

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	2,752	66	2,674	11	1	21	2,563	\$ -	\$ -	\$ -	\$ -	\$ 4,410,850	\$ 216,890	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,728,973
5	DLC	1,101	309	737	50	5	7	700	\$ -	\$ -	\$ -	\$ -	\$ 854,751	\$ 42,455	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 424,608
100	DLC																			
200	DLC																			
650	DLC																			
850	DLC																			
2550	DLC																			
5000	DLC																			
10000	DLC																			
0	non-DLC	96	-	96	-	-	-	92	\$ -	\$ 19,876	\$ 1,006	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,767	\$ -
5	non-DLC	125	-	125	-	-	-	119	\$ -	\$ 8,837	\$ 447	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 801	\$ -
100	non-DLC																			
200	non-DLC																			
650	non-DLC																			
850	non-DLC																			
2550	non-DLC																			
5000	non-DLC																			
10000	non-DLC																			
Totals/Avg		4,074	374	3,632	61	6	29	3,474	\$ -	\$ 28,713	\$ 1,453	\$ -	\$ 5,265,602	\$ 259,345	\$ -	\$ -	\$ -	\$ -	\$ 3,568	\$ 2,153,581

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	\$ 153,004	\$ -	\$ 3,333,170	\$ 168,683	\$ -	\$ -	\$ 5,126,397	\$ 315,252	0.00%	32.26%	0.00%	\$ 2,173,684	\$ 36,800	\$ 231,013	\$ 277,548	\$ 75,887	1,502,812
5	DLC	\$ 35,518	\$ -	\$ 900,498	\$ 45,572	\$ -	\$ -	\$ 1,132,951	\$ 66,720	0.00%	30.34%	0.00%	\$ 478,480	\$ 10,900	\$ 92,453	\$ 88,676	\$ 25,687	225,626
100	DLC																	
200	DLC																	
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC	\$ 7,856	\$ -	\$ 85,183	\$ 4,311	\$ -	\$ -	\$ 120,947	\$ 6,672	48.20%	48.20%	48.20%	\$ -	\$ 1,000	\$ 8,092	\$ 9,906	\$ 2,693	4,734
5	non-DLC	\$ 5,412	\$ -	\$ 124,637	\$ 6,308	\$ -	\$ -	\$ 122,490	\$ 6,672	62.26%	31.13%	62.26%	\$ -	\$ 1,400	\$ 10,454	\$ 12,799	\$ 3,479	2,105
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ 201,790	\$ -	\$ 4,443,488	\$ 224,873	\$ -	\$ -	\$ 6,502,784	\$ 395,316				\$ 2,652,165	\$ 50,100	\$ 342,013	\$ 388,928	\$ 107,747	1,735,276

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	2,987,053	2,752	\$	2,135,923	\$	-	\$	406,503	\$	57,909	\$	303,729	\$	614,748	\$	687,737	\$	1,024,579	\$	418,126	\$	4,000	\$	2,386,821	\$	72,082	\$	43,979	\$	-		
5	DLC	662,748	1,101	\$	625,042	\$	-	\$	93,269	\$	9,278	\$	111,430	\$	235,705	\$	262,989	\$	392,842	\$	72,971	\$	1,534	\$	447,588	\$	13,849	\$	8,237	\$	-		
100	DLC																																
200	DLC																																
650	DLC																																
850	DLC																																
2550	DLC																																
5000	DLC																																
10000	DLC																																
0	non-DLC	71,928	-	\$	81,772	\$	-	\$	16,445	\$	2,003	\$	10,331	\$	21,619	\$	24,141	\$	36,031	\$	10,376	\$	141	\$	62,239	\$	1,844	\$	1,253	\$	-		
5	non-DLC	72,846	-	\$	67,034	\$	-	\$	8,783	\$	811	\$	13,520	\$	27,928	\$	31,173	\$	46,547	\$	10,903	\$	182	\$	73,688	\$	2,330	\$	1,367	\$	-		
100	non-DLC																																
200	non-DLC																																
650	non-DLC																																
850	non-DLC																																
2550	non-DLC																																
5000	non-DLC																																
10000	non-DLC																																
Totals/Avg		3,794,573	3,853	\$	2,909,771	\$	-	\$	625,000	\$	70,000	\$	439,010	\$	900,000	\$	1,006,039	\$	1,500,000	\$	512,376	\$	5,856	\$	-	\$	2,970,335	\$	90,105	\$	54,836	\$	-

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		\$ 504,971		\$ 967,759	\$ 29,418	\$ 17,990	\$ -		\$ 200,468		\$ 268,779	\$ 8,380	\$ 4,954	\$ -		\$ 257,474	65
5	DLC		\$ 100,449		\$ 160,079	\$ 4,934	\$ 2,949	\$ -		\$ 36,833		\$ 310,054	\$ 9,685	\$ 5,558	\$ -		\$ 142,053	16
100	DLC																	
200	DLC																	
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC		\$ 15,992		\$ 28,008	\$ 830	\$ 564	\$ -		\$ 7,196		\$ 3,112	\$ 92	\$ 63	\$ -		\$ 7,977	2
5	non-DLC		\$ 14,890		\$ 22,300	\$ 705	\$ 414	\$ -		\$ 4,506		\$ 60,118	\$ 1,901	\$ 1,115	\$ -		\$ 21,421	2
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ -	\$ 636,301	\$ -	\$ 1,178,146	\$ 35,887	\$ 21,916	\$ -	\$ -	\$ 249,003	\$ -	\$ 642,064	\$ 20,058	\$ 11,690	\$ -	\$ -	\$ 428,925	85

HA																
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	Total Investment	
0	DLC	25	12	93	41	201	47	6,853	\$ 1,096	\$ 15,076	\$ 227,677	\$ 1,275	42,098,318	1,550,879	28,916,457	
5	DLC	4	2	23	59	53	11	2,627	\$ 420	\$ 5,780	\$ 24,234	\$ 3,066	11,603,296	7,291,804	7,282,725	
100	DLC														-	
200	DLC														-	
650	DLC														-	
850	DLC														-	
2550	DLC														-	
5000	DLC														-	
10000	DLC														-	
0	non-DLC	1	0	2	0	5	1	241	\$ 39	\$ 530	\$ 6,946	-	1,517,410	-	610,090	
5	non-DLC	0	0	3	10	8	1	311	\$ 50	\$ 685	\$ 2,460	\$ 326	1,960,292	-	719,204	
100	non-DLC														-	
200	non-DLC														-	
650	non-DLC														-	
850	non-DLC														-	
2550	non-DLC														-	
5000	non-DLC														-	
10000	non-DLC														-	
Totals/Avg		30	14	122	110	267	61	10,033	\$ 1,605	\$ 22,072	\$ 261,317	\$ 4,666	57,179,316	8,842,684	37,528,476	

Universal Service Calculation Sheet - monthly costs per line

Missouri
Mark Twain Rural Telephone Co

	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	\$ 142.00	\$ 80.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 123.92
Port	6.26	6.26	-	-	-	-	-	-	-	6.26
End office usage	8.31	8.31	-	-	-	-	-	-	-	8.31
Signaling	0.43	0.43	-	-	-	-	-	-	-	0.43
Transport	8.16	8.16	-	-	-	-	-	-	-	8.16
Local retail costs										
Billing/bill inquiries	\$ 2.74	\$ 2.74	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.74
Directory listing	-	-	-	-	-	-	-	-	-	-
LNP expense (when available)	0.30	0.30	-	-	-	-	-	-	-	0.30
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Basic Local Service										
Avg monthly cost per line	\$ 168.18	\$ 106.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150.10
@ Residence usage per line	\$ 167.99	\$ 106.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 153.35
@ Business usage per line	\$ 169.96	\$ 108.24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 119.07
Total switched lines	2,837	1,176	-	-	-	-	-	-	-	4,013
Primary residence lines	2,655	819	-	-	-	-	-	-	-	3,474
Secondary residence lines	116	43	-	-	-	-	-	-	-	158
Single line business lines	21	7	-	-	-	-	-	-	-	29
Multiline business lines	44	301	-	-	-	-	-	-	-	346
Public lines	1	5	-	-	-	-	-	-	-	6
FEDERAL FUND ANALYSIS										
Annual Support										
for line types:	Specify	Bench								
Primary residence lines	X	\$31.00	\$ 4,364,793	\$ 739,533	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,104,326
Secondary residence lines		\$31.00	\$ 189,898	\$ 38,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 228,598
Single line business lines	X	\$51.00	\$ 30,325	\$ 5,036	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,360
Multiline business lines		\$51.00	\$ 63,437	\$ 207,082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270,520
Public lines		\$51.00	\$ 1,537	\$ 3,477	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,014
Support cost if all lines supported			\$ 4,649,990	\$ 993,829	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,643,818
Total annual support for specified lines										
@25% Federal allocation			\$ 1,098,779	\$ 186,142	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,284,922
@Implied 75% State allocation			\$ 3,296,338	\$ 558,427	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,854,765

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

\$20.00	\$ 4,715,281	\$ 847,614	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,562,895
\$30.00	\$ 4,396,655	\$ 749,359	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,146,014
\$40.00	\$ 4,078,030	\$ 651,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,729,134
\$50.00	\$ 3,759,405	\$ 552,849	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,312,254
\$60.00	\$ 3,440,780	\$ 454,594	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,895,374
\$70.00	\$ 3,122,155	\$ 356,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,478,493
\$80.00	\$ 2,803,530	\$ 258,084	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,061,613

STATE FUND ANALYSIS															
Annual Support for line types:		Specify	Bench mark												
Primary residence lines	X	\$31.00	\$	4,364,793	\$	739,533	\$	-	\$	-	\$	-	\$	-	\$ 5,104,326
Secondary residence lines		\$31.00	\$	189,898	\$	38,700	\$	-	\$	-	\$	-	\$	-	\$ 228,598
Single line business lines	X	\$51.00	\$	30,325	\$	5,036	\$	-	\$	-	\$	-	\$	-	\$ 35,360
Multiline business lines		\$51.00	\$	63,437	\$	207,082	\$	-	\$	-	\$	-	\$	-	\$ 270,520
Public lines		\$51.00	\$	1,537	\$	3,477	\$	-	\$	-	\$	-	\$	-	\$ 5,014
Support cost if all lines supported			\$	4,649,990	\$	993,829	\$	-	\$	-	\$	-	\$	-	\$ 5,643,818
Total annual support for specified lines				\$	4,395,117	\$	744,569	\$	-	\$	-	\$	-	\$	5,139,687
@75% State allocation				\$	3,296,338	\$	558,427	\$	-	\$	-	\$	-	\$	3,854,765
@Implied 25% Federal allocation				\$	1,098,779	\$	186,142	\$	-	\$	-	\$	-	\$	1,284,922

