0.12842	0.12892	0.12941	0.12988	0.13034
20	0.09767	0.09945	0.10113	0.10273	0.10423	0.10567	0.10702	0.10832	0.10955	0.11072	0.11185	0.11292	0.11394	0.11492	0.11586	0.11676	0.11763	0.11846	0.11926	0.12003	0.12077	0.12149	0.12217	0.12284	0.12348	0.12410	0.12470	0.12528	0.12584	0.12638	0.12691	0.12742	0.12791
21	0.09296	0.09488	0.09669	0.09840	0.09992	0.10136	0.10274	0.10404	0.10524	0.10634	0.10734	0.10824	0.10916	0.11002	0.11083	0.11155	0.11223																

Depreciated life	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
CCFAct	0.15311	0.15320	0.15330	0.15339	0.15349	0.15358	0.15366	0.15375	0.15384	0.15392	0.15400	0.15408	0.15416	0.15423	0.15431
DeprecFact	0.01493	0.01471	0.01449	0.01429	0.01408	0.01389	0.01370	0.01351	0.01333	0.01316	0.01299	0.01282	0.01266	0.01250	0.01235
RORFact	0.09713	0.09735	0.09757	0.09778	0.09798	0.09818	0.09838	0.09857	0.09876	0.09894	0.09912	0.09929	0.09946	0.09962	0.09978
TaxGUFact	0.04106	0.04115	0.04124	0.04133	0.04142	0.04150	0.04159	0.04167	0.04174	0.04182	0.04190	0.04197	0.04204	0.04211	0.04218
COE															
COD															
NPV-EoP	1.35606	1.35703	1.35798	1.35890	1.35979	1.36066	1.36151	1.36234	1.36314	1.36392	1.36468	1.36542	1.36615	1.36685	1.36754
NPV-BuP	1.50861	1.50969	1.51075	1.51177	1.51277	1.51373	1.51468	1.51559	1.51649	1.51736	1.51820	1.51903	1.51983	1.52062	1.52138
Pmc-EoP	0.16126	0.16136	0.16146	0.16156	0.16166	0.16175	0.16185	0.16194	0.16203	0.16212	0.16220	0.16228	0.16237	0.16245	0.16253
Pmc-BuP	0.14495	0.14505	0.14514	0.14523	0.14531	0.14540	0.14548	0.14556	0.14564	0.14572	0.14580	0.14587	0.14595	0.14602	0.14609
Year															
1	0.17378	0.17358	0.17338	0.17319	0.17301	0.17283	0.17265	0.17248	0.17231	0.17215	0.17200	0.17184	0.17169	0.17155	0.17141
2	0.17139	0.17122	0.17106	0.17090	0.17075	0.17060	0.17046	0.17032	0.17018	0.17005	0.16992	0.16979	0.16967	0.16955	0.16943
3	0.16900	0.16887	0.16874	0.16862	0.16850	0.16838	0.16827	0.16816	0.16805	0.16794	0.16784	0.16774	0.16764	0.16755	0.16745
4	0.16661	0.16652	0.16642	0.16633	0.16624	0.16616	0.16607	0.16599	0.16591	0.16584	0.16576	0.16569	0.16562	0.16555	0.16548
5	0.16422	0.16416	0.16410	0.16405	0.16399	0.16393	0.16388	0.16383	0.16378	0.16373	0.16368	0.16364	0.16359	0.16355	0.16350
6	0.16184	0.16181	0.16178	0.16176	0.16173	0.16171	0.16169	0.16167	0.16165	0.16162	0.16160	0.16158	0.16156	0.16155	0.16153
7	0.15945	0.15946	0.15946	0.15947	0.15948	0.15949	0.15949	0.15950	0.15951	0.15952	0.15953	0.15954	0.15954	0.15955	0.15955
8	0.15706	0.15710	0.15714	0.15719	0.15723	0.15727	0.15730	0.15734	0.15738	0.15741	0.15745	0.15748	0.15751	0.15754	0.15757
9	0.15467	0.15475	0.15483	0.15490	0.15497	0.15504	0.15511	0.15518	0.15524	0.15531	0.15537	0.15543	0.15549	0.15554	0.15560
10	0.15228	0.15239	0.15251	0.15261	0.15272	0.15282	0.15292	0.15302	0.15311	0.15320	0.15329	0.15338	0.15346	0.15354	0.15362
11	0.14989	0.15004	0.15019	0.15033	0.15046	0.15060	0.15073	0.15085	0.15098	0.15109	0.15121	0.15132	0.15143	0.15154	0.15165
12	0.14750	0.14769	0.14787	0.14804	0.14821	0.14837	0.14853	0.14869	0.14884	0.14899	0.14913	0.14927	0.14941	0.14954	0.14967
13	0.14511	0.14533	0.14555	0.14575	0.14596	0.14615	0.14634	0.14653	0.14671	0.14688	0.14705	0.14722	0.14738	0.14754	0.14770
14	0.14273	0.14298	0.14323	0.14347	0.14370	0.14393	0.14415	0.14436	0.14457	0.14478	0.14498	0.14517	0.14536	0.14554	0.14572
15	0.14034	0.14063	0.14091	0.14118	0.14145	0.14171	0.14196	0.14220	0.14244	0.14267	0.14290	0.14312	0.14333	0.14354	0.14374
16	0.13795	0.13827	0.13859	0.13889	0.13919	0.13948	0.13976	0.14004	0.14031	0.14056	0.14082	0.14106	0.14130	0.14154	0.14177
17	0.13556	0.13592	0.13627	0.13661	0.13694	0.13726	0.13757	0.13788	0.13817	0.13846	0.13874	0.13901	0.13928	0.13954	0.13979
18	0.13317	0.13357	0.13395	0.13432	0.13468	0.13504	0.13538	0.13571	0.13604	0.13635	0.13666	0.13696	0.13725	0.13754	0.13782
19	0.13078	0.13121	0.13163	0.13204	0.13243	0.13281	0.13319	0.13355	0.13390	0.13425	0.13458	0.13491	0.13523	0.13554	0.13584
20	0.12839	0.12886	0.12931	0.12975	0.13018	0.13059	0.13099	0.13139	0.13177	0.13214	0.13250	0.13286	0.13320	0.13354	0.13386
21	0.12600	0.12660	0.12699	0.12746	0.12792	0.12837	0.12880	0.12922	0.12964	0.13004	0.13043	0.13081	0.13118	0.13154	0.13189
22	0.12362	0.12415	0.12467	0.12518	0.12567	0.12615	0.12661	0.12706	0.12750	0.12793	0.12835	0.12875	0.12915	0.12954	0.12991
23	0.12123	0.12180	0.12235	0.12289	0.12341	0.12392	0.12442	0.12490	0.12537	0.12582	0.12627	0.12670	0.12712	0.12753	0.12794
24	0.11884	0.11944	0.12003	0.12060	0.12116	0.12170	0.12222	0.12274	0.12323	0.12372	0.12419	0.12465	0.12510	0.12553	0.12596
25	0.11645	0.11709	0.11771	0.11832	0.11891	0.11948	0.12003	0.12057	0.12110	0.12161	0.12211	0.12260	0.12307	0.12353	0.12398
26	0.11406	0.11474	0.11539	0.11603	0.11665	0.11725	0.11784	0.11841	0.11897	0.11953	0.12008	0.12061	0.12113	0.12163	0.12201
27	0.11167	0.11238	0.11307	0.11374	0.11440	0.11503	0.11565	0.11625	0.11683	0.11740	0.11795	0.11849	0.11902	0.11953	0.12003
28	0.10928	0.11003	0.11075	0.11146	0.11214	0.11281	0.11345	0.11408	0.11470	0.11529	0.11588	0.11644	0.11699	0.11753	0.11806
29	0.10689	0.10768	0.10843	0.10917	0.10989	0.11058	0.11126	0.11192	0.11256	0.11319	0.11380	0.11439	0.11497	0.11553	0.11608
30	0.10450	0.10532	0.10611	0.10689	0.10763	0.10836	0.10907	0.10976	0.11043	0.11108	0.11172	0.11234	0.11294	0.11353	0.11410
31	0.10212	0.10297	0.10380	0.10460	0.10538	0.10614	0.10688	0.10760	0.10830	0.10898	0.10964	0.11029	0.11092	0.11153	0.11213
32	0.09973	0.10061	0.10148	0.10231	0.10313	0.10392	0.10469	0.10543	0.10616	0.10687	0.10756	0.10823	0.10889	0.10953	0.11015
33	0.09734	0.09826	0.09916	0.10003	0.10087	0.10169	0.10249	0.10327	0.10403	0.10476	0.10548	0.10618	0.10686	0.10753	0.10818
34	0.09495	0.09591	0.09684	0.09774	0.09862	0.09947	0.10030	0.10111	0.10189	0.10266	0.10340	0.10413	0.10484	0.10553	0.10620
35	0.09256	0.09355	0.09452	0.09545	0.09636	0.09725	0.09811	0.09894	0.09973	0.10055	0.10133	0.10208	0.10281	0.10353	0.10423
36	0.09017	0.09120	0.09220	0.09317	0.09411	0.09502	0.09592	0.09678	0.09763	0.09845	0.09925	0.10003	0.10079	0.10153	0.10225
37	0.08778	0.08885	0.08988	0.09088	0.09185	0.09280	0.09372	0.09462	0.09549	0.09634	0.09717	0.09797	0.09876	0.09953	0.10027
38	0.08539	0.08649	0.08756	0.08859	0.08960	0.09058	0.09153	0.09246	0.09336	0.09424	0.09509	0.09592	0.09673	0.09753	0.09830
39	0.08301	0.08414	0.08524	0.08631	0.08735	0.08836	0.08934	0.09029	0.09122	0.09213	0.09301	0.09387	0.09471	0.09552	0.09632
40	0.08062	0.08179	0.08292	0.08402	0.08509	0.08613	0.08715	0.08813	0.08909	0.09002	0.09093	0.09182	0.09269	0.09352	0.09435
41	0.07823	0.07943	0.08060	0.08173	0.08284	0.08391	0.08495	0.08597	0.08696	0.08792	0.08885	0.08977	0.09066	0.09152	0.09237
42	0.07584	0.07708	0.07828	0.07945	0.08058	0.08169	0.08276	0.08381	0.08482	0.08581	0.08678	0.08772	0.08863	0.08952	0.09039
43	0.07345	0.07472	0.07596	0.07716	0.07833	0.07946	0.08057	0.08164	0.08269	0.08371	0.08470	0.08566	0.08660	0.08752	0.08842
44	0.07106	0.07237	0.07364	0.07488	0.07608	0.07724	0.07838	0.07948	0.08055	0.08160	0.08262	0.08361	0.08458	0.08552	0.08644
45	0.06867	0.07002	0.07132	0.07259	0.07382	0.07502	0.07618	0.07732	0.07842	0.07949	0.08054	0.08156	0.08255	0.08352	0.08447
46	0.06628	0.06766	0.06900	0.07030	0.07157	0.07280	0.07399	0.07515	0.07629	0.07739	0.07846	0.07951	0.08053	0.08152	0.08249
47	0.06390	0.06531	0.06668	0.06802	0.06931	0.07057	0.07180	0.07299	0.07415	0.07528	0.07638	0.07746	0.07850	0.07952	0.08051
48	0.06151	0.06296	0.06436	0.06573	0.06706	0.06835	0.06961	0.07085	0.07202	0.07318	0.07430	0.07540	0.07648	0.07752	0.07854
49	0.05912	0.06060	0.06204	0.06344	0.06480	0.06613	0.06741	0.06867	0.06988	0.07107	0.07223	0.07335	0.07445	0.07552	0.07656
50	0.05673	0.05825	0.05972	0.06116	0.06255	0.06390	0.06522	0.06650	0.06775	0.06896	0.07015	0.07130	0.07242	0.07352	0.07459
51	0.05434	0.05589	0.05740	0.05887	0.06030	0.06168	0.06303	0.06434	0.06562	0.06686	0.06807	0.06925	0.07040	0.07152	0.07261
52	0.05195	0.05354	0.05508	0.05658	0.05804	0.05946	0.06084	0.06218	0.06348	0.06475	0.06599	0.06720	0.06837	0.06952	0.07063
53	0.04956	0.05119	0.05277	0.05430	0.05579	0.05724	0.05864	0.06001	0.06135	0.06265	0.06391	0.06514	0.06635	0.06752	0.06866
54	0.04717	0.04883	0.05045	0.05201	0.05353	0.05501	0.05645	0.05785	0.05921	0.06054	0.06183	0.06309	0.06432	0.06552	0.06668
55	0.04479	0.04648	0.04813	0.04973	0.05128	0.05279	0.05426	0.05569							

EXPENSE MODULE INPUTS

	User Inputs	Calculations
State	Missouri	
Company	Citizens Telephone Co	- Missouri

May 4, 2006
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Cost of Capital Inputs

Cost of Debt	8.80%
Debt fraction	44.20%
Cost of Equity	13.19%
Equity fraction	
Weighted equity fraction	
Overall Cost of Capital	

55.80%
65.42%
11.25%

Traffic Inputs

local DEMs, thousands	46,483	
intrastate DEMs, thousands	9,925	
interstate DEMs, thousands	9,799	
Local call completion fraction	70.00%	
Total local calls attempted	10,532	
Total intraLATA calls completed	630	
Total interLATA calls completed - intrastate	634	
Total interLATA calls completed - interstate	1,349	
local DEM fraction	68.21%	
local interoffice traffic fraction	12.03%	
D link investment, per link	\$ -	
Bus/Res DEMs ratio (local, state, interstate)	110%	
entrance facility investment per line	-	
local direct-routed fraction	98.00%	
tandem-routed intraLATA fraction	100.00%	
tandem-routed access fraction	100.00%	
maximum trunk usage, CCS	27.5	
ISUP msgs per i/o call attempt	6	
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	\$ -	
Total signaling links	6	
Average trunk utilization	30.00%	

66,207 total DEMs, thousands
7,372 Total local calls completed

200% 300%

Cost Parameters

tax rate	39.25%
corporate overhead factor	10.40%
other taxes factor	5.00%
billing/bill inquiry per line per month	\$ 2.30
directory listing per line per month	\$ -
forward-looking network operations factor	100.00%
alternative CO switching factor	4.75%
alternative circuit equipment factor	1.53%
EO non-port fraction	70.00%
per-line monthly LNP cost	\$ 0.25
Carrier-carrier customer service, per line per year	\$ 1.69
NID expense per line per year	\$ 1.00
DS-0/DS-1 terminal factor	12.4
DS-1/DS-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	9.28	0.1121	10.45	
2115	Garage Work Equipment	11.04	-0.1071	9.97	
2116	Other Work Equipment	13.47	0.0321	13.92	
2121	Buildings	47.82	0.0187	48.73	
2122	Furniture	17.1	0.0688	18.36	
2123.1	Office Support Equipmen	11.58	0.0691	12.44	
2123.2	Company Comm Equipm	7.69	0.0376	7.99	
2124	Computers	6.36	0.0373	6.61	
2212	Digital Switching	16.66	0.0297	17.17	
2220	Operator Systems	9.33	-0.0082	9.25	
2232.2	Digital Circuit Equipment	10.07	-0.0169	9.90	
2351	Public Telephone	8.26	0.0797	8.98	
	NID, SAI			18.05	Calculated
2411	Poles	15.92	-0.8998	8.38	
2421-m	Aerial Cable - Metallic	16.75	-0.2303	13.61	\$ 98,025
2421-nm	Aerial Cable - Non-Metall	22.24	-0.1753	18.92	\$ 60,590
2422-m	Underground - Metallic	21.14	-0.1826	17.88	\$ 30,943
2422-nm	Underground - Non-Meta	23.08	-0.1458	20.14	\$ 14,025
2423-m	Buried - Metallic	19.9	-0.0839	18.36	\$ 1,904,801
2423-nm	Buried - Non-Metallic	23.86	-0.0858	21.97	\$ 1,626,561
2426-m	Intrabuilding - Metallic	15.71	-0.1674	13.57	
2426-nm	Intrabuilding - Non-Metall	23.62	-0.1052	21.37	
2441	Conduit Systems	50.92	-0.1034	46.15	
Average Metallic Cable (calculated)				18.05	\$ 2,033,770
Average Non-Metallic Cable (calculated)				21.83	\$ 1,701,176

\$ 7,200
\$ 3,202
\$ 1,731
\$ 696
\$ 103,749
\$ 74,020

\$ 112,680
\$ 77,918

Structure fraction assigned to telephone

density range	dist aerial	dist buried	dist underground	fdr aerial	fdr underground	fdr buried
0-5	100%	100%	100%	100%	100%	100%
5-100	100%	100%	100%	100%	100%	100%
100-200	100%	100%	100%	100%	100%	100%
200-650	50%	100%	100%	50%	100%	100%
650-850	50%	100%	100%	50%	100%	100%
850-2550	50%	100%	100%	50%	100%	100%
2550-5000	50%	100%	100%	50%	100%	100%
5000-10000	50%	100%	100%	50%	100%	100%
>10000	50%	100%	100%	50%	100%	100%

Usage Calculations

Intrastate Toll DEMs	9,925,000	
Interstate Toll DEMs	9,799,000	
trunk port usage	113,993,761	
trk-min/mo	10,044	
interLATA ded. trunks	164	
Common Transport MOU		
Local	108,693	w/o OS usage
Intrastate Toll	9,925,000	
Interstate Toll	9,799,000	
	19,832,693	
Intrastate IntraLATA Calls	630	49.84% SOCCC message counts
Intrastate InterLATA Calls	634	50.16%
	1,264	

Calculation of EO Usage

Local DEMs, incl OS	46,483,000	70.2% of total DEMs
Intraoffice Local DEMs	40,888,986	
Intraoffice Local Actual Min	20,444,493	
Interoffice Local Actual Min	5,594,014	per end
Intrastate Toll Actual Min	9,925,000	
Interstate Toll Actual Min	<u>9,799,000</u>	
	45,762,507	
Tandem Switch MOU		
Local	54,347	Dedicated Trunk-SW
IntraLATA Toll	2,473,398	186
InterLATA Toll	<u>14,777,204</u>	
	17,304,949	