TOTAL FUND ANALYSIS																
25% Federal allocation from Federal Fund Analy	\$	1,098,779	\$	186,142	\$	-	\$	-	\$	-	\$	-	\$	-	\$	1,284,922
75% State allocation from State Fund Analysis	\$	3,296,338	\$	558,427	\$	-	\$	-	\$	-	\$	-	\$	-	\$	3,854,765
Total Federal + State fund	\$	4,395,117	\$	744,569	\$	-	\$	-	\$	-	\$	-	\$	-	\$	5,139,687

Module release date: 11/4/1997

COST OF NETWORK ELEMENTS

Missouri

Mark Twain Rural Telephone Co

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	\$ 19,601	\$ 7,155	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,756
Unit Cost/month	0.57	0.49	-	-	-	-	-	-	-	0.55
Loop Distribution (DLC)										
Annual Cost	\$ 2,441,202	\$ 600,632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,041,835
Unit Cost/month	73.93	45.45	-	-	-	-	-	-	-	65.79
Loop Distribution (non-DLC)										
Annual Cost	\$ 60,648	\$ 73,078	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 133,726
Unit Cost/month	52.43	48.90	-	-	-	-	-	-	-	50.44
Loop Distribution (all)										
Annual Cost	\$ 2,501,851	\$ 673,710	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,175,561
Unit Cost/month	73.20	45.80	-	-	-	-	-	-	-	64.96
Loop Concentration (DLC)										
Annual Cost	\$ 597,205	\$ 132,153	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 729,358
Unit Cost/month	18.09	10.00	-	-	-	-	-	-	-	15.77
Loop Concentration (non-DLC)										
Annual Cost	\$ 231	\$ 323	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 554
Unit Cost/month	0.20	0.22	-	-	-	-	-	-	-	0.21
Loop Concentration (all)										
Annual Cost	\$ 597,436	\$ 132,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 729,912
Unit Cost/month	17.48	9.01	-	-	-	-	-	-	-	14.93
Loop Feeder (DLC)										
Annual Cost	\$ 1,639,112	\$ 342,068	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,981,181
Unit Cost/month	49.64	25.88	-	-	-	-	-	-	-	42.85
Loop Feeder (non-DLC)										
Annual Cost	\$ 8,637	\$ 4,357	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,994
Unit Cost/month	7.47	2.92	-	-	-	-	-	-	-	4.90
Loop Feeder (all)										
Annual Cost	\$ 1,647,750	\$ 346,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,994,175
Unit Cost/month	48.21	23.55	-	-	-	-	-	-	-	40.79
Total Loop (DLC)										
Annual Cost	\$ 4,696,458	\$ 1,081,281	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,777,739
Unit Cost/month	142.22	81.82	-	-	-	-	-	-	-	124.96
Total Loop (non-DLC)										
Annual Cost	\$ 70,180	\$ 78,485	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 148,665
Unit Cost/month	60.67	52.52	-	-	-	-	-	-	-	56.08
Total Loop (all)										
Annual Cost	\$ 4,766,638	\$ 1,159,766	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,926,404
Unit Cost/month	139.46	78.84	-	-	-	-	-	-	-	121.22
Total lines	2,848	1,226	-	-	-	-	-	-	-	4,074
Total lines served by DLC	2,752	1,101	-	-	-	-	-	-	-	3,853

	Annual Cost	Units	Unit Cost
End office switching	\$ 986,213		
Line Port	295,864	4,013 switched lines	\$ 6.14 per line/month
Non-Line Port	690,349	45,634,646 actual minutes	\$ 0.01513 per actual minute (for rate per DEM, see "Cost detail" sheet)
Signaling network elements	\$ 76,771		
Links	67,999	28 links	\$ 203.62 per link per month
STP	5,743	25,836,615 TCAP+ISUP msgs	\$ 0.00022 per signaling message
SCP	3,028	2,621,600 TCAP queries	\$ 0.00116 per query
Transport network elements			
<i>Dedicated</i>			
Sw+Sp Transport	\$ 171,962	110 trunks	\$ 130.54 per DS-0 equivalent per month
Switched	76,400	49 trunks	\$ 0.01300 per minute
Special	95,561	61 trunks	
Transmission Terminal	117,754	110 trunks	\$ 89.39 per DS-0 equivalent per month
			\$ 0.00890 per minute
			\$ 0.02190 total per minute
<i>Common</i>			
Transport	\$ 791,297	19,776,407 minutes	\$ 0.01567 per minute per leg (orig or term)
Transmission Terminal	174,279	19,776,407 minutes	\$ 0.00345 per minute
			\$ 0.01912 total per minute
<i>Direct</i>			
Transport	\$ 313,879	2,655,976 minutes	\$ 0.11818 per minute
Transmission Terminal	68,188	2,655,976 minutes	\$ 0.02567 per minute
			\$ 0.14385 total per minute
Tandem switch	\$ 425,849	17,255,808 minutes	\$ 0.02468 per minute
Operator systems	\$ 918,276		
Public Telephones	\$ 2,354		
Total (w/ Public)	\$ 9,973,225		
Total cost of switched network elements (w/o Public)	\$ 201.87	per line/month	

	interconnected at		
	end office	tandem	wtd average
Local interconnection			
EO switching	\$ 0.01513	\$ 0.01513	
ISUP	\$ 0.00362	\$ 0.00362	
Common Transport	\$ -	\$ 0.01912	
Tandem Switching	\$ -	\$ 0.02468	
TOTAL	\$ 0.01875	\$ 0.06255	n/a

IXC switched access			
EO switching	\$ 0.01513	\$ 0.01513	
ISUP	\$ 0.00362	\$ 0.00362	
Dedicated Transport	\$ 0.02190	\$ 0.02190	
Common Transport	\$ -	\$ 0.01912	
Tandem Switching	\$ -	\$ 0.02468	
TOTAL	\$ 0.04065	\$ 0.08445	\$ 0.08445

Signaling detail			
cost per 800 call attempt (TCAP)	\$ 0.0028		
ISUP cost/transaction	\$ 0.01891		
ISUP cost/completion	0.0270		
IXC switched access MOU/comp	7.45		
ISUP cost/min	\$ 0.003624		
D link per month	\$ 97.59		

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	690,349
Total DEMs	66,022,000
Cost per DEM \$	0.01046

Dedicated Transport Costs Per Trunk

DS-0 per month	
Transport per month	\$ 130.54
Terminal per month *	\$ 1,108.42
TOTAL	\$ 1,238.96

DS-1 per month	
Transport per month	\$ 3,132.91
Terminal per month	\$ 2,145.33
TOTAL	\$ 5,278.24

DS-3 per month	
Transport per month	\$ 87,721.61
Terminal per month	\$ 6,067.59
TOTAL	\$ 93,789.20

Trunk Port Costs

per trunk port (DS-0 equivalent) per month	\$ 2.82
per trunk port minute	\$ 0.000281

total EO usage per minute	\$ 0.015128
trk port/min	\$ 0.000281
other	\$ 0.014847

	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)	32.3%	30.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.7%
calculated distribution fill (non-DLC)	48.2%	31.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.6%
weighted average										32.1%

Per DS0 Transport Calculations

Entrance Facility Investment per Line	\$ 74
Total Dedicated Terminal Investment	428,925
Total Lines	4,074
Total Dedicated Terminal Investment per line	\$ 105
Entrance Facility percent to total	\$ 1
Terminal Investment per DS-0	\$ 1,144
Transport Investment per DS-0	\$ 6,138

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	\$ 12,573	\$ 4,667	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	17,240
Network Expenses	\$ 2,672	\$ 896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,568
Direct expense	\$ 15,245	\$ 5,563	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20,808
Investment	\$ 78,580	\$ 29,167	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	107,747
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 4,259	\$ 1,554	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,814
Total	\$ 19,504	\$ 7,117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,621
with carrier-to-carrier	\$ 19,516	\$ 7,124	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,640
Distribution (DLC)										
Annual Capital Cost	\$ 1,526,419	\$ 375,279	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,901,699
Network Expenses	\$ 372,225	\$ 91,697	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	463,923
Direct expense	\$ 1,898,645	\$ 466,977	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,365,622
Investment	\$ 9,452,062	\$ 2,326,869	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,778,931
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 530,467	\$ 130,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	660,937
Total	\$ 2,429,112	\$ 597,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,026,558
with carrier-to-carrier	\$ 2,430,619	\$ 598,028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,028,647
Distribution (non-DLC)										
Annual Capital Cost	\$ 37,911	\$ 45,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	83,546
Network Expenses	\$ 9,258	\$ 11,181	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20,439
Direct expense	\$ 47,169	\$ 56,816	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	103,985
Investment	\$ 235,111	\$ 283,360	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	518,471
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 13,179	\$ 15,874	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	29,053
Total	\$ 60,348	\$ 72,690	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	133,038
with carrier-to-carrier	\$ 60,385	\$ 72,761	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	133,146
Distribution (all)										
Annual Capital Cost	\$ 1,564,331	\$ 420,914	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,985,245
Network Expenses	\$ 381,484	\$ 102,879	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	484,362
Direct expense	\$ 1,945,814	\$ 523,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,469,607
Investment	\$ 9,687,173	\$ 2,610,229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,297,402
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 543,646	\$ 146,344	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	689,990
Total	\$ 2,489,460	\$ 670,137	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,159,597
with carrier-to-carrier	\$ 2,491,004	\$ 670,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,161,794
Concentrator (DLC)										
Annual Capital Cost	\$ 430,498	\$ 95,211	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	525,709
Network Expenses	\$ 33,979	\$ 7,534	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,513
Direct expense	\$ 464,477	\$ 102,745	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	567,222
Investment	\$ 2,210,484	\$ 489,380	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,699,865
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 129,771	\$ 28,706	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	158,478
Total	\$ 594,248	\$ 131,452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	725,699
with carrier-to-carrier	\$ 594,616	\$ 131,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	726,196
Concentrator (non-DLC)										
Annual Capital Cost	\$ 160	\$ 224	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	384
Network Expenses	\$ 20	\$ 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47
Direct expense	\$ 180	\$ 251	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	431
Investment	\$ 1,000	\$ 1,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,400
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 50	\$ 70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	120
Total	\$ 230	\$ 322	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	551
with carrier-to-carrier	\$ 230	\$ 322	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	552
Concentrator (all)										
Annual Capital Cost	\$ 430,658	\$ 95,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	526,093
Network Expenses	\$ 33,998	\$ 7,562	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,560
Direct expense	\$ 464,656	\$ 102,997	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	567,653
Investment	\$ 2,211,484	\$ 490,780	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,702,265
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 129,821	\$ 28,777	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	158,598
Total	\$ 594,478	\$ 131,773	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	726,251
with carrier-to-carrier	\$ 594,846	\$ 131,902	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	726,748
Feeder (DLC)										
Annual Capital Cost	\$ 1,016,159	\$ 212,074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,228,233
Network Expenses	\$ 258,661	\$ 53,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	312,536
Direct expense	\$ 1,274,819	\$ 265,960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,540,769
Investment	\$ 6,509,717	\$ 1,357,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,867,050
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 356,175	\$ 74,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	430,479
Total	\$ 1,630,995	\$ 340,254	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,971,248
with carrier-to-carrier	\$ 1,632,006	\$ 340,585	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,972,592
Feeder (non-DLC)										
Annual Capital Cost	\$ 5,450	\$ 2,761	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,211
Network Expenses	\$ 1,268	\$ 626	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,894
Direct expense	\$ 6,718	\$ 3,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,105