TRANSFORMED REGULATED		1995 COMPANY NAME:	ICO	
		OTHER TAXES & UNCOLLECTIBLES CALCULATION	EXPENSES	NET REVENUES
		7230 OPERATING STATE & LOCAL INCOME TAX-NET	26	
		7240 OPERATING OTHER TAXES	109	
		5300 UNCOLLECTIBLE REVENUES		41
		530 NET REVENUES		2,604
		GROSS REVENUES (5300 + 530)		2,645
		UNCLL GROSS REV		0.015532
		(5300-4040(p.r)) / (5081+5; UNCLL RETAIL RATE		2.27%
		(4040(p)) / (5082-.5084) UNCLL WHOLESALE RATE		0.43%
EXP	INV	PLANT SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. INVESTMENTS
		TPIS GENERAL SUPPORT		C. EXP/INV (A/B)
		2111 LAND		36
		2121 BUILDINGS		517
6121	2121	TOTAL LAND & BUILDINGS	57	552
				0.103180
6112	2112	2112 MOTOR VEHICLES	3	89
6113	2113	2113 AIRCRAFT	1	4
6114	2114	2114 SPECIAL PURPOSE VEHICLES	0	0
6115	2115	2115 GARAGE WORK EQUIPMENT	0	3
6116	2116	2116 OTHER WORK EQUIPMENT	1	70
6122	2122	2122 FURNITURE	4	34
6123	2123	2123 OFFICE EQUIPMENT	9	87
6124	2124	2124 GENERAL PRUPOSE COMPUTERS	85	134
6120	2110	2110 TOTAL LAND & SUPPORT ASSETS	155	973
				0.15965268
		TPIS - CENTRAL OFFICE SWITCHING		
		-		
6211	2211	2211 ANALOG ELECT SWITCH	3	57
6212	2212	2212 DIGITAL ELECTRONIC SWITCHING	97	1,701
6220	2220	2220 OPERATOR SYSTEMS	2	26
6210	2210	2210221022102210 CENTRAL OFFICE SWITCH	102	1,784
		TPIS - CENTRAL OFFICE TRANSMISSION		
		-		
6232	2232	2232 CIRCUIT EQUIPMENT	19	1,172
6230	2230	2230 TRANSMISSION	20	1,226
				0.016263483
		TPIS - INFORMATION ORIG/TERM		
		-		
6311	2311	2311 STATION APPARATUS	0	1
				0.382353
		2321 CUSTOMER PREMISES WIRING	0	0
6341	2341	2341 LARGE PRIVATE BRANCH EXCHANGE	0	0
				4.500000
6351	2351	2351 PUBLIC TEL TERMINAL EQUIPMENT	7	37
6362	2362	2362 OTHER TERMINAL EQUIPMENT	11	64
6310	2310	2310 TOTAL INFORMATION ORIG/TERM	19	102
				0.182377792
		TPIS - CABLE & WIRE FACILITIES		
		-		
6411	2411	2411 POLES	8	202
6421	2421	2421 AERIAL CABLE	60	952
6422	2422	2422 UNDERGROUND CABLE	12	696
6423	2423	2423 BURIED CABLE	66	1,685
6441	2441	2441 CONDUIT SYSTEMS	1	344
6410	2410	2410 TOTAL CABLE & WIRE FACILITIES	149	3,830
				0.038842
		240 TOTAL TPIS(BEFORE AMORTIZABLE ASSETS) (2110+2210+2220+2230+2310+2410)	296	7,973
				0.037062996
		PLANT NON-SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. TPIS INVESTMENT
		=	=	C. EXP/INV (A/B)
6512	240	6512 PROVISIONING EXPENSES	2	7,973
				0.000300
6531	240	6531 POWER EXPENSES	13	7,973
				0.001623
6532	240	6532 NETWORK ADMINISTRATION	33	7,973
				0.004102
6533	240	6533 TESTING	34	7,973
				0.004252
6534	240	6534 PLANT OPERATIONS ADMINISTRATION	51	7,973
				0.006391
6535	240	6535 ENGINEERING	27	7,973
				0.003373
6540	240	6540 ACCESS EXPENSE	44	7,973
				0.005573799
6530	240	6530 TOTAL NETWORK OPERATIONS EXPENSES	157	7,973
				0.019740601
6561	240	6561656165616561 DEPRECIATION - TPIS	556 556 556 556	7,973 7,973 7,973 7,973
		NETWORK SUPPORT FACTOR CALCULATION	A. EXPENSES	B. CABLE & WIRE INV
		=	=	C. EXP/INV (A/B)
		2112 MOTOR VEHICLES	3	
6113		2113 AIRCRAFT	1	
6114		2114 SPECIAL PURPOSE VEHICLES	0	
6115		2115 GARAGE WORK EQUIPMENT	0	
6116		2116 OTHER WORK EQUIPMENT	1	
		TOTAL NETWORK SUPPORT (EXCL 2113)	4	3,830
				0.001041087
		CUSTOMER OPERATIONS EXPENSES	A. EXPENSES	B. NET REVENUES
		=	=	C. EXP/NET REV (A/B)
6611		6611 PRODUCT MANAGEMENT	23	CALC
6612		6612 SALES	42	CALC
6613		6613 PRODUCT ADVERTISING	15	CALC
6610		6610 TOTAL MARKETING EXPENSES	80	CALC
6621		6621 CALL COMPLETION SERVICE	18	CALC
6622		6622 NUMBER SERVICES	43	CALC
6623		6623 CUSTOMER SERVICES	143	CALC

6620	6620 TOTAL SERVICES EXPENSES	264	CALC
-	700 TOTAL CUSTOMER OPERATIONS EXPENSE (6610 + 6620)	284	CALC
	CORPORATE OPERATIONS EXPENSES	A. EXPENSES	B. REVENUES
			C. EXP/REV (A/B)
6711	6711 EXECUTIVE	11	CALC
6712	6712 PLANNING	5	CALC
6710	6710 TOTAL EXECUTIVE & PLANNING	16	CALC
6721	6721 ACCOUNTING & FINANCE	32	CALC
6722	6722 EXTERNAL RELATIONS	20	CALC
6723	6723 HUMAN RESOURCES	23	CALC
6724	6724 INFORMATION MANAGEMENT	89	CALC
6725	6725 LEGAL	7	CALC
6726	6726 PROCUREMENT	4	CALC
6727	6727 RESEARCH & DEVELOPMENT	5	CALC
6728	6728 OTHER GENERAL & ADMINISTRATIVE	76	CALC
6720	6720 TOTAL GENERAL & ADMINISTRATIVE	257	CALC
	710 TOTAL CORPORATE OPERATIONS EXPENSE (6710 + 6720 + 6790)	338	CALC
	720 TOTAL OPERATING EXPENSES		CALC
	DEM - LOCAL	46,483	
	DEM - INTRASTATE	9,925	
	DEM - INTERSTATE	9,799	
	MESSAGES - INTRALATA	631	
	MESSAGES - INTERLATA - interstate	1,349	
4308 (EC)	MESSAGES - INTERLATA - intrastate	634,593,1194	
	LOCAL CALL ATTEMPTS	16,533	
	LINES - BUSINESS	1,023	
	RESIDENTIAL	2,772	
	PUBLIC	32	
	SPECIAL	254	
	TOTAL	4,085	
	5081 END USER		173
	5082 SWITCHED ACCESS		388
	5083 SPECIAL ACCESS		71
	TOTAL INTER ACCESS		633
	5084 END USER		
	5084 SWITCHED ACCESS		
	5084 SPECIAL ACCESS		
	STATE ACCESS		326
	TOTAL ACCESS REVENUES		959
	LD MESSAGE REVENUE		
	5100 INTERSTATE MESSAGE		
	5100 INTRASTATE MESSAGE		
	5100 INTERSTATE CALLING PLAN		
	5100 INTRASTATE CALLING PLAN		
	LD MSG REV (CLASS A)		274
	UNIDIRECTIONAL LD		
	5110 INTERSTATE		
	INTRASTATE		
	TOTAL		10
	5120 LD PRIVATE NETWORK		23
	OTHER LD		
	5160 INTERSTATE		
	INTRASTATE		
	TOTAL		4
	TOTAL LD NETWORK REVENUE		
	INTERSTATE		
	INTRASTATE		
	TOTAL		311
	BASIC LOCAL SERVICE		
	5001 BASIC AREA		844
	5002 OPTIONAL EXTEND AREA		26
	5003 CELLAR MOBIL		20
	5004 OTHER MOBIL SVC		2
	TOTAL BASIC SVC		891
	PUBLIC TELEPHONE REVENUE		
	5010 LOCAL PUBLIC MSG		
	UNIVERSAL		
	PB EXCHANGE IX CARRIER		
	CC COINLESS		
	PUBLIC EXH		

	SEMI-PUBLIC OTHER PUBLIC PHONE REV TOTAL PUBLIC PHONE REVENUE				25	
	5040 LOCAL PRIVATE LINE				29	
	CUSTOMER PREMISE 5050 STATION APP CUSTOMER PREMISE WIRING TOTAL CUSTOMER PREMISES				2	
	OTHER LOCAL EXCHANGE 5060 CO FEATURES INFO TRANSPORT DIRECTORY ASSIST INTERCEPT SRVC OTHER LOC EXCH TOTAL OTHER				208	
	TOTAL LOCAL NETWORK SRVC REVENUE INTERSTATE INTRASTATE				1155.116715	
	TOTAL REVENUE				2424.75045	
	CAPITAL STRUCTURE PARAMETERS					
	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO
	COST OF DEBT					
	COST OF EQUITY					
		BALANCE SHEET	ACCRUEL		DEPR LIFE	
		43-02, B-1	43-02, B-5		(ASSUMING	
		AVG=(ab+af)/2	(col 2C)		STRAIGHT LIFE)	
		A	B		C = (A/C)	
		-	-		-	
	ECONOMIC LIFE					
(2422,21,22,23,41)	FEEDER					
(2422,21,22,23,41)	DISTRIBUTION					
	2121 BUILDINGS					
	2232 DLC ELECTRONIC EQUIPMENT					
	2212 EO SWITCHING					
	2212 TANDEM SWITCHING					
	2220 OS POSITIONS					
	2220 OS TANDEM					
	2232 TRANSMISSION SYSTEMS					
	2351 PUBLIC TELEPHONE EQUIPMENT					
2122,2124	FURNITURE + GP COMPUTERS					
DATA SOURCEDATA SOURCEDATA SOURCEDATA SOURCEDATA SOURCEDATA SOURCESum checksum checksum checksum checksum checksum checksum check						
ARMIS 4303	Jan 1996 to Dec 1996			28215	495	
ARMIS 4304	GEORGIA			9007 (EJ)	9010	
ARMIS 4308		0 (EJ)				
DEM				0		
=	=	=	=	=	=	
UNCOLL RATE:	BA Lcl Svc	4303.Ln 520				1155.144839
	LD Ntwk Svs Rev	4303.Ln 525				313.2384048
	End User	4303.Ln 5081				173.3417022
	Sw Acc	4303.Ln 5082				388.0964683
	Spcl Acc	4303.Ln 5083				71.41950389
	St Acc	4303.Ln 5084				325.9943518
	Uncoll Rev	4303.Ln 5300				41.08411131
	Tot Acc	4304.Ln4040 (P)				3.405440957
	B&C	4304.Ln4040 (Q)				0.334472339
	IX	4304.Ln4040 (R)				0.012090945
	Ln4040 (P+Q+R)	Calc (P+Q+R)				3.752004241
Uncoll -Acc	5300-(4040p..r)	1a				37.33210706
End User+ Rievs	5081+520+525	1b				1641.724946
Uncoll Retail Rate		1c=(a/b)				0.022739563
Uncoll Wholesale rate	4040p/(5082..5084)	2a				0.004335323

Actuals for 1996 (\$000s)

	Investments	Expenses	Calculated Factor	
Plant-Specific Operations Expenses				
TPIS - General Support				
2111 Land	\$ 36	\$ -	-	
2112 Motor Vehicles	\$ 89	\$ 3	0.0348	
2113 Aircraft	\$ 4	\$ 1	0.3125	
2114 Special Purpose Vehicles	\$ 0	\$ 0	0.0142	
2115 Garage Work Equipment	\$ 3	\$ 0	0.0353	
2116 Other Work Equipment	\$ 70	\$ 1	0.0113	
2121 Buildings	\$ 517	\$ 57	0.1103	Land & Bldg Exp Applied to Bldgs
2122 Furniture	\$ 34	\$ 4	0.1224	
2123 Office Equipment	\$ 87	\$ 9	0.1015	
2124 General Purpose Computers	\$ 134	\$ 85	0.6381	
2110 Total Land & Support Assets	\$ 973	\$ 161	0.1650	
TPIS - Central Office Switching				
2211 Analog Electronic Switching	\$ 57	\$ 3	0.0453	
2212 Digital Electronic Switching	\$ 1,701	\$ 97	0.0569	4.75% NET CO Switch Factor
2210 Total Central Office Switching	\$ 1,758	\$ 99	0.0565	
2220 Operator Systems	\$ 26	\$ 2	0.0675	
TPIS - Central Office Transmission				
2231 Satellite & Earth Station Facilities				
2231 Other Radio Facilities				
2231 Radio Systems				
2232 Circuit Equipment	\$ 1,172	\$ 19	0.0163	1.53% alternative factor
2230 Total Central Office Transmission	\$ 1,172	\$ 19	0.0163	
TPIS - Information Orig/Term				
2311 Station Apparatus	\$ 1	\$ 0	0.3824	
2321 Customer Premises Wiring	\$ -	\$ -	0.0000	
2341 Large Private Branch Exchange	\$ 0	\$ 0	4.5000	
2351 Public Telephone Terminal Equipment	\$ 37	\$ 7	0.1881	
2362 Other Terminal Equipment	\$ 64	\$ 11	0.1763	
2310 Total Information Orig/Term	\$ 102	\$ 19	0.1824	
TPIS - Cable & Wire Facilities				
2411 Poles	\$ 202	\$ 8	0.0413	
2421 Aerial Cable	\$ 952	\$ 60	0.0629	0.0629
2422 Underground Cable	\$ 606	\$ 12	0.0196	0.0196
2423 Buried Cable	\$ 1,685	\$ 66	0.0389	0.0389
2424 Submarine Cable				Alternative fiber cable maintenance factors
2425 Deep Sea Cable				
2426 Intrabuilding Network Cable				
2431 Aerial Wire				
2441 Conduit Systems	\$ 344	\$ 1	0.0037	
2410 Total Cable & Wire Facilities	\$ 3,790	\$ 147	0.0388	
240 Total TPIS (before amortizable assets)	\$ 6,847	\$ 446	0.0652	
Plant Non-Specific Operations Expenses				
	Expenses	Investment	Factor	
6512 Provisioning Expenses	\$ 2	\$ 6,847	0.0003	
6531 Power Expenses	\$ 13	\$ 6,847	0.0019	8.10% all
6532 Network Administration	\$ 33	\$ 6,847	0.0048	20.47% switching, interoffice
6533 Testing	\$ 34	\$ 6,847	0.0050	21.22% all
6534 Plant Operations Administration	\$ 51	\$ 6,847	0.0074	31.89% all
6535 Engineering	\$ 27	\$ 6,847	0.0039	16.83% all
6540 Access Expense				
6530 Total Network Operations Expenses (includes provisioning)	\$ 160	\$ 6,847	0.0233	per line network operations
Network Support Factor Calculation				total lines (from net. invest. inputs)
	Expenses	Cable & Wire Inv	Factor	annual net ops per line
6112 Motor Vehicles	\$ 3			
6113 Aircraft	\$ 1			
6114 Special Purpose Vehicles	\$ 0			
6115 Garage Work Equipment	\$ 0			
6116 Other Work Equipment	\$ 1			
Aircraft & Special Purpose Vehicles	\$ 4	\$ 3,790	0.0011	(=total ARMIS 6530/total lines)
				4,085
				\$ 39.11

Customer Operations Expenses

	Expenses		Net Revenues		Factor			
6611 Product Management *	\$	23	\$	0.4638	\$	1,367	0.0166	
6612 Sales *	\$	42	\$	0.8522	\$	1,367	0.0306	
6613 Product Advertising	\$	15			\$	1,367	0.0110	
6610 Total Marketing Expenses	\$	80					0.0582	
6621 Call Completion Service	\$	18			\$	1,367	0.0131	
6622 Number Services	\$	43	\$	0.8863	\$	1,367	0.0318	
6623 Customer Services	\$	143	\$	2.9168	\$	1,367	0.1046	
6620 Total Services Expenses	\$	204	\$	4.23			0.1495	
Billing/bill inquiry (per line/month)	\$	2.30						
Directory listing (per line/month)		-						
700 Total Customer Operations Expenses	\$	283.95			\$	1,367	0.2078	0.2442

Corporate Operations Expenses

Corporate Operations Expense		Expenses	Revenues	Factor		
6711 Executive	\$	11	\$	1,367	0.0079	
6712 Planning	\$	5	\$	1,367	0.0039	
6710 Total Executive & Planning	\$	16	\$	1,367	0.0117	
6721 Accounting & Finance	\$	32	\$	1,367	0.0237	
6722 External Relations	\$	20	\$	1,367	0.0144	
6723 Human Resources	\$	23	\$	1,367	0.0171	
6724 Information Management	\$	89	\$	1,367	0.0653	
6725 Legal	\$	7	\$	1,367	0.0055	
6726 Procurement	\$	4	\$	1,367	0.0030	
6727 Research & Development	\$	5	\$	1,367	0.0038	
6728 Other General & Administrative	\$	76	\$	1,367	0.0554	
6720 Total General & Administrative	\$	257	\$	1,367	0.1880	
710 Total Corporate Operations Expense	\$	273	\$	1,367	0.1040	0.2347
720 Total Operating Expenses	\$	1,163				47.89% Total Operations General Support Allocator
note: does not include dep/amort						45.55% "Office Worker" General Support Allocator

Misc Expenses Calculation	2122 Furniture	2123 Office Equipment	2124 GP Computer	2112 Motor Vehicles	2121 Buildings	2115 Garage Work Equipment	2116 Other Work Equipment
Investment	\$ 34	\$ 87	\$ 134	\$ 89	\$ 258	\$ 3	\$ 70
Investment/TPIS	0.005	0.013	0.020	0.013	0.038	0.000	0.010
Expense	\$ 4	\$ 9	\$ 85	\$ 3	\$ 28	\$ 0	\$ 1
Expense Factor	0.122	0.101	0.638	0.035	0.110	0.035	0.011
Model TPIS	\$ 9,545	\$ 9,545	\$ 9,545	\$ 9,545	\$ 9,545	\$ 9,545	\$ 9,545
Calculated Investment	\$ 47	\$ 121	\$ 186	\$ 125	\$ 360	\$ 4	\$ 97
Calculated Expense	\$ 6	\$ 12	\$ 119	\$ 4	\$ 40	\$ 0	\$ 1
Subtotal (\$s)	\$ 80,513						
Total Misc Expense	\$ 80,513						

Other Taxes & Uncollectibles Calculation

	Expenses		Net Revenues		Factor
7230 Operating State & Local Income Tax	\$	26	\$	(132)	
7240 Operating Other Taxes	\$	109	\$	(132)	0.0500
5300 Uncollectible Revenues	\$	41	\$	1,367	0.0301
retail					0.0227
wholesale					0.0043
Ratio of Net Plant to TPIS					
TPIS	\$	6,847			
Net Plant	\$	6,847			
Ratio	\$	1			
Model Investment	\$	-			
Model % of Net Plant	\$	-			
Model % of TPIS		0%			

Actual 1996 Revenue

		% of total
Interstate Access		
5081 End User	\$ 173	8.26%
5082 Switched Access	\$ 388	18.49%
5083 Special Access	\$ 71	3.40%
Total Inter Access	\$ 633	30.15%
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	\$ 633	30.15%
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	\$ 274	13.08%
Unidirectional LD Revenue		
5110 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 10	0.48%
LD Private Network Revenue		
5120 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 23	1.08%
Other Long Distance Revenue		
5160 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 4	0.17%
Total Long Distance Network Rev		
Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 311	14.81%