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	\$ 31,505	\$ 15,497	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,002
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 1,877	\$ 946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,823
Total	\$ 8,594	\$ 4,334	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,928
with carrier-to-carrier	\$ 8,600	\$ 4,338	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,938
Feeder (all)										
Annual Capital Cost	\$ 1,021,608	\$ 214,836	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,236,444
Network Expenses	\$ 259,929	\$ 54,501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	314,430
Direct expense	\$ 1,281,537	\$ 269,337	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,550,874
Investment	\$ 6,541,222	\$ 1,372,830	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,914,052
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 358,052	\$ 75,251	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	433,303
Total	\$ 1,639,589	\$ 344,588	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,984,177
with carrier-to-carrier	\$ 1,640,606	\$ 344,923	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,985,529
End Office Switching										
Annual Capital Cost	\$ 432,829	\$ 129,102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	561,931
Network Expenses	\$ 151,980	\$ 44,127	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	196,107
Direct expense	\$ 584,809	\$ 173,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	758,038
Investment	\$ 2,700,554	\$ 804,217	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,504,771
Support expenses	\$ 99,117	\$ 31,665	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	130,782
Subtotal, with misc spt	\$ 683,925	\$ 204,895	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	888,820
Total, with var overhead	\$ 755,053	\$ 226,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	981,257
with carrier-to-carrier	\$ 755,517	\$ 226,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	981,937
Signaling										
Annual Capital Cost	\$ 41,386	\$ 5,864	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,250
Network Expenses	\$ 10,297	\$ 1,533	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,831
Direct expense	\$ 51,683	\$ 7,397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	59,080
Investment	\$ 258,458	\$ 36,568	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	295,027
Support expenses	\$ 8,760	\$ 1,352	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,112
Subtotal, with misc spt	\$ 60,443	\$ 8,749	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	69,192
Total, with var overhead	\$ 66,729	\$ 9,659	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	76,388
with carrier-to-carrier	\$ 66,770	\$ 9,668	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	76,438
Dedicated Transport										
Annual Capital Cost	\$ 44,447	\$ 60,488	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	104,934
Network Expenses	\$ 11,311	\$ 15,396	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,706
Direct expense	\$ 55,757	\$ 75,883	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,641
Investment	\$ 285,380	\$ 388,432	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	673,812
Support expenses	\$ 9,450	\$ 13,871	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,321
Subtotal, with misc spt	\$ 65,207	\$ 89,754	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	154,962
Total, with var overhead	\$ 71,989	\$ 99,089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	171,078
with carrier-to-carrier	\$ 72,033	\$ 99,183	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	171,216
Dedicated Transport Transmission										
Annual Capital Cost	\$ 51,854	\$ 31,933	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	83,787
Network Expenses	\$ 4,061	\$ 2,501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,563
Direct expense	\$ 55,915	\$ 34,434	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	90,349
Investment	\$ 265,451	\$ 163,473	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	428,925
Support expenses	\$ 9,477	\$ 6,294	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,771
Subtotal, with misc spt	\$ 65,392	\$ 40,728	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	106,120
Total, with var overhead	\$ 72,192	\$ 44,964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	117,157
with carrier-to-carrier	\$ 72,237	\$ 45,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	117,244
Direct Transport										
Annual Capital Cost	\$ 162,694	\$ 29,806	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	192,501
Network Expenses	\$ 41,382	\$ 7,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,966
Direct expense	\$ 204,076	\$ 37,390	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	241,466
Investment	\$ 1,044,568	\$ 191,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,235,949
Support expenses	\$ 34,588	\$ 6,835	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,423
Subtotal, with misc spt	\$ 238,664	\$ 44,225	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	282,889
Total, with var overhead	\$ 263,485	\$ 48,825	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	312,310
with carrier-to-carrier	\$ 263,647	\$ 48,871	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	312,518
Direct Transport Transmission										
Annual Capital Cost	\$ 40,565	\$ 8,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,641
Network Expenses	\$ 3,177	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,810
Direct expense	\$ 43,743	\$ 8,708	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	52,450
Investment	\$ 207,665	\$ 41,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	249,003
Support expenses	\$ 7,414	\$ 1,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,005
Subtotal, with misc spt	\$ 51,156	\$ 10,299	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,456
Total, with var overhead	\$ 56,477	\$ 11,370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	67,847
with carrier-to-carrier	\$ 56,511	\$ 11,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	67,893
Common Transport										
Annual Capital Cost	\$ 399,983	\$ 85,201	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	485,184
Network Expenses	\$ 101,731	\$ 21,680	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	123,412
Direct expense	\$ 501,715	\$ 106,881	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	608,595
Investment	\$ 2,568,218	\$ 547,058	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,115,276
Support expenses	\$ 85,033	\$ 19,537	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	104,570
Subtotal, with misc spt	\$ 586,748	\$ 126,418	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	713,166
Total, with var overhead	\$ 647,770	\$ 139,565	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	787,335
with carrier-to-carrier	\$ 648,168	\$ 139,698	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	787,866

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	\$ 101,765	\$ 22,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	124,296
Network Expenses	\$ 7,971	\$ 1,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,735
Direct expense	\$ 109,736	\$ 24,295	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	134,031
Investment	\$ 520,962	\$ 115,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	636,301
Support expenses	\$ 18,599	\$ 4,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,040
Subtotal, with misc spt	\$ 128,335	\$ 28,736	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	157,071
Total, with var overhead	\$ 141,681	\$ 31,725	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	173,406
with carrier-to-carrier	\$ 141,769	\$ 31,755	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	173,523
Tandem Switching										
Annual Capital Cost	\$ 146,945	\$ 60,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	206,987
Network Expenses	\$ 85,091	\$ 35,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	120,098
Direct expense	\$ 232,037	\$ 95,048	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	327,085
Investment	\$ 950,427	\$ 388,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,339,010
Support expenses	\$ 39,327	\$ 17,374	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	56,701
Subtotal, with misc spt	\$ 271,364	\$ 112,422	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	383,786
Total, with var overhead	\$ 299,586	\$ 124,114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	423,700
with carrier-to-carrier	\$ 299,770	\$ 124,233	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	424,002
Operator Systems										
Annual Capital Cost	\$ 342,714	\$ 127,366	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,080
Network Expenses	\$ 174,931	\$ 68,805	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	243,736
Direct expense	\$ 517,645	\$ 196,171	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	713,816
Investment	\$ 2,205,130	\$ 819,141	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,024,271
Support expenses	\$ 81,316	\$ 32,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	113,757
Subtotal, with misc spt	\$ 598,961	\$ 228,611	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	827,572
Total, with var overhead	\$ 661,253	\$ 252,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	913,640
with carrier-to-carrier	\$ 661,664	\$ 252,631	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	914,295
Public Telephone										
Annual Capital Cost	\$ 261	\$ 693	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	954
Network Expenses	\$ 240	\$ 638	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	878
Direct expense	\$ 500	\$ 1,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,832
Investment	\$ 1,275	\$ 3,391	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,666
Support expenses	\$ 79	\$ 220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	299
Subtotal, with misc spt	\$ 579	\$ 1,551	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,131
Total, with var overhead	\$ 639	\$ 1,713	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,352
with carrier-to-carrier	\$ 640	\$ 1,714	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,354
Totals										
Annual Capital Cost	\$ 4,794,612	\$ 1,296,952	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,091,565
Network Expenses	\$ 1,270,255	\$ 365,506	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,635,761
Total	\$ 6,064,867	\$ 1,662,458	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,727,325
Investment	\$ 29,526,547	\$ 8,001,929	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	37,528,476
Supporting Network Expenses										
Capital Cost - Gent Support	\$ 247,633	\$ 67,111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	314,744
Network Operations	\$ 88,597	\$ 38,131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	126,728
Network Support	\$ 17,150	\$ 4,701	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	21,851
Other Taxes	\$ 350,879	\$ 96,869	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	447,748
Misc Expenses	\$ 248,462	\$ 68,107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	316,569
Subtotal	\$ 952,722	\$ 274,918	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,227,640
Carrier-carrier customer svc	\$ 4,813	\$ 2,072	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,885
Interoffice/Switching Net Ops	\$ 22,803	\$ 9,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	32,618
Interoffice/Sw Exp	\$ 1,839,470	\$ 563,267	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,402,737
Total Network Costs										
	\$ 7,040,393	\$ 1,947,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,987,583
Other costs										
Other Taxes	\$ 350,879	\$ 96,869	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	447,748
Monthly Cost Factors										
Loop	0.02184	0.02185	-	-	-	-	-	-	-	0.02193
Port	0.00657	0.00914	-	-	-	-	-	-	-	0.00716
Switching	0.00873	0.01214	-	-	-	-	-	-	-	0.00951
Signaling	0.00470	0.01375	-	-	-	-	-	-	-	0.00582
Transport	0.00396	0.00522	-	-	-	-	-	-	-	0.00426
Billing/Bill Inquiries (per line)	2.74	2.74	-	-	-	-	-	-	-	2.74
Directory Listing (per line)	-	-	-	-	-	-	-	-	-	-
LNP Expense (per line)	0.30	0.30	-	-	-	-	-	-	-	0.30
Inverse Carrier to Carrier Expense Factors										
	99.9386%	99.9047%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	99.9333%

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	\$ 8,078	0%	100%	\$ -	\$ 8,078
Furniture - Expenses	\$ 6,202	0%	100%	\$ -	\$ 6,202
Office Equipment - Capital Costs	\$ 23,061	0%	100%	\$ -	\$ 23,061
Office Equipment - Expenses	\$ 13,141	0%	100%	\$ -	\$ 13,141
General Purpose Computer - Capital Costs	\$ 48,189	0%	100%	\$ -	\$ 48,189
General Purpose Computer - Expenses	\$ 127,043	0%	100%	\$ -	\$ 127,043
Motor Vehicles - Capital Costs	\$ 29,079	0%	100%	\$ -	\$ 29,079
Motor Vehicles - Expenses	\$ 10,159	0%	100%	\$ -	\$ 10,159
Buildings - Capital Costs	\$ 58,122	0%	100%	\$ -	\$ 58,122
Buildings - Expenses	\$ 42,431	0%	100%	\$ -	\$ 42,431
Garage Work Eqpt. - Capital Costs	\$ 851	0%	100%	\$ -	\$ 851
Garage Work Eqpt. - Expenses	\$ 296	0%	100%	\$ -	\$ 296
Other Work Eqpt. - Capital Costs	\$ 20,346	0%	100%	\$ -	\$ 20,346
Other Work Eqpt. - Expenses	\$ 2,577	0%	100%	\$ -	\$ 2,577
Total General Support	\$ 389,578			\$ -	\$ 389,578
Network Operations	\$ 75,587	0%	100%	\$ -	\$ 75,587
Other Taxes	\$ 267,058	0%	100%	\$ -	\$ 267,058
Variable Overhead	\$ 555,481	0%	100%	\$ -	\$ 555,481
Totals	\$ 732,223			\$ -	\$ 1,287,704

	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	\$ 3,707,252	\$ 901,689	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,608,941
Non-Loop-related direct costs	\$ 2,357,615	\$ 760,769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,118,384
Total	\$ 6,064,867	\$ 1,662,458	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,727,325
Loop Fraction	61.13%	54.24%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	59.64%
Network Operations	\$ 88,597	\$ 38,131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 126,728

	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs
General Support - Totals			
Furniture - Capital Costs	\$ 13,544	\$ 8,078	\$ 5,466
Furniture - Expenses	\$ 10,398	\$ 6,202	\$ 4,196
Office Equipment - Capital Costs	\$ 38,664	\$ 23,061	\$ 15,603
Office Equipment - Expenses	\$ 22,032	\$ 13,141	\$ 8,891
General Purpose Computer - Capital Costs	\$ 80,794	\$ 48,189	\$ 32,605
General Purpose Computer - Expenses	\$ 213,000	\$ 127,043	\$ 85,957
Motor Vehicles - Capital Costs	\$ 48,754	\$ 29,079	\$ 19,675
			\$ 314,744
			\$ 338,420

Exp Assignment

Motor Vehicles - Expenses	\$ 17,033	\$ 10,159	\$ 6,874	
Buildings - Capital Costs	\$ 97,448	\$ 58,122	\$ 39,325	
Buildings - Expenses	\$ 71,139	\$ 42,431	\$ 28,708	
Garage Work Eqpt. - Capital Costs	\$ 1,427	\$ 851	\$ 576	
Garage Work Eqpt. - Expenses	\$ 497	\$ 296	\$ 201	
Other Work Eqpt. - Capital Costs	\$ 34,113	\$ 20,346	\$ 13,766	
Other Work Eqpt. - Expenses	\$ 4,321	\$ 2,577	\$ 1,744	
Total General Support	\$ 653,164	\$ 389,578	\$ 263,586	
Network Operations	\$ 126,728	\$ 75,587	\$ 51,142	
Other Taxes Calculation				
Total Direct Costs	\$ 7,727,325	\$ 4,608,941	\$ 3,118,384	\$ 7,727,325
Total Network Operations	\$ 126,728	\$ 75,587	\$ 51,142	\$ 126,728
Total General Support	\$ 653,164	\$ 389,578	\$ 263,586	\$ 786,169
Total	\$ 8,507,217	\$ 5,074,106	\$ 3,433,111	
Other Taxes	\$ 447,748	\$ 267,058	\$ 180,690	\$ 1,233,917
Total Expenses and Other Taxes	\$ 8,954,966	\$ 5,341,164	\$ 3,613,802	
Variable Overhead Calculation				
Variable Overhead	\$ 931,316	\$ 555,481	\$ 375,835	
Total Cost with Variable Overhead	9,886,282	5,896,645	3,989,637	

UNE Expense Assignment

Totals

NID

per line cost \$ -
per direct cost \$ 5,814
total \$ 5,814

Distribution (DLC)

per line cost \$ -
per direct cost \$ 660,937
total \$ 660,937

Distribution (non-DLC)

per line cost \$ -
per direct cost \$ 29,053
total \$ 29,053

Concentrator (DLC)

per line cost \$ -
per direct cost \$ 158,478
total \$ 158,478

Concentrator (non-DLC)

per line cost \$ -
per direct cost \$ 120
total \$ 120

Feeder (DLC)

per line cost \$ -
per direct cost \$ 430,479
total \$ 430,479

Feeder (non-DLC)

Exp Assignment

<i>per line cost</i>	\$	-
<i>per direct cost</i>	\$	2,823
<i>total</i>	\$	2,823

End Office Switching	\$	969,828
Signaling	\$	75,587
Dedicated Transport	\$	168,420
Dedicated Transport Transmission	\$	115,592
Direct Transport	\$	308,930
Direct Transport Transmission	\$	67,105
Common Transport	\$	778,632
Common Transport Transmission	\$	171,478
Tandem Switching	\$	418,470
Operator Systems	\$	913,250
Public Telephone	\$	2,344

COST SUMMARY

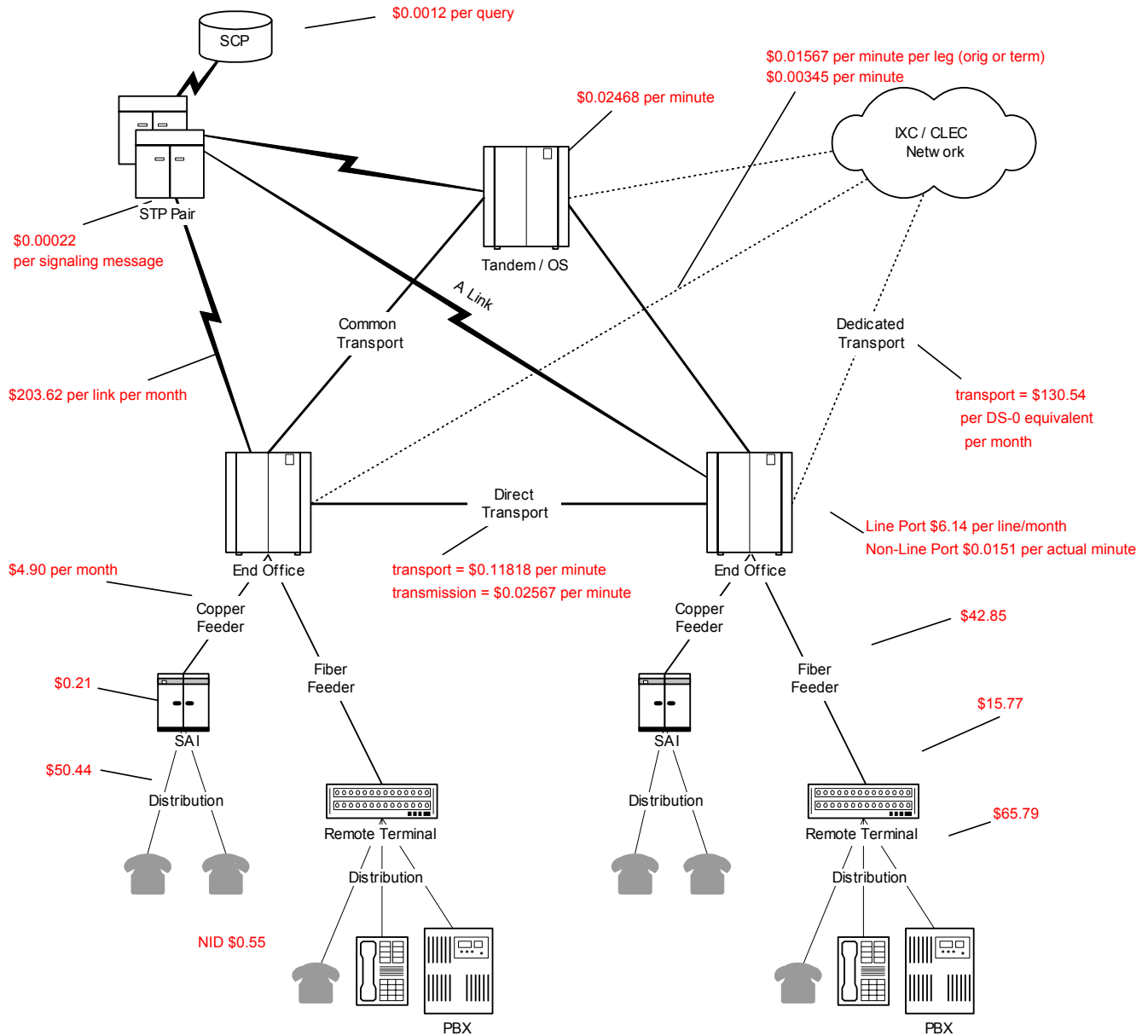
Missouri Mark Twain Rural Telephone Co

			1	2	1 + 2	3	1 + 2 + 3	Total
Network Element	Investment *	% of total investment	Annual Capital Cost	Network Expenses	Direct Expense	Support Expense	Subtotal (with misc support)	(with carrier-to-carrier)
NID	\$ 107,747	0.3%	\$ 17,240	\$ 3,568	\$ 20,808	\$ 5,814	\$ 26,621	\$ 26,640
<i>Distribution (DLC)</i>	11,778,931	31.4%	1,901,699	463,923	2,365,622	660,937	3,026,558	3,028,647
<i>Distribution (non-DLC)</i>	518,471	1.4%	83,546	20,439	103,985	29,053	133,038	133,146
Distribution (all)	12,297,402	32.8%	1,985,245	484,362	2,469,607	689,990	3,159,597	3,161,794
<i>Concentrator (DLC)</i>	2,699,865	7.2%	525,709	41,513	567,222	158,478	725,699	726,196
<i>Concentrator (non-DLC)</i>	2,400	0.0%	384	47	431	120	551	552
Concentrator (all)	2,702,265	7.2%	526,093	41,560	567,653	158,598	726,251	726,748
<i>Feeder (DLC)</i>	7,867,050	21.0%	1,228,233	312,536	1,540,769	430,479	1,971,248	1,972,592
<i>Feeder (non-DLC)</i>	47,002	0.1%	8,211	1,894	10,105	2,823	12,928	12,938
Feeder (all)	7,914,052	21.1%	1,236,444	314,430	1,550,874	433,303	1,984,177	1,985,529
End Office Switching	3,504,771	9.3%	561,931	196,107	758,038	130,782	888,820	981,937
Signaling	295,027	0.8%	47,250	11,831	59,080	10,112	69,192	76,438
Dedicated Transport	673,812	1.8%	104,934	26,706	131,641	23,321	154,962	171,216
Dedicated Transport Transmission	428,925	1.1%	83,787	6,563	90,349	15,771	106,120	117,244
Direct Transport	1,235,949	3.3%	192,501	48,966	241,466	41,423	282,889	312,518
Direct Transport Transmission	249,003	0.7%	48,641	3,810	52,450	9,005	61,456	67,893
Common Transport	3,115,276	8.3%	485,184	123,412	608,595	104,570	713,166	787,866
Common Transport Transmission	636,301	1.7%	124,296	9,735	134,031	23,040	157,071	173,523
Tandem Switching	1,339,010	3.6%	206,987	120,098	327,085	56,701	383,786	424,002
Operator Systems	3,024,271	8.1%	470,080	243,736	713,816	113,757	827,572	914,295
Public Telephone	4,666	0.0%	954	878	1,832	299	2,131	2,354
Total Network Cost								
Total	\$ 37,528,476	100%	\$ 6,091,565	\$ 1,635,761	\$ 7,727,325	\$ 1,816,483	\$ 9,543,808	\$ 9,929,999