Basic Local Service		
5001 Basic Area	\$ 844	40.21%
5002 Optional Extended Area	\$ 26	1.23%
5003 Cellular Mobile	\$ 20	0.95%
5004 Other Mobile Svcs	\$ 2	0.08%
Total Basic Local Service	\$ 891	42.47%
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	\$ 25	1.18%
Local Private Line Revenue		
5040 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total Private Line	\$ 29	1.40%
Customer Premises Revenue		
5050 Station Apparatus	\$ -	0.00%
Customer Premises Wiring	\$ -	0.00%
Total Customer Premises	\$ 2	0.10%
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	\$ 208	9.89%
Total Local Network Service Revenue		
Interstate	\$ -	0.00%
Intrastate	\$ 1,155	55.04%
Total Revenue	\$ 2,099	100.00%

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Expense Module Release 5.0a

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

Scenario Inputs

NOTE: This sheet displays all user adjustable inputs which vary from HM 5.0a default settings

Workfile Name: C:\Program Files\HM50\WORKFILES\HMWKMO4218651.XLS
Distribution Module Name: C:\Program Files\HM50\MODULES\R50a_distribution.xls
Feeder Module Name: C:\Program Files\HM50\MODULES\R50a_feeder.xls
Switching Module Name: C:\Program Files\HM50\MODULES\R50a_switching_io-Dt-HRInd-TransForm-Fiber-Sharing.xls
Expense Module Name: C:\Program Files\HM50\MODULES\R50a_expense_density.xls

Module/Table	Scenario Input	Scenario Value	Default Value
Switching	Use host - remote assignments	TRUE	FALSE

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User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	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	0.95	0.95	Fiber Feeder Strand Fill - 0	1.00	1.00
Buried Fraction - 5	0.95	0.95	Fiber Feeder Strand Fill - 5	1.00	1.00
Buried Fraction - 100	0.95	0.95	Fiber Feeder Strand Fill - 100	1.00	1.00
Buried Fraction - 200	0.95	0.95	Fiber Feeder Strand Fill - 200	1.00	1.00
Buried Fraction - 650	0.95	0.95	Fiber Feeder Strand Fill - 650	1.00	1.00
Buried Fraction - 850	0.85	0.85	Fiber Feeder Strand Fill - 850	1.00	1.00
Buried Fraction - 2550	0.85	0.85	Fiber Feeder Strand Fill - 2550	1.00	1.00
Buried Fraction - 5000	0.86	0.86	Fiber Feeder Strand Fill - 5000	1.00	1.00
Buried Fraction - 10000	0.85	0.85	Fiber Feeder Strand Fill - 10000	1.00	1.00
Aerial Cable Fraction - 0	0.05	0.05	Copper Aerial Fraction - 0	0.05	0.05
Aerial Cable Fraction - 5	0.05	0.05	Copper Aerial Fraction - 5	0.05	0.05
Aerial Cable Fraction - 100	0.05	0.05	Copper Aerial Fraction - 100	0.05	0.05
Aerial Cable Fraction - 200	0.05	0.05	Copper Aerial Fraction - 200	0.05	0.05
Aerial Cable Fraction - 650	0.05	0.05	Copper Aerial Fraction - 650	0.05	0.05
Aerial Cable Fraction - 850	0.05	0.05	Copper Aerial Fraction - 850	0.05	0.05
Aerial Cable Fraction - 2550	0.05	0.05	Copper Aerial Fraction - 2550	0.05	0.05
Aerial Cable Fraction - 5000	0.05	0.05	Copper Aerial Fraction - 5000	0.05	0.05
Aerial Cable Fraction - 10000	0.05	0.05	Copper Aerial Fraction - 10000	0.05	0.05
Pole Spacing, feet - 0	250	250	Copper Buried Fraction - 0	0.95	0.95
Pole Spacing, feet - 5	250	250	Copper Buried Fraction - 5	0.95	0.95
Pole Spacing, feet - 100	200	200	Copper Buried Fraction - 100	0.95	0.95
Pole Spacing, feet - 200	200	200	Copper Buried Fraction - 200	0.95	0.95
Pole Spacing, feet - 650	175	175	Copper Buried Fraction - 650	0.95	0.95
Pole Spacing, feet - 850	175	175	Copper Buried Fraction - 850	0.85	0.85
Pole Spacing, feet - 2550	150	150	Copper Buried Fraction - 2550	0.01	0.01
Pole Spacing, feet - 5000	150	150	Copper Buried Fraction - 5000	0.85	0.85
Pole Spacing, feet - 10000	150	150	Copper Buried Fraction - 10000	0.85	0.85
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	0.05	0.05
Aerial Drop Placement (total) - 5	23.33	23.33	Fiber Aerial Fraction - 5	0.05	0.05
Aerial Drop Placement (total) - 100	17.50	17.50	Fiber Aerial Fraction - 100	0.05	0.05
Aerial Drop Placement (total) - 200	17.50	17.50	Fiber Aerial Fraction - 200	0.05	0.05
Aerial Drop Placement (total) - 650	11.67	11.67	Fiber Aerial Fraction - 650	0.05	0.05
Aerial Drop Placement (total) - 850	11.67	11.67	Fiber Aerial Fraction - 850	0.00	0.00
Aerial Drop Placement (total) - 2550	11.67	11.67	Fiber Aerial Fraction - 2550	0.05	0.05

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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	0.05	0.05
Aerial Drop Placement (total) - 10000	11.67	11.67	Fiber Aerial Fraction - 10000	0.05	0.05
Buried Drop Placement (total) - 0	0.60	0.60	Fiber Buried Fraction - 0	0.95	0.95
Buried Drop Placement (total) - 5	0.60	0.60	Fiber Buried Fraction - 5	0.95	0.95
Buried Drop Placement (total) - 100	0.60	0.60	Fiber Buried Fraction - 100	0.95	0.95
Buried Drop Placement (total) - 200	0.60	0.60	Fiber Buried Fraction - 200	0.95	0.95
Buried Drop Placement (total) - 650	0.60	0.60	Fiber Buried Fraction - 650	0.95	0.95
Buried Drop Placement (total) - 850	0.60	0.60	Fiber Buried Fraction - 850	0.01	0.01
Buried Drop Placement (total) - 2550	0.75	0.75	Fiber Buried Fraction - 2550	0.85	0.85
Buried Drop Placement (total) - 5000	1.50	1.50	Fiber Buried Fraction - 5000	0.85	0.85
Buried Drop Placement (total) - 10000	5.00	5.00	Fiber Buried Fraction - 10000	0.85	0.85
Buried Drop Sharing Fraction - 0	1.00	1.00	Fiber Pullbox Spacing, feet - 0	2,000.00	2,000.00
Buried Drop Sharing Fraction - 5	1.00	1.00	Fiber Pullbox Spacing, feet - 5	2,000.00	2,000.00
Buried Drop Sharing Fraction - 100	1.00	1.00	Fiber Pullbox Spacing, feet - 100	2,000.00	2,000.00
Buried Drop Sharing Fraction - 200	1.00	1.00	Fiber Pullbox Spacing, feet - 200	2,000.00	2,000.00
Buried Drop Sharing Fraction - 650	1.00	1.00	Fiber Pullbox Spacing, feet - 650	2,000.00	2,000.00
Buried Drop Sharing Fraction - 850	1.00	1.00	Fiber Pullbox Spacing, feet - 850	2,000.00	2,000.00
Buried Drop Sharing Fraction - 2550	1.00	1.00	Fiber Pullbox Spacing, feet - 2550	2,000.00	2,000.00
Buried Drop Sharing Fraction - 5000	1.00	1.00	Fiber Pullbox Spacing, feet - 5000	2,000.00	2,000.00
Buried Drop Sharing Fraction - 10000	1.00	1.00	Fiber Pullbox Spacing, feet - 10000	2,000.00	2,000.00
Buried Drop Fraction - 0	0.95	0.95	Fiber Feeder Investment per foot - 216	13.10	13.10
Buried Drop Fraction - 5	0.95	0.95	Fiber Feeder Investment per foot - 144	9.50	9.50
Buried Drop Fraction - 100	0.95	0.95	Fiber Feeder Investment per foot - 96	7.10	7.10
Buried Drop Fraction - 200	0.95	0.95	Fiber Feeder Investment per foot - 72	5.90	5.90
Buried Drop Fraction - 650	0.95	0.95	Fiber Feeder Investment per foot - 60	5.30	5.30
Buried Drop Fraction - 850	0.95	0.95	Fiber Feeder Investment per foot - 48	4.70	4.70
Buried Drop Fraction - 2550	0.95	0.95	Fiber Feeder Investment per foot - 36	4.10	4.10
Buried Drop Fraction - 5000	0.95	0.95	Fiber Feeder Investment per foot - 24	3.50	3.50
Buried Drop Fraction - 10000	0.95	0.95	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 Jacketing 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 (see Labor Inputs)	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
Residential NID basic labor	15.00	15.00	Copper Feeder Investment per foot - 900	10.00	10.00
spare	-	-	Copper Feeder Investment per foot - 600	7.75	7.75
Residential Protection Block, per pair	4.00	4.00	Copper Feeder Investment per foot - 400	6.00	6.00
Business NID case, no protector	25.00	25.00	Copper Feeder Investment per foot - 200	4.25	4.25
Business NID basic labor	15.00	15.00	Copper Feeder Investment per foot - 100	2.50	2.50
Business Protection Block, per pair	4.00	4.00	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 Adjustment Factor (see Labor	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