* Post sharing

Unbundled Network Elements

Missouri / Mark Twain Rural Telephone Co



USOA Detail Breakdown of HAI Model Costs

USOA	INVESTMENT DESCRIPTION	Cost \$(000)
Telecommunications Plant in Service		
2111	LAND	70
2112	MOTOR VEHICLES	255
2113	AIRCRAFT	
2114	SPECIAL PURPOSE VEHICLES	
2115	GARAGE WORK EQUIPMENT	7
2116	OTHER WORK EQUIPMENT	199
2121	BUILDINGS	3,572
2122	FURNITURE	85
2123.1	OFFICE SUPPORT EQUIPMENT	217
2123.2	COMPANY COMMUNICATIONS EQUIPMENT	
2124	GENERAL PURPOSE COMPUTERS	334
2110	TOTAL LAND & SUPPORT ASSETS	4,739
2212	DIGITAL ELECTRONIC SWITCHING	3,381
2220	OPERATOR SYSTEMS	1,012
2232	CIRCUIT EQUIPMENT	4,095
2351	PUBLIC TEL TERMINAL EQUIPMENT	5
2411	POLES	697
2421.1	AERIAL CABLE - METALLIC	243
2421.2	AERIAL CABLE - NonMETALLIC	426
2422.1	UNDERGROUND CABLE - METALLIC	0
2422.2	UNDERGROUND CABLE - NonMETALLIC	0
2423.1	BURIED CABLE - METALLIC	11,801
2423.2	BURIED CABLE - NonMETALLIC	12,873
2426.1	INTRABUILDING NETWORK CABLE - MET.	
2426.2	INTRABUILDING NETWORK CABLE - NonMET.	
2441	CONDUIT SYSTEMS	0
2410	TOTAL CABLE & WIRE FACILITIES	26,039
	Total TPIS (before amortizable assets)*	39,271

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

**Mark Twain Rural Telephone Co
Missouri**

USOA	EXPENSE DESCRIPTION	Cost \$(000)
Plant Specific Expenses		
6112	MOTOR VEHICLES	17
6113	AIRCRAFT	7
6114	SPECIAL PURPOSE VEHICLES	0
6115	GARAGE WORK EQUIPMENT	0
6116	OTHER WORK EQUIPMENT	4
6110	NETWORK SUPPORT	29
6121	LAND & BUILDINGS	408
6122	FURNITURE	12
6123	OFFICE EQUIPMENT	26
6124	GENERAL PURPOSE COMPUTERS	255
6120	LAND & SUPPORT ASSETS	701
6212	DIGITAL ELECTRONIC SWITCHING	161
6220	OPERATOR SYSTEMS	58
6232	CIRCUIT EQUIPMENT	66
6351	PUBLIC TEL TERMINAL EQUIPMENT	1
6411	POLES	29
6421	AERIAL CABLE	42
6422	UNDERGROUND CABLE	0
6423	BURIED CABLE	956
6426	INTRABUILDING NETWORK CABLE	
6441	CONDUIT SYSTEMS	0
6410	TOTAL CABLE & WIRE FACILITIES	1,027
	Total Plant Specific Expenses	2,043
Plant Nonspecific Operations		
	TOTAL NETWORK OPERATIONS SUPPORT	159
6561	DEPRECIATION TPIS	2,260
6623	CUSTOMER SERVICES	7
	Total Plant Nonspecific Operations	2,426
	TOTAL CORPORATE OPERATIONS	935
	TOTAL OPERATING EXPENSES	5,403
7240	OPERATING OTHER TAXES	448
	TOTAL EXPENSES & OPERATING TAXES	5,851

USOA Depreciation Calculations

	<u>Depl life</u>	<u>DepFact</u>	<u>Dep Exp</u>
2111			
2112	10.45	0.09589	24
2113			
2114			
2115	9.97	0.10031	1
2116	13.92	0.07189	14
2121	48.73	0.02052	73
2122	18.36	0.05449	5
2123.1	12.44	0.08052	17
2123.2	7.99	0.12517	-
2124	6.61	0.15223	51
2110			
2212	17.17	0.05827	197
2220	9.25	0.10829	110
2232	9.90	0.10108	414
2351	8.98	0.11145	1
2411	8.38	0.11972	83
2421.1	13.61	0.07355	18
2421.2	18.92	0.05286	23
2422.1	17.88	0.05596	-
2422.2	20.14	0.04966	-
2423.1	18.36	0.05450	643
2423.2	21.97	0.04551	586
2426.1	13.57	0.07377	-
2426.2	21.37	0.04681	-
2441	46.15	0.02167	-
<i>Total Depreciation</i>			2,260

Network Element Disaggregations

<u>Investment Disaggregations:</u>		<u>Expense Disaggregations:</u>	
<i>Terminal, Drop, and NID</i>		<i>Terminal, Drop, and NID</i>	
Aerial-m portion	838,687	Aerial portion	31,899
Buried-m portion	16,883	Buried portion	1,537
	821,805		30,362
<i>OS Trks + Signaling links</i>		<i>OS Trks + Signaling links</i>	
Circuit Eqpt. portion	773,693	Circuit Eqpt. portion	29,989
Pole portion	128,949	Pole portion	4,998
Aerial-nm portion	11,348	Aerial-nm portion	458
Underground-nm portion	18,739	Underground-nm portion	1,153
Buried-nm portion	-	Buried-nm portion	-
Conduit portion	614,658	Conduit portion	23,379
	-		-
<i>SAI</i>		<i>SAI</i>	
Aerial-m portion	50,100	Aerial portion	982
Aerial-nm portion	9	Underground portion	33
Underground-m portion	1,685	Buried portion	-
Underground-nm portion	-		949
Buried-m portion	-		
Buried-nm portion	210		
	48,196		

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	\$ 66,823	\$ 18,109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	84,932
office equipment	170,786	46,284	-	-	-	-	-	-	-	217,070
general purpose computers	262,632	71,175	-	-	-	-	-	-	-	333,808
motor vehicles	200,952	54,460	-	-	-	-	-	-	-	255,411
buildings	507,568	137,555	-	-	-	-	-	-	-	645,123
garage work equipment	5,767	1,563	-	-	-	-	-	-	-	7,329
other work equipment	156,596	42,439	-	-	-	-	-	-	-	199,035
										-
TOTAL	\$ 1,371,123	\$ 371,585	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,742,708
Levelized Cost of Capital										
furniture	\$ 10,656	\$ 2,888	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,544
office equipment	30,420	8,244	-	-	-	-	-	-	-	38,664
general purpose computers	63,567	17,227	-	-	-	-	-	-	-	80,794
motor vehicles	38,358	10,395	-	-	-	-	-	-	-	48,754
buildings	76,670	20,778	-	-	-	-	-	-	-	97,448
garage work equipment	1,123	304	-	-	-	-	-	-	-	1,427
other work equipment	26,839	7,274	-	-	-	-	-	-	-	34,113
TOTAL	\$ 247,633	\$ 67,111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	314,744

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	\$ 3,333,170	\$ 900,498	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,233,668
aerial cable	168,683	45,572	-	-	-	-	-	-	-	214,254
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	5,126,397	1,132,951	-	-	-	-	-	-	-	6,259,347
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	315,252	66,720	-	-	-	-	-	-	-	381,972
terminal	231,013	92,453	-	-	-	-	-	-	-	323,466
drop	277,548	88,676	-	-	-	-	-	-	-	366,223
TOTAL	\$ 9,452,062	\$ 2,326,869	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,778,931
	80.25%	19.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 531,565	\$ 143,609	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	675,173
aerial cable	29,125	7,869	-	-	-	-	-	-	-	36,994
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	817,543	180,680	-	-	-	-	-	-	-	998,223
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	66,814	14,140	-	-	-	-	-	-	-	80,954
terminal	36,963	14,793	-	-	-	-	-	-	-	51,756
drop	44,409	14,189	-	-	-	-	-	-	-	58,598
TOTAL	\$ 1,526,419	\$ 375,279	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,901,699
Network Expenses										
buried cable	129,588	35,010	-	-	-	-	-	-	-	164,598
aerial cable	10,608	2,866	-	-	-	-	-	-	-	13,474
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	199,306	44,047	-	-	-	-	-	-	-	243,353
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	13,011	2,754	-	-	-	-	-	-	-	15,765
terminal	8,954	3,584	-	-	-	-	-	-	-	12,538
drop	10,758	3,437	-	-	-	-	-	-	-	14,195
TOTAL	\$ 372,225	\$ 91,697	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	463,923
Summary										
Cost of Capital	\$ 1,526,419	\$ 375,279	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,901,699
Network Expense	372,225	91,697	-	-	-	-	-	-	-	463,923
TOTAL	\$ 1,898,645	\$ 466,977	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,365,622
Copper Feeder										
Distribution Investment										
buried cable	\$ 85,183	\$ 124,637	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	209,820
aerial cable	4,311	6,308	-	-	-	-	-	-	-	10,618
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	120,947	122,490	-	-	-	-	-	-	-	243,437
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	6,672	6,672	-	-	-	-	-	-	-	13,344
terminal	8,092	10,454	-	-	-	-	-	-	-	18,547
drop	9,906	12,799	-	-	-	-	-	-	-	22,705
TOTAL	\$ 235,111	\$ 283,360	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	518,471
	45.35%	54.65%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 13,585	\$ 19,877	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	33,462
aerial cable	744	1,089	-	-	-	-	-	-	-	1,833
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	19,288	19,534	-	-	-	-	-	-	-	38,823
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	1,414	1,414	-	-	-	-	-	-	-	2,828
terminal	1,295	1,673	-	-	-	-	-	-	-	2,968
drop	1,585	2,048	-	-	-	-	-	-	-	3,633
TOTAL	\$ 37,911	\$ 45,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	83,546
Network Expenses										
buried cable	\$ 3,312	\$ 4,846	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,157
aerial cable	271	397	-	-	-	-	-	-	-	668

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	\$ 4,702	\$ 4,762	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,464
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	275	275	-	-	-	-	-	-	-	551
terminal	314	405	-	-	-	-	-	-	-	719
drop	384	496	-	-	-	-	-	-	-	880
TOTAL	\$ 9,258	\$ 11,181	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20,439
Summary										
Cost of Capital	\$ 37,911	\$ 45,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	83,546
Network Expense	9,258	11,181	-	-	-	-	-	-	-	20,439
TOTAL	\$ 47,169	\$ 56,816	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	103,985

	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	\$ 3,418,353	\$ 1,025,135	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,443,488
aerial cable	\$ 172,994	\$ 51,879	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	224,873
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 5,247,343	\$ 1,255,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,502,784
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 321,924	\$ 73,392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	395,316
terminal	\$ 239,105	\$ 102,907	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	342,013
drop	\$ 287,454	\$ 101,474	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	388,928
TOTAL	\$ 9,687,173	\$ 2,610,229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,297,402
	78.77%	21.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 545,149	\$ 163,486	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	708,635
aerial cable	\$ 29,870	\$ 8,958	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	38,827
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 836,831	\$ 200,214	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,037,046
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 68,228	\$ 15,555	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	83,782
terminal	\$ 38,258	\$ 16,466	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	54,724
drop	\$ 45,994	\$ 16,236	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	62,230
TOTAL	\$ 1,564,331	\$ 420,914	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,985,245
Network Expenses										
buried cable	\$ 132,900	\$ 39,856	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	172,756
aerial cable	\$ 10,879	\$ 3,263	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	14,142
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 204,008	\$ 48,810	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	252,818
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 13,287	\$ 3,029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	16,316
terminal	\$ 9,268	\$ 3,989	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,256
drop	\$ 11,142	\$ 3,933	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,075
TOTAL	\$ 381,484	\$ 102,879	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	484,362
Summary										
Cost of Capital	\$ 1,564,331	\$ 420,914	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,985,245
Network Expense	381,484	102,879	-	-	-	-	-	-	-	484,362
TOTAL	\$ 1,945,814	\$ 523,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,469,607
NID Cost										
NID Investment	\$ 78,580	\$ 29,167	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	107,747
Levelized Cost of Capital	12,573	4,667	-	-	-	-	-	-	-	17,240
Network Expenses	2,672	896	-	-	-	-	-	-	-	3,568
TOTAL	\$ 15,245	\$ 5,563	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20,808

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	\$ 2,173,684	\$ 478,480	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,652,165
SAI Investment	36,800	10,900	-	-	-	-	-	-	-	47,700
										\$ -
TOTAL	\$ 2,210,484 81.87%	\$ 489,380 18.13%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	2,699,865 100.00%
Levelized Cost of Capital										
DLC	\$ 424,610	\$ 93,467	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	518,076
SAI	5,888	1,744	-	-	-	-	-	-	-	7,632
TOTAL	\$ 430,498	\$ 95,211	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	525,709
Network Expenses										
DLC	\$ 33,257	\$ 7,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	40,578
SAI	721	214	-	-	-	-	-	-	-	935
TOTAL	\$ 33,979	\$ 7,534	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,513
Summary										
Cost of Capital	\$ 430,498	\$ 95,211	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	525,709
Network Expense	33,979	7,534	-	-	-	-	-	-	-	41,513
TOTAL	\$ 464,477	\$ 102,745	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	567,222
	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	1,000	1,400	-	-	-	-	-	-	-	2,400
										\$ -
TOTAL	\$ 1,000 41.67%	\$ 1,400 58.33%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	2,400 100.00%
Levelized Cost of Capital										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI	160	224	-	-	-	-	-	-	-	384
TOTAL	\$ 160	\$ 224	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	384
Network Expenses										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI	20	27	-	-	-	-	-	-	-	47
TOTAL	\$ 20	\$ 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47
Summary										
Cost of Capital	\$ 160	\$ 224	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	384
Network Expense	20	27	-	-	-	-	-	-	-	47
TOTAL	\$ 180	\$ 251	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	431
	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	\$ 2,173,684	\$ 478,480	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,652,165
SAI Investment	37,800	12,300	-	-	-	-	-	-	-	50,100
TOTAL	\$ 2,211,484 81.84%	\$ 490,780 18.16%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	2,702,265 100.00%

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	\$ 424,610	\$ 93,467	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	518,076
SAI	6,048	1,968	-	-	-	-	-	-	-	8,016
TOTAL	\$ 430,658	\$ 95,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	526,093
Network Expenses										
DLC	\$ 33,257	\$ 7,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	40,578
SAI	741	241	-	-	-	-	-	-	-	982
TOTAL	\$ 33,998	\$ 7,562	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,560
Summary										
Cost of Capital	\$ 430,658	\$ 95,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	526,093
Network Expense	33,998	7,562	-	-	-	-	-	-	-	41,560
TOTAL	\$ 464,656	\$ 102,997	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	567,653

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	-	-	-	-	-	-	-	-	-	-
fiber buried cable	4,410,850	854,751	-	-	-	-	-	-	-	5,265,602
fiber aerial cable	216,890	42,455	-	-	-	-	-	-	-	259,345
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	1,728,973	424,608	-	-	-	-	-	-	-	2,153,581
poles	153,004	35,518	-	-	-	-	-	-	-	188,522
TOTAL	\$ 6,509,717 82.75%	\$ 1,357,332 17.25%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ 7,867,050 100.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	682,017	132,164	-	-	-	-	-	-	-	814,181
fiber aerial cable	34,376	6,729	-	-	-	-	-	-	-	41,105
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	267,338	65,654	-	-	-	-	-	-	-	332,992
poles	32,427	7,528	-	-	-	-	-	-	-	39,955
TOTAL	\$ 1,016,159	\$ 212,074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,228,233
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	171,487	33,231	-	-	-	-	-	-	-	204,718
fiber aerial cable	13,640	2,670	-	-	-	-	-	-	-	16,310
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	67,220	16,508	-	-	-	-	-	-	-	83,728
poles	6,315	1,466	-	-	-	-	-	-	-	7,781
TOTAL	\$ 258,661	\$ 53,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	312,536
Summary										
Cost of Capital	\$ 1,016,159	\$ 212,074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,228,233
Network Expense	258,661	53,875	-	-	-	-	-	-	-	312,536
TOTAL	\$ 1,274,819	\$ 265,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,540,769
	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	19,876	8,837	-	-	-	-	-	-	-	28,713
copper aerial cable	1,006	447	-	-	-	-	-	-	-	1,453
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	2,767	801	-	-	-	-	-	-	-	3,568
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	7,856	5,412	-	-	-	-	-	-	-	13,268
TOTAL	\$ 31,505 67.03%	\$ 15,497 32.97%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ 47,002 100.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	3,170	1,409	-	-	-	-	-	-	-	4,579
copper aerial cable	174	77	-	-	-	-	-	-	-	251
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	441	128	-	-	-	-	-	-	-	569

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	1,665	1,147	-	-	-	-	-	-	-	2,812
TOTAL	\$ 5,450	\$ 2,761	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,211
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	773	344	-	-	-	-	-	-	-	1,116
copper aerial cable	63	28	-	-	-	-	-	-	-	91
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	108	31	-	-	-	-	-	-	-	139
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	324	223	-	-	-	-	-	-	-	548
TOTAL	\$ 1,268	\$ 626	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,894
Summary										
Cost of Capital	\$ 5,450	\$ 2,761	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,211
Network Expense	1,268	626	-	-	-	-	-	-	-	1,894
TOTAL	\$ 6,718	\$ 3,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,105
	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	19,876	8,837	-	-	-	-	-	-	-	28,713
copper buried cable	1,006	447	-	-	-	-	-	-	-	1,453
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	4,410,850	854,751	-	-	-	-	-	-	-	5,265,602
fiber aerial cable	216,890	42,455	-	-	-	-	-	-	-	259,345
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	2,767	801	-	-	-	-	-	-	-	3,568
fiber buried placement	1,728,973	424,608	-	-	-	-	-	-	-	2,153,581
poles	160,860	40,930	-	-	-	-	-	-	-	201,790
TOTAL	\$ 6,541,222	\$ 1,372,830	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,914,052
	82.65%	17.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	3,170	1,409	-	-	-	-	-	-	-	4,579
copper aerial cable	174	77	-	-	-	-	-	-	-	251
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	682,017	132,164	-	-	-	-	-	-	-	814,181
fiber aerial cable	34,376	6,729	-	-	-	-	-	-	-	41,105
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	441	128	-	-	-	-	-	-	-	569
fiber buried placement	267,338	65,654	-	-	-	-	-	-	-	332,992
poles	34,092	8,675	-	-	-	-	-	-	-	42,767
TOTAL	\$ 1,021,608	\$ 214,836	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,236,444
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	773	344	-	-	-	-	-	-	-	1,116
copper aerial cable	63	28	-	-	-	-	-	-	-	91
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	171,487	33,231	-	-	-	-	-	-	-	204,718
fiber aerial cable	13,640	2,670	-	-	-	-	-	-	-	16,310
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	108	31	-	-	-	-	-	-	-	139
fiber buried placement	67,220	16,508	-	-	-	-	-	-	-	83,728
poles	6,639	1,689	-	-	-	-	-	-	-	8,328
TOTAL	\$ 259,929	\$ 54,501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 314,430
Summary										
Cost of Capital	\$ 1,021,608	\$ 214,836	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,236,444
Network Expense	259,929	54,501	-	-	-	-	-	-	-	314,430
TOTAL	\$ 1,281,537	\$ 269,337	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,550,874

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	\$ 2,217,695	\$ 692,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,909,771
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	422,947	102,053	-	-	-	-	-	-	-	525,000
land	59,911	10,089	-	-	-	-	-	-	-	70,000
TOTAL	\$ 2,700,554	\$ 804,217	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,504,771
	77.05%	22.95%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
end office switching	\$ 358,861	\$ 111,990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,851
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	63,888	15,415	-	-	-	-	-	-	-	79,303
land	10,080	1,697	-	-	-	-	-	-	-	11,778
TOTAL	\$ 432,829	\$ 129,102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	561,931
Network Expenses										
end office switching	\$ 105,341	\$ 32,874	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	138,214
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	46,639	11,254	-	-	-	-	-	-	-	57,893
land	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 151,980	\$ 44,127	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	196,107
Summary										
Cost of Capital	\$ 432,829	\$ 129,102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	561,931
Network Expense	151,980	44,127	-	-	-	-	-	-	-	196,107
TOTAL	\$ 584,809	\$ 173,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	758,038