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User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
DS-1 pair equivalent	2.00	2.00	Pole Spacing, feet - 200	200.00	200.00
DS-3 pair equivalent	56.00	56.00	Pole Spacing, feet - 650	175.00	175.00
Indoor NID case	5.00	5.00	Pole Spacing, feet - 850	175.00	175.00
Buried fraction available for shift - 0	-	-	Pole Spacing, feet - 2550	150.00	150.00
Buried fraction available for shift - 5	-	-	Pole Spacing, feet - 5000	150.00	150.00
Buried fraction available for shift - 100	-	-	Pole Spacing, feet - 10000	150.00	150.00
Buried fraction available for shift - 200	-	-	Buried fraction available for shift - 0	-	-
Buried fraction available for shift - 650	-	-	Buried fraction available for shift - 5	-	-
Buried fraction available for shift - 850	-	-	Buried fraction available for shift - 100	-	-
Buried fraction available for shift - 2550	-	-	Buried fraction available for shift - 200	-	-
Buried fraction available for shift - 5000	-	-	Buried fraction available for shift - 650	-	-
Buried fraction available for shift - 10000	-	-	Buried fraction available for shift - 850	-	-
Wireless Investment Cap Enabled	FALSE	FALSE	Buried fraction available for shift - 2550	-	-
Wireless Point to Point Inv cap - distribution, per line	7,500.00	7,500.00	Buried fraction available for shift - 5000	-	-
Wireless Common inv, broadcast	112,500.00	112,500.00	Buried fraction available for shift - 10000	-	-
Wireless per line inv, broadcast	500.00	500.00	Fiber investment/strand - foot	0.1000	0.10
Maximum broadcast lines for common inv	30.00	30.00	Copper investment/pair - foot	0.0075	0.01
High Density DLC Site and Power	3,000.00	3,000.00	Copper Manhole Materials - 0	1865	1,865.00
High Density DLC Maximum Lines/Increment	672.00	672.00	Copper Manhole Materials - 5	1865	1,865.00
High Density DLC RT Fill Factor	0.90	0.90	Copper Manhole Materials - 100	1865	1,865.00
High Density DLC Basic Common Eqpt Invest + initial lines	66,000.00	66,000.00	Copper Manhole Materials - 200	1865	1,865.00
High Density DLC POTS Channel Unit Investment	310.00	310.00	Copper Manhole Materials - 650	1865	1,865.00
High Density DLC POTS Lines per CU	4.00	4.00	Copper Manhole Materials - 850	1865	1,865.00
High Density DLC Coin Channel Unit Investment	250.00	250.00	Copper Manhole Materials - 2550	1865	1,865.00
High Density DLC Coin Lines per CU	2.00	2.00	Copper Manhole Materials - 5000	1865	1,865.00
High Density DLC 303/LD crossover, lines	480.00	480.00	Copper Manhole Materials - 10000	1865	1,865.00
High Density DLC Fibers per RT	4.00	4.00	Copper Manhole Frame and Cover - 0	350.00	350.00
High Density DLC Optical Patch Panel	1,000.00	1,000.00	Copper Manhole Frame and Cover - 5	350.00	350.00
High Density DLC Copper Feeder Max Distance, ft	9,000.00	9,000.00	Copper Manhole Frame and Cover - 100	350.00	350.00
High Density DLC Common Eqpt Invest per additional 672 lines	18,500.00	18,500.00	Copper Manhole Frame and Cover - 200	350.00	350.00
High Density DLC Maximum Number of additional line modules/R	2.00	2.00	Copper Manhole Frame and Cover - 650	350.00	350.00
Low Density DLC Site and Power	1,300	1,300	Copper Manhole Frame and Cover - 850	350.00	350.00
Low Density DLC Maximum Lines/Increment	120.00	120.00	Copper Manhole Frame and Cover - 2550	350.00	350.00
Low Density DLC RT Fill Factor	0.90	0.90	Copper Manhole Frame and Cover - 5000	350.00	350.00
Low Density DLC Basic Common Eqpt Invest + initial lines	16,000.00	16,000.00	Copper Manhole Frame and Cover - 10000	350.00	350.00
Low Density DLC POTS Channel Unit Investment	600.00	600.00	Copper Manhole Site Delivery - 0	125.00	125.00
Low Density DLC POTS Lines per CU	6.00	6.00	Copper Manhole Site Delivery - 5	125.00	125.00
Low Density DLC Coin Channel Unit Investment	600.00	600.00	Copper Manhole Site Delivery - 100	125.00	125.00
Low Density DLC Coin Lines per CU	6.00	6.00	Copper Manhole Site Delivery - 200	125.00	125.00
Low Density DLC Fibers per RT	4.00	4.00	Copper Manhole Site Delivery - 650	125.00	125.00
Low Density DLC Optical Patch Panel	1,000.00	1,000.00	Copper Manhole Site Delivery - 850	125.00	125.00
Low Density DLC Common Eqpt Invest per additional 96 lines	9,400.00	9,400.00	Copper Manhole Site Delivery - 2550	125.00	125.00
Low Density DLC Maximum Number of additional line modules/R	1.00	1.00	Copper Manhole Site Delivery - 5000	125.00	125.00
Distribution Cable Size 1	2,400.00	2,400.00	Copper Manhole Site Delivery - 10000	125.00	125.00
Distribution Cable Size 2	1,800.00	1,800.00	Copper Manhole Excavate and Backfill - 0	2,800	2,800
Distribution Cable Size 3	1,200.00	1,200.00	Copper Manhole Excavate and Backfill - 5	2,800	2,800
Distribution Cable Size 4	900.00	900.00	Copper Manhole Excavate and Backfill - 100	2,800	2,800
Distribution Cable Size 5	600.00	600.00	Copper Manhole Excavate and Backfill - 200	2,800	2,800
Distribution Cable Size 6	400.00	400.00	Copper Manhole Excavate and Backfill - 650	3,200	3,200
Distribution Cable Size 7	200.00	200.00	Copper Manhole Excavate and Backfill - 850	3,500	3,500
Distribution Cable Size 8	100.00	100.00	Copper Manhole Excavate and Backfill - 2550	3,500	3,500
Distribution Cable Size 9	50.00	50.00	Copper Manhole Excavate and Backfill - 5000	5,000	5,000

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User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
Distribution Cable Size 10	25.00	25.00	Copper Manhole Excavate and Backfill - 1000	5,000	5,000
Distribution Cable Size 11	12.00	12.00	Fiber Pullbox Materials - 0	280.00	280.00
Distribution Cable Size 12	6.00	6.00	Fiber Pullbox Materials - 5	280.00	280.00
Distribution Cable Investment per foot 1	20.00	20.00	Fiber Pullbox Materials - 100	280.00	280.00
Distribution Cable Investment per foot 2	16.00	16.00	Fiber Pullbox Materials - 200	280.00	280.00
Distribution Cable Investment per foot 3	12.00	12.00	Fiber Pullbox Materials - 650	280.00	280.00
Distribution Cable Investment per foot 4	10.00	10.00	Fiber Pullbox Materials - 850	280.00	280.00
Distribution Cable Investment per foot 5	7.75	7.75	Fiber Pullbox Materials - 2550	280.00	280.00
Distribution Cable Investment per foot 6	6.00	6.00	Fiber Pullbox Materials - 5000	280.00	280.00
Distribution Cable Investment per foot 7	4.25	4.25	Fiber Pullbox Materials - 10000	280.00	280.00
Distribution Cable Investment per foot 8	2.50	2.50	Fiber Pullbox Installation - 0	220.00	220.00
Distribution Cable Investment per foot 9	1.63	1.63	Fiber Pullbox Installation - 5	220.00	220.00
Distribution Cable Investment per foot 10	1.19	1.19	Fiber Pullbox Installation - 100	220.00	220.00
Distribution Cable Investment per foot 11	0.76	0.76	Fiber Pullbox Installation - 200	220.00	220.00
Distribution Cable Investment per foot 12	0.63	0.63	Fiber Pullbox Installation - 650	220.00	220.00
Distribution Riser Cable Size 1	2,400.00	2,400.00	Fiber Pullbox Installation - 850	220.00	220.00
Distribution Riser Cable Size 2	1,800.00	1,800.00	Fiber Pullbox Installation - 2550	220.00	220.00
Distribution Riser Cable Size 3	1,200.00	1,200.00	Fiber Pullbox Installation - 5000	220.00	220.00
Distribution Riser Cable Size 4	900.00	900.00	Fiber Pullbox Installation - 10000	220.00	220.00
Distribution Riser Cable Size 5	600.00	600.00	Dewatering factor manhole excavation (additi	0.20	0.20
Distribution Riser Cable Size 6	400.00	400.00	Water table depth for dewatering, ft	5.00	5.00
Distribution Riser Cable Size 7	200.00	200.00			
Distribution Riser Cable Size 8	100.00	100.00			
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	25.00	25.00			
Distribution Riser Cable Investment per foot 2	20.00	20.00			
Distribution Riser Cable Investment per foot 3	15.00	15.00			
Distribution Riser Cable Investment per foot 4	12.50	12.50			
Distribution Riser Cable Investment per foot 5	10.00	10.00			
Distribution Riser Cable Investment per foot 6	7.50	7.50			
Distribution Riser Cable Investment per foot 7	5.30	5.30			
Distribution Riser Cable Investment per foot 8	3.15	3.15			
Distribution Riser Cable Investment per foot 9	2.05	2.05			
Distribution Riser Cable Investment per foot 10	1.50	1.50			
Distribution Riser Cable Investment per foot 11	0.95	0.95			
Distribution Riser Cable Investment per foot 12	0.80	0.80			
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			
SAI Cable Size 1	7,200.00	7,200.00			
SAI Cable Size 2	5,400.00	5,400.00			
SAI Cable Size 3	3,600.00	3,600.00			
SAI Cable Size 4	2,400.00	2,400.00			
SAI Cable Size 5	1,800	1,800			
SAI Cable Size 6	1,200	1,200			
SAI Cable Size 7	900	900			