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	\$ 7,094	\$ 2,939	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,033
SCP wire center	1,135	470	-	-	-	-	-	-	-	1,605
STP	15,606	6,465	-	-	-	-	-	-	-	22,072
signaling links	234,623	26,694	-	-	-	-	-	-	-	261,317
TOTAL	\$ 258,458	\$ 36,568	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	295,027
	87.61%	12.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
SCP	\$ 1,148	\$ 476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,623
SCP wire center	171	71	-	-	-	-	-	-	-	242
STP	2,525	1,046	-	-	-	-	-	-	-	3,572
signaling links	37,541	4,271	-	-	-	-	-	-	-	41,812
TOTAL	\$ 41,386	\$ 5,864	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,250
Network Expenses										
SCP	\$ 337	\$ 140	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	477
SCP wire center	125	52	-	-	-	-	-	-	-	177
STP	741	307	-	-	-	-	-	-	-	1,048
signaling links	9,094	1,035	-	-	-	-	-	-	-	10,129
TOTAL	\$ 10,297	\$ 1,533	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,831
Summary										
Cost of Capital	\$ 41,386	\$ 5,864	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,250
Network Expense	10,297	1,533	-	-	-	-	-	-	-	11,831
TOTAL	\$ 51,683	\$ 7,397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	59,080

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	271,891	370,173	-	-	-	-	-	-	-	642,064
aerial cable	8,472	11,586	-	-	-	-	-	-	-	20,058
poles	5,017	6,674	-	-	-	-	-	-	-	11,690
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 285,380	\$ 388,432	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	673,812
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	42,040	57,237	-	-	-	-	-	-	-	99,277
aerial cable	1,343	1,836	-	-	-	-	-	-	-	3,179
poles	1,063	1,414	-	-	-	-	-	-	-	2,478
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 44,447	\$ 60,488	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	104,934
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	10,571	14,392	-	-	-	-	-	-	-	24,962
aerial cable	533	729	-	-	-	-	-	-	-	1,261
poles	207	275	-	-	-	-	-	-	-	482
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 11,311	\$ 15,396	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,706
Summary										
Cost of Capital	\$ 44,447	\$ 60,488	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	104,934
Network Expense	11,311	15,396	-	-	-	-	-	-	-	26,706
TOTAL	\$ 55,757	\$ 75,883	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,641
Transmission Terminal										
investment	\$ 265,451	\$ 163,473	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	428,925
levelized cost of capital	51,854	31,933	-	-	-	-	-	-	-	83,787
network expenses	4,061	2,501	-	-	-	-	-	-	-	6,563
TOTAL	\$ 55,915	\$ 34,434	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	90,349

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	995,767	182,379	-	-	-	-	-	-	-	1,178,146
aerial cable	30,248	5,639	-	-	-	-	-	-	-	35,887
poles	18,553	3,363	-	-	-	-	-	-	-	21,916
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 1,044,568	\$ 191,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,235,949
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	153,968	28,200	-	-	-	-	-	-	-	182,168
aerial cable	4,794	894	-	-	-	-	-	-	-	5,688
poles	3,932	713	-	-	-	-	-	-	-	4,645
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 162,694	\$ 29,806	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	192,501
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	38,714	7,091	-	-	-	-	-	-	-	45,804
aerial cable	1,902	355	-	-	-	-	-	-	-	2,257
poles	766	139	-	-	-	-	-	-	-	905
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 41,382	\$ 7,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,966
Summary										
Cost of Capital	\$ 162,694	\$ 29,806	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	192,501
Network Expense	41,382	7,584	-	-	-	-	-	-	-	48,966
TOTAL	\$ 204,076	\$ 37,390	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	241,466
Transmission Terminal										
investment	\$ 207,665	\$ 41,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	249,003
levelized cost of capital	40,565	8,075	-	-	-	-	-	-	-	48,641
network expenses	3,177	632	-	-	-	-	-	-	-	3,810
TOTAL	\$ 43,743	\$ 8,708	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	52,450

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	2,449,060	521,276	-	-	-	-	-	-	-	2,970,335
aerial cable	73,926	16,178	-	-	-	-	-	-	-	90,105
poles	45,232	9,604	-	-	-	-	-	-	-	54,836
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 2,568,218	\$ 547,058	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,115,276
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	378,680	80,601	-	-	-	-	-	-	-	459,281
aerial cable	11,717	2,564	-	-	-	-	-	-	-	14,281
poles	9,586	2,035	-	-	-	-	-	-	-	11,622
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 399,983	\$ 85,201	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	485,184
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	95,215	20,266	-	-	-	-	-	-	-	115,482
aerial cable	4,649	1,017	-	-	-	-	-	-	-	5,666
poles	1,867	396	-	-	-	-	-	-	-	2,263
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 101,731	\$ 21,680	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	123,412
Summary										
Cost of Capital	\$ 399,983	\$ 85,201	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	485,184
Network Expense	101,731	21,680	-	-	-	-	-	-	-	123,412
TOTAL	\$ 501,715	\$ 106,881	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	608,595
Transmission Terminal										
investment	\$ 520,962	\$ 115,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	636,301
levelized cost of capital	101,765	22,530	-	-	-	-	-	-	-	124,296
network expenses	7,971	1,765	-	-	-	-	-	-	-	9,735
TOTAL	\$ 109,736	\$ 24,295	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	134,031

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	\$ 314,060	\$ 124,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	439,010
wire center	636,366	263,634	-	-	-	-	-	-	-	900,000
TOTAL	\$ 950,427	\$ 388,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,339,010
Levelized Cost of Capital										
tandem switching	\$ 50,820	\$ 20,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	71,039
wire center	96,125	39,823	-	-	-	-	-	-	-	135,948
TOTAL	\$ 146,945	\$ 60,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	206,987
Network Expenses										
tandem switching	\$ 14,918	\$ 5,935	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20,853
wire center	70,174	29,071	-	-	-	-	-	-	-	99,245
TOTAL	\$ 85,091	\$ 35,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	120,098
Summary										
Cost of Capital	\$ 146,945	\$ 60,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	206,987
Network Expense	85,091	35,007	-	-	-	-	-	-	-	120,098
TOTAL	\$ 232,037	\$ 95,048	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	327,085

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	\$ 711,877	\$ 294,161	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,006,039
OS Tandem Wire Center	1,060,610	439,390	-	-	-	-	-	-	-	1,500,000
OS Trunks	428,501	83,875	-	-	-	-	-	-	-	512,376
OS Position	4,140	1,715	-	-	-	-	-	-	-	5,856
TOTAL	\$ 2,205,130	\$ 819,141	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,024,271
Levelized Cost of Capital										
OS Tandem Switching	\$ 115,194	\$ 47,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	162,794
OS Tandem Wire Center	160,208	66,371	-	-	-	-	-	-	-	226,580
OS Trunks	66309.22536	12979.36421	0	0	0	0	0	0	0	79,289
OS Position	1,002	415	-	-	-	-	-	-	-	1,417
TOTAL	\$ 342,714	\$ 127,366	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,080
Network Expenses										
OS Tandem Switching	\$ 33,814	\$ 13,973	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,787
OS Tandem Wire Center	116,956	48,452	-	-	-	-	-	-	-	165,408
OS Trunks	16,609	3,251	-	-	-	-	-	-	-	19,860
OS Position	280	116	-	-	-	-	-	-	-	395
Operator Wages	7,272	3,013	-	-	-	-	-	-	-	10,285
TOTAL	\$ 174,931	\$ 68,805	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	243,736
Summary										
Cost of Capital	\$ 342,714	\$ 127,366	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,080
Network Expense	174,931	68,805	-	-	-	-	-	-	-	243,736
TOTAL	\$ 517,645	\$ 196,171	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	713,816

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	\$ 1,275	\$ 3,391	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,666
	27.32%	72.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital	\$ 261	\$ 693	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	954
Network Expenses	\$ 240	\$ 638	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	878
Summary										
Cost of Capital	\$ 261	\$ 693	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	954
Network Expense	240	638	-	-	-	-	-	-	-	878
TOTAL	\$ 500	\$ 1,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,832