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User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
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	9,656	9,656			
SAI Indoor Investment 2	7,392	7,392			
SAI Indoor Investment 3	4,928	4,928			
SAI Indoor Investment 4	3,352	3,352			
SAI Indoor Investment 5	2,464.00	2,464.00			
SAI Indoor Investment 6	1,776.00	1,776.00			
SAI Indoor Investment 7	1,232.00	1,232.00			
SAI Indoor Investment 8	888.00	888.00			
SAI Indoor Investment 9	592.00	592.00			
SAI Indoor Investment 10	296.00	296.00			
SAI Indoor Investment 11	148.00	148.00			
SAI Indoor Investment 12	98.00	98.00			
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	527.00	527.00			
Integrated COT, installed	420.00	420.00			
Remote Multiplexer Common Equip Inv, installed	8,200.00	8,200.00			
Channel Unit Investment, per subscriber	125.00	125.00			
COT investment per RT, installed	1,170.00	1,170.00			
Remote Terminal fill factor	0.90	0.90			
Maximum T1s per cable	8.00	8.00			
T1 repeater spacing, dB	32.00	32.00			
Aerial T1 attenuation, dB/kft	6.30	6.30			
Buried T1 attenuation, dB/kft	5.00	5.00			
Feeder steering enable	FALSE	FALSE			
Main feeder route/air multiplier	1	1			
Rectangular cluster switch	FALSE	FALSE			

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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	520.14	520.14	Cost of Debt	0.088	0.088
Constant EO Switching Investment Term, BOC and large ICO	242.73	242.73	Debt Fraction	0.442	0.442
Switch Capacity Real-Time (BHCA) - 1	10,000	10,000	Cost of Equity	0.132	0.132
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	0.050	0.050
Switch Capacity Traffic (BHCCS) - 2	150,000	150,000	Billing/Bill Inquiry per line per month	2.300	2.300
Switch Capacity Traffic (BHCCS) - 3	600,000	600,000	Directory Listing per line per month	-	-
Switch Capacity Traffic (BHCCS) - 4	1,800,000	1,800,000	Forward-looking Network Operations Factor	1.000	1.000
Initial Switch Maximum Equipped Line Size	80,000	80,000	Alternative CO Switching Factor	0.048	0.048
Switch Port Administrative Fill	0.94	0.94	Alternative Circuit Equipment Factor	0.015	0.015
Switch Maximim Processor Occupancy	0.90	0.90	EO Traffic Sensitive Fraction	0.700	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 ye	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	-	-	DS-0/DS-1 Terminal Factor	12.4	12.4
Analog Line Circuit Offset for DLC lines, per line	-	-	DS-1/DS-3 Terminal Factor	9.9	9.9
Switch Installation Multiplier	1.00	1.00	Average Lines per Business Location	4	4
Operator Traffic Fraction	0.02	0.02	Distribution Aerial Shring Fraction - 0	1.00	1.00
Total Interoffice Traffic Fraction	0.40	0.40	Distribution Aerial Shring Fraction - 5	1.00	1.00
Maximum Trunk Occupancy, CCS	27.50	27.50	Distribution Aerial Shring Fraction - 100	1.00	1.00
Trunk Port, per end	100.00	100.00	Distribution Aerial Shring Fraction - 200	0.50	0.50
Entrance Facility Distance, miles	0.50	0.50	Distribution Aerial Shring Fraction - 650	0.50	0.50
Direct-routed Fraction of Local Interoffice	0.98	0.98	Distribution Aerial Shring Fraction - 850	0.50	0.50
POPs per Tandem Location	5.00	5.00	Distribution Aerial Shring Fraction - 2550	0.50	0.50
Tandem-routed Fraction of Total IntraLATA Traffic	1.00	1.00	Distribution Aerial Shring Fraction - 5000	0.50	0.50
Tandem-routed Fraction of Total InterLATA Traffic	1.00	1.00	Distribution Aerial Shring Fraction - 10000	0.50	0.50
Local Call Attempts	10,532	10,532	Distribution Buried Shring Fraction - 0	1.00	1.00
Call Completion Factor	0.70	0.70	Distribution Buried Shring Fraction - 5	1.00	1.00
IntraLATA Calls Completed	630	630	Distribution Buried Shring Fraction - 100	1.00	1.00
InterLATA intrastate Calls Completed	634	634	Distribution Buried Shring Fraction - 200	1.00	1.00
InterLATA interstate Calls Completed	1,349	1,349	Distribution Buried Shring Fraction - 650	1.00	1.00
Local DEMs, thousands	46,483	46,483	Distribution Buried Shring Fraction - 850	1.00	1.00
Intrastate DEMs, thousands	9,925	9,925	Distribution Buried Shring Fraction - 2550	1.00	1.00
Interstate DEMs, thousands	9,799	9,799	Distribution Buried Shring Fraction - 5000	1.00	1.00
Local Business/Residence DEMs	1.10	1.10	Distribution Buried Shring Fraction - 10000	1.00	1.00
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	1.00	1.00
BH Fraction of Daily Usage	0.10	0.10	Distribution Underground Shring Fraction - 100	1.00	1.00
Annual to Daily Usage Reduction Factor	270.00	270.00	Distribution Underground Shring Fraction - 200	1.00	1.00
Residential Holding Time Multiplier	1.00	1.00	Distribution Underground Shring Fraction - 650	1.00	1.00
Business Holding Time Multiplier	1.00	1.00	Distribution Underground Shring Fraction - 850	1.00	1.00
Residential Call Attempts per BH	1.30	1.30	Distribution Underground Shring Fraction - 2550	1.00	1.00
Business Call Attempts per BH	3.50	3.50	Distribution Underground Shring Fraction - 5000	1.00	1.00
ICO STP Investment, per line (equipment)	5.50	5.50	Distribution Underground Shring Fraction - 10000	1.00	1.00
ICO Local Tandem Investment, per line	1.90	1.90	Feeder Aerial Shring Fraction - 0	1.00	1.00
ICO OS Tandem Investment, per line	0.80	0.80	Feeder Aerial Shring Fraction - 5	1.00	1.00
ICO SCP Investment per line (equipment)	2.50	2.50	Feeder Aerial Shring Fraction - 100	1.00	1.00
ICO SCP - STP per line (wirecenter)	0.40	0.40	Feeder Aerial Shring Fraction - 200	0.50	0.50
ICO Local Tandem Investment, per line (wirecenter)	2.50	2.50	Feeder Aerial Shring Fraction - 650	0.50	0.50
ICO OS Tandem Investment, per line (wirecenter)	1.00	1.00	Feeder Aerial Shring Fraction - 850	0.50	0.50

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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	0.50	0.50
Real-time Limit, BHCA	750,000	750,000	Feeder Aerial Shring Fraction - 5000	0.50	0.50
Port Limit, trunks	100,000	100,000	Feeder Aerial Shring Fraction - 10000	0.50	0.50
Common Equipment Investment	1,000,000	1,000,000	Feeder Underground Shring Fraction - 0	1.00	1.00
Maximum Port Fill	0.90	0.90	Feeder Underground Shring Fraction - 5	1.00	1.00
Maximum Real-time Occupancy	0.90	0.90	Feeder Underground Shring Fraction - 100	1.00	1.00
Common Equipment Intercept Factor	0.50	0.50	Feeder Underground Shring Fraction - 200	1.00	1.00
STP Link Capacity	720	720	Feeder Underground Shring Fraction - 650	1.00	1.00
STP Maximum Link Fill	0.80	0.80	Feeder Underground Shring Fraction - 850	1.00	1.00
Maximum STP Investment, per pair	5,000,000	5,000,000	Feeder Underground Shring Fraction - 2550	1.00	1.00
Minimum STP Investment, per pair	1,000,000	1,000,000	Feeder Underground Shring Fraction - 5000	1.00	1.00
Link Termination, both ends	900	900	Feeder Underground Shring Fraction - 10000	1.00	1.00
Signaling Link Bit Rate	56,000	56,000	Feeder Buried Shring Fraction - 0	1.00	1.00
Link Occupancy	0.40	0.40	Feeder Buried Shring Fraction - 5	1.00	1.00
C Link Cross Section	24.00	24.00	Feeder Buried Shring Fraction - 100	1.00	1.00
ISUP Messages per Interoffice BHCA	6.00	6.00	Feeder Buried Shring Fraction - 200	1.00	1.00
ISUP Message Length, bytes	25.00	25.00	Feeder Buried Shring Fraction - 650	1.00	1.00
TCAP Messages per transaction	2.00	2.00	Feeder Buried Shring Fraction - 850	1.00	1.00
TCAP Message length, bytes	100.00	100.00	Feeder Buried Shring Fraction - 2550	1.00	1.00
Fraction of BHCA requiring TCAP	0.10	0.10	Feeder Buried Shring Fraction - 5000	1.00	1.00
SCP Investment/Transaction/Second	20,000	20,000	Feeder Buried Shring Fraction - 10000	1.00	1.00
Operator Investment per position	6,400	6,400	Motor Vehicles - Economic Life	9.28	9.28
Operator Maximum Utilization, per position, CCS	32	32	Garage Work Equipment - Economic Life	11.04	11.04
Operator Intervention Factor	10	10	Other Work Equipment - Economic Life	13.47	13.47
Public Telephone Investment, per station	760	760	Buildings - Economic Life	47.82	47.82
Lot Size, Multiplier of Switch Room Size	2	2	Furniture - Economic Life	17.10	17.10
Tandem/EO Wire Center Common Factor	0.40	0.40	Office Support Equipment - Economic Life	11.58	11.58
Power Investment 1	-	-	Company Comm. Equipment - Economic Life	7.69	7.69
Power Investment 2	-	-	General Purpose Computer - Economic Life	6.36	6.36
Power Investment 3	-	-	Digital Electronic Switching - Economic Life	16.66	16.66
Power Investment 4	-	-	Operator Systems - Economic Life	9.33	9.33
Power Investment 5	-	-	Digital Circuit Equipment - Economic Life	10.07	10.07
Switch Room Size, sq ft 1	500	500	Public Telephone Terminal Equipment - Economic	8.26	8.26
Switch Room Size, sq ft 2	1,000	1,000	Poles - Economic Life	15.92	15.92
Switch Room Size, sq ft 3	2,000	2,000	Aerial Cable - metallic - Economic Life	16.75	16.75
Switch Room Size, sq ft 4	5,000	5,000	Aerial Cable - non metallic - Economic Life	22.24	22.24
Switch Room Size, sq ft 5	10,000	10,000	Underground Cable - metallic - Economic Life	21.14	21.14
Construction Investment, sq ft 1	75.00	75.00	Underground Cable - non metallic - Economic Life	23.08	23.08
Construction Investment, sq ft 2	85.00	85.00	Buried - metallic - Economic Life	19.90	19.90
Construction Investment, sq ft 3	100.00	100.00	Buried - non metallic - Economic Life	23.86	23.86
Construction Investment, sq ft 4	125.00	125.00	Intrabuilding Cable - metallic - Economic Life	15.71	15.71
Construction Investment, sq ft 5	150.00	150.00	Intrabuilding Cable - non metallic - Economic Life	23.62	23.62
Land Investment, sq ft 1	5	5	Conduit Systems - Economic Life	50.92	50.92
Land Investment, sq ft 2	8	8	Motor Vehicles - Net Salvage %	0.1121	0.1121
Land Investment, sq ft 3	10	10	Garage Work Equipment - Net Salvage %	-0.1071	-0.1071
Land Investment, sq ft 4	15	15	Other Work Equipment - Net Salvage %	0.0321	0.0321
Land Investment, sq ft 5	20	20	Buildings - Net Salvage %	0.0187	0.0187
OC-48 ADM, installed, 48 DS-3s	50,000	50,000	Furniture - Net Salvage %	0.0688	0.0688
OC-48 ADM, installed, 12 DS-3s	40,000	40,000	Office Support Equipment - Net Salvage %	0.0691	0.0691
OC-3/DS-1 Terminal Multiplexer, installed, 84 DS-1s	26,000	26,000	Company Comm. Equipment - Net Salvage %	0.0376	0.0376
Investment per 7 DS-1s	500	500	General Purpose Computer - Net Salvage %	0.0373	0.0373
Number of Fibers	24	24	Digital Electronic Switching - Net Salvage %	0.0297	0.0297

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User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
Pigtrails, per strand	60	60	Operator Systems - Net Salvage %	-0.0082	-0.0082
Optical Distribution Panel	1,000	1,000	Digital Circuit Equipment - Net Salvage %	-0.0169	-0.0169
EF&I, per hour	55	55	Public Telephone Terminal Equipment - Net Salvage %	0.0797	0.0797
EF&I hours	32	32	Poles - Net Salvage %	-0.8998	-0.8998
Regional Labor Adjustment Factor (see Labor Inputs)	1	1	Aerial Cable - metallic - Net Salvage %	-0.2303	-0.2303
Channel Bank Investment, per 24 lines	5,000	5,000	Aerial Cable - non metallic - Net Salvage %	-0.1753	-0.1753
Fraction of SA Lines Requiring Multiplexing	-	-	Underground Cable - metallic - Net Salvage %	-0.1826	-0.1826
Regenerator, installed	15,000	15,000	Underground Cable - non metallic - Net Salvage %	-0.1458	-0.1458
Regenerator spacing, miles	40	40	Buried - metallic - Net Salvage %	-0.0839	-0.0839
DCS installed, per DS-3	30,000	30,000	Buried - non metallic - Net Salvage %	-0.0858	-0.0858
Transmission Terminal Fill (DS-0 level)	0.90	0.90	Intrabuilding Cable - metallic - Net Salvage %	-0.1574	-0.1574
Fiber Investment, fiber cable	3.50	3.50	Intrabuilding Cable - non metallic - Net Salvage %	-0.1052	-0.1052
Fiber, number of strands per ADM	4.00	4.00	Conduit Systems - Net Salvage %	-0.1034	-0.1034
Fiber Investment, buried fraction	0.95	0.95	Furniture - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, buried placement	1.77	1.77	Furniture - Expenses - % assigned per line	0.0000	0.0000
Fiber Investment, buried sheath addition	0.20	0.20	Office Equipment - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, conduit	0.60	0.60	Office Equipment - Expenses - % assigned per line	0.0000	0.0000
Fiber, spare tubes per route	1.00	1.00	General Purpose Computer - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, conduit placement	16.40	16.40	General Purpose Computer - Expenses - % assigned per line	0.0000	0.0000
Fiber, pullbox spacing	2,000.00	2,000.00	Motor Vehicles - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, pullbox investment	500.00	500.00	Motor Vehicles - Expenses - % assigned per line	0.0000	0.0000
Fiber, aerial fraction	0.05	0.05	Buildings - Capital Costs - % assigned per line	0.0000	0.0000
Fiber, pole spacing, feet	150.00	150.00	Buildings - Expenses - % assigned per line	0.0000	0.0000
Fiber Investment, pole material	201.00	201.00	Garage Work Eqpt. - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, pole labor (basic)	216.00	216.00	Garage Work Eqpt. - Expenses - % assigned per line	0.0000	0.0000
Fraction Poles and Buried/Underground Placement Common with Feed	0.75	0.75	Other Work Eqpt. - Capital Costs - % assigned per line	0.0000	0.0000
Fraction of Aerial Structure Assigned to Telephone	0.50	0.50	Other Work Eqpt. - Expenses - % assigned per line	0.0000	0.0000
Fraction of Buried Structure Assigned to Telephone	1.00	1.00	Network Operations - % assigned per line	0.0000	0.0000
Fraction of Underground Structure Assigned to Telephone	1.00	1.00	Other Taxes - % assigned per line	0.0000	0.0000
Multiplicative EO Switching Investment Term	-14.922	(14.92)	Variable Overhead - % assigned per line	0.0000	0.0000
Threshold value for off-ring wire centers, total lines	1	1.00			
Remote-host fraction of interoffice traffic -- remote	0.1	0.10			
Host-remote fraction of interoffice traffic -- host	0.05	0.05			
Maximum nodes per ring	16	16.00			
Use host - remote assignments	TRUE	FALSE			
Ring transiting traffic factor	0.4	0.40			
Intertandem fraction of tandem trunks (additive)	0.1	0.10			
Equivalent facility investment, per DS-0	138.08	138.08			
Equivalent terminal investment, per DS-0	111.62	111.62			
Switch line size - 1	0	-			
Switch line size - 2	640	640.00			
Switch line size - 3	5000	5,000.00			
Switch line size - 4	10000	10,000.00			
BOC standalone fixed inv - 1	428296	428,296.00			
BOC standalone fixed inv - 2	428296	428,296.00			
BOC standalone fixed inv - 3	428296	428,296.00			
BOC standalone fixed inv - 4	428296	428,296.00			
BOC host fixed inv - 1	428296	428,296.00			
BOC host fixed inv - 2	468700	468,700.00			
BOC host fixed inv - 3	468700	468,700.00			
BOC host fixed inv - 4	468700	468,700.00			
BOC remote fixed inv - 1	142384	142,384.00			

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User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
BOC remote fixed inv - 2	142384	142,384.00			
BOC remote fixed inv - 3	142384	142,384.00			
BOC remote fixed inv - 4	142384	142,384.00			
BOC standalone per line inv - 1	76.56	76.56			
BOC standalone per line inv - 2	76.56	76.56			
BOC standalone per line inv - 3	76.56	76.56			
BOC standalone per line inv - 4	76.56	76.56			
BOC host per line inv - 1	76.56	76.56			
BOC host per line inv - 2	76.56	76.56			
BOC host per line inv - 3	76.56	76.56			
BOC host per line inv - 4	76.56	76.56			
BOC remote per line inv - 1	76.56	76.56			
BOC remote per line inv - 2	76.56	76.56			
BOC remote per line inv - 3	76.56	76.56			
BOC remote per line inv - 4	76.56	76.56			
ICO standalone fixed inv - 1	428296	428,296.00			
ICO standalone fixed inv - 2	468700	468,700.00			
ICO standalone fixed inv - 3	428296	428,296.00			
ICO standalone fixed inv - 4	428296	428,296.00			
ICO host fixed inv - 1	468700	468,700.00			
ICO host fixed inv - 2	468700	468,700.00			
ICO host fixed inv - 3	468700	468,700.00			
ICO host fixed inv - 4	468700	468,700.00			
ICO remote fixed inv - 1	142384	142,384.00			
ICO remote fixed inv - 2	142384	142,384.00			
ICO remote fixed inv - 3	142384	142,384.00			
ICO remote fixed inv - 4	142384	142,384.00			
ICO standalone per line inv - 1	76.56	76.56			
ICO standalone per line inv - 2	76.56	76.56			
ICO standalone per line inv - 3	76.56	76.56			
ICO standalone per line inv - 4	76.56	76.56			
ICO host per line inv - 1	76.56	76.56			
ICO host per line inv - 2	76.56	76.56			
ICO host per line inv - 3	76.56	76.56			
ICO host per line inv - 4	76.56	76.56			
ICO remote per line inv - 1	76.56	76.56			
ICO remote per line inv - 2	76.56	76.56			
ICO remote per line inv - 3	76.56	76.56			
ICO remote per line inv - 4	76.56	76.56			

HAI Model Release 5.0a
User Adjustable Inputs

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