DeprecLife	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
CCCFact	1.08310	0.58381	0.41833	0.33629	0.28763	0.25565	0.23320	0.21670	0.20416	0.19439	0.18663	0.18036	0.17525	0.17104	0.16754	0.16462	0.16217	0.16010	0.15836	0.15689	0.15565	0.15460	0.15371	0.15297	0.15234	0.15182	0.15139	0.15104	0.15076	0.15053	0.15036	0.15023	0.15013	
DeprecFact	1.00000	0.50000	0.33333	0.25000	0.20000	0.16667	0.14286	0.12500	0.11111	0.10000	0.09091	0.08333	0.07692	0.07143	0.06667	0.06250	0.05882	0.05556	0.05263	0.05000	0.04762	0.04545	0.04348	0.04167	0.04000	0.03846	0.03704	0.03571	0.03448	0.03333	0.03226	0.03125	0.03030	
RORFact	0.05841	0.05891	0.05974	0.06065	0.06160	0.06255	0.06350	0.06446	0.06540	0.06635	0.06728	0.06820	0.06912	0.07002	0.07090	0.07178	0.07264	0.07349	0.07432	0.07513	0.07593	0.07671	0.07748	0.07823	0.07896	0.07968	0.08038	0.08106	0.08173	0.08238	0.08301	0.08363	0.08423	
TaxGUFact	0.02469	0.02490	0.02525	0.02564	0.02604	0.02644	0.02684	0.02725	0.02765	0.02804	0.02844	0.02883	0.02922	0.02960	0.02997	0.03034	0.03070	0.03106	0.03141	0.03176	0.03210	0.03243	0.03275	0.03307	0.03338	0.03368	0.03398	0.03427	0.03455	0.03482	0.03509	0.03535	0.03560	
COE	13.19%		EquityF	55.80%		WACC	11.25%		Tax	39.25%																								
COD	8.80%		EquityP	65.42%		GtUpROR	16.00%		Disct	11.25%																								
NPV-EoP	0.97081	0.99366	1.01497	1.03485	1.05342	1.07077	1.08699	1.10217	1.11639	1.12971	1.14220	1.15392	1.16492	1.17526	1.18498	1.19413	1.20275	1.21087	1.21853	1.22576	1.23258	1.23904	1.24514	1.25092	1.25639	1.26158	1.26650	1.27117	1.27561	1.27982	1.28384	1.28766	1.29130	
NPV-BoP	1.08002	1.10544	1.12915	1.15127	1.17192	1.19123	1.20928	1.22616	1.24198	1.25680	1.27069	1.28373	1.29597	1.30747	1.31829	1.32847	1.33806	1.34709	1.35561	1.36365	1.37125	1.37842	1.38521	1.39164	1.39773	1.40350	1.40897	1.41417	1.41911	1.42380	1.42826	1.43252	1.43657	
Pmt-EoP	1.14077	0.61490	0.44061	0.35420	0.30295	0.26927	0.24562	0.22824	0.21503	0.20474	0.19657	0.18997	0.18459	0.18015	0.17646	0.17339	0.17080	0.16863	0.16679	0.16524	0.16393	0.16283	0.16190	0.16111	0.16045	0.15991	0.15946	0.15909	0.15879	0.15855	0.15823	0.15813		
Pmt-BoP	1.02542	0.55272	0.39605	0.31838	0.27231	0.24204	0.22078	0.20516	0.19329	0.18404	0.17669	0.17076	0.16592	0.16193	0.15862	0.15585	0.15353	0.15158	0.14993	0.14854	0.14736	0.14636	0.14552	0.14482	0.14423	0.14374	0.14333	0.14300	0.14273	0.14252	0.14235	0.14214		
Year	1	1.08002	0.62004	0.46671	0.39004	0.34404	0.31338	0.29147	0.27505	0.26227	0.25205	0.24368	0.23671	0.23082	0.22576	0.22138	0.21755	0.21416	0.21116	0.20847	0.20605	0.20386	0.20187	0.20005	0.19838	0.19685	0.19543	0.19412	0.19290	0.19177	0.19071	0.18973	0.18880	0.18793
2		0.54001		0.41336	0.35003	0.31203	0.28670	0.26861	0.25504	0.24448	0.23604	0.22913	0.22338	0.21850	0.21433	0.21071	0.20754	0.20475	0.20227	0.20004	0.19804	0.19624	0.19459	0.19309	0.19171	0.19045	0.18928	0.18819	0.18719	0.18625	0.18538	0.18456	0.18308	
3			0.36001	0.31002	0.28002	0.26003	0.24575	0.23503	0.22670	0.22004	0.21458	0.21004	0.20619	0.20290	0.20004	0.19754	0.19534	0.19338	0.19162	0.19004	0.18861	0.18732	0.18613	0.18504	0.18404	0.18312	0.18227	0.18147	0.18073	0.18004	0.17940	0.17879	0.17823	
4				0.27001	0.24801	0.23355	0.22288	0.21503	0.20892	0.20403	0.20003	0.19670	0.19388	0.19147	0.18937	0.18754	0.18592	0.18448	0.18320	0.18204	0.18099	0.18004	0.17917	0.17837	0.17764	0.17697	0.17634	0.17576	0.17522	0.17471	0.17424	0.17379	0.17338	
5					0.21600	0.20668	0.20002	0.19502	0.19114	0.18803	0.18548	0.18336	0.18157	0.18003	0.17870	0.17753	0.17651	0.17559	0.17477	0.17404	0.17337	0.17277	0.17221	0.17171	0.17124	0.17081	0.17041	0.17004	0.16970	0.16937	0.16907	0.16879	0.16853	
6						0.18000	0.17715	0.17502	0.17335	0.17202	0.17093	0.17003	0.16926	0.16860	0.16803	0.16753	0.16709	0.16670	0.16635	0.16604	0.16575	0.16549	0.16525	0.16504	0.16484	0.16465	0.16448	0.16432	0.16418	0.16404	0.16391	0.16379	0.16368	
7							0.15429	0.15501	0.15557	0.15602	0.15638	0.15669	0.15695	0.15717	0.15736	0.15753	0.15768	0.15781	0.15793	0.15803	0.15813	0.15822	0.15830	0.15837	0.15844	0.15850	0.15856	0.15861	0.15866	0.15870	0.15875	0.15879	0.15883	
8								0.13779	0.14001	0.14183	0.14335	0.14464	0.14574	0.14669	0.14753	0.14826	0.14892	0.14950	0.15003	0.15051	0.15094	0.15134	0.15170	0.15203	0.15234	0.15263	0.15289	0.15314	0.15337	0.15359	0.15379	0.15398		
9									0.12000	0.12401	0.12728	0.13001	0.13232	0.13430	0.13602	0.13752	0.13885	0.14003	0.14108	0.14203	0.14289	0.14367	0.14438	0.14503	0.14563	0.14619	0.14670	0.14718	0.14762	0.14803	0.14842	0.14879	0.14913	
10										0.10800	0.11273	0.11668	0.12001	0.12293	0.12535	0.12732	0.12943	0.13113	0.13266	0.13403	0.13526	0.13639	0.13742	0.13836	0.13923	0.14003	0.14077	0.14146	0.14210	0.14270	0.14326	0.14378	0.14428	
11											0.09818	0.10334	0.10770	0.11144	0.11468	0.11752	0.12002	0.12224	0.12423	0.12602	0.12764	0.12912	0.13046	0.13169	0.13283	0.13388	0.13484	0.13574	0.13658	0.13736	0.13810	0.13878	0.13943	
12												0.09000	0.09539	0.10001	0.10401	0.10751	0.11060	0.11335	0.11581	0.11802	0.12002	0.12184	0.12350	0.12503	0.12643	0.12772	0.12892	0.13003	0.13106	0.13203	0.13293	0.13378	0.13458	
13													0.08308	0.08858	0.09334	0.09751	0.10119	0.10446	0.10739	0.11002	0.11240	0.11457	0.11654	0.11836	0.12002	0.12156	0.12299	0.12431	0.12554	0.12670	0.12777	0.12878	0.12973	
14														0.07714	0.08267	0.08751	0.09177	0.09557	0.09896	0.10202	0.10478	0.10729	0.10959	0.11169	0.11362	0.11541	0.11706	0.11860	0.12003	0.12136	0.12261	0.12378	0.12488	
15															0.07750	0.08236	0.08668	0.09054	0.09401	0.09716	0.10002	0.10263	0.10502	0.10722	0.10925	0.11113	0.11288	0.11451	0.11603	0.11745	0.11878	0.12003		
16																0.06750	0.07295	0.07778	0.08211	0.08601	0.08954	0.09274	0.09567	0.09835	0.10082	0.10310	0.10521	0.10716	0.10899	0.11069	0.11228	0.11378	0.11518	
17																	0.06353	0.06889	0.07369	0.07801	0.08192	0.08547	0.08871	0.09168	0.09442	0.09694	0.09928	0.10145	0.10347	0.10536	0.10712	0.10877	0.11033	
18																		0.06000	0.06527	0.07001	0.07429	0.07819	0.08175	0.08501	0.08801	0.09079	0.09335	0.09573	0.09795	0.10002	0.10196	0.10377	0.10548	
19																			0.05684	0.06200	0.06667	0.07092	0.07479	0.07834	0.08161	0.08463	0.08742	0.09002	0.09243	0.09469	0.09679	0.09877	0.10063	
20																				0.05400	0.05905	0.06364	0.06783	0.07168	0.07521	0.07847	0.08149	0.08430	0.08691	0.08935	0.09163	0.09377	0.09578	
21																					0.05143	0.05637	0.06087	0.06501	0.06881	0.07232	0.07557	0.07858	0.08139	0.08402	0.08647	0.08877	0.09093	
22																						0.04909	0.05392	0.05834	0.06241	0.06616	0.06964	0.07287	0.07587	0.07868	0.08131	0.08377	0.08608	
23																							0.04696	0.05167	0.05600	0.06001	0.06371	0.06715	0.07036	0.07335	0.07614	0.07876	0.08123	
24																								0.04500	0.05078	0.05644	0.06184	0.06681	0.07198	0.07676	0.08131	0.08577	0.09003	
25																									0.04320	0.04770	0.05186	0.05572	0.05932	0.06268	0.06582	0.06876	0.07153	
26																										0.04154	0.04593	0.05000	0.05380	0.05734	0.06065	0.06376	0.06668	
27																											0.04000	0.04429	0.04828	0.05201	0.05549	0.05876	0.06183	
28																												0.03857	0.04276	0.04667	0.05033	0.05376	0.05698	
29																																		

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	0.02073	0.02032	0.02564	0.02500	0.02439	0.02381	0.02236	0.02273	0.02222	0.02174	0.02128	0.02083	0.02041	0.02000	0.01961	0.01923	0.01887	0.01852	0.01818	0.01786	0.01754	0.01724	0.01695	0.01667	0.01639	0.01613	0.01587	0.01563	0.01538	0.01515	
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	0.15453
COE																																		
COB																																		
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	0.15835	0.15845	0.15855	0.15866	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	0.16048	0.16060	0.16071	0.16083	0.16094	0.16105	0.16115	
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	0.15433	0.15442	0.15450	0.15459	
10	0.14474	0.14518	0.14559	0.14598	0.14635	0.14670	0.14704	0.14735	0.14769	0.14802	0.14834	0.14867	0.14901	0.14934	0.14964	0.14994	0.15024	0.15053	0.15081	0.15109	0.15137	0.15165	0.15192	0.15219	0.15246	0.15273	0.15300	0.15327	0.15354	0.15381	0.15408	0.15435	0.15462	
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	0.14853	0.14874	0.14895	0.14916	0.14937	0.14958	0.14979	0.14999	
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	0.14290	0.14324	0.14357	0.14388	0.14419	0.14448	0.14477	0.14506	0.14535	0.14564	0.14593	0.14622	0.14650	0.14678	0.14706	0.14734	0.14762	0.14790	
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	0.14393	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	0.11667	0.11748	0.11823	0.11893	0.11958	0.12018	0.12076	0.12132	0.12187	0.12240	0.12291	0.12341	0.12389	0.12436	0.12482	0.12528	0.12573	0.12618	0.12662	0.12706	0.12749	0.12791	0.12833	0.12875	0.12916	0.12956	0.12995	0.13034	0.13072	
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	0.11919	0.12003	0.12083	0.12160	0.12234	0.12305	0.12374	0.12440	0.12505	0.12569	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	0.10406	0.10534	0.10657	0.10776	0.10891	0.11000	0.11104	0.11203	0.11300	0.11394	0.11483	0.11568	0.11649	0.1172													

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	0.12656	0.12709	0.12766	0.12823	0.12877	0.12928	0.12976	0.13024	0.13069	0.13112	0.13154	0.13194	0.13233	0.13269
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	0.12209
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	0.10767	0.10836	0.10907	0.10976	0.11041	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	Mark Twain Rural Telephone Co	

May 4, 2006
4:13 PM

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	46,354	
intrastate DEMs, thousands	9,897	
interstate DEMs, thousands	9,771	
Local call completion fraction	70.00%	
Total local calls attempted	10,503	
Total intraLATA calls completed	628	
Total interLATA calls completed - intrastate	632	
Total interLATA calls completed - interstate	1,345	
local DEM fraction	68.21%	
local interoffice traffic fraction	12.04%	
D link investment, per link	\$ 4,500	
Bus/Res DEMs ratio (local, state, interstate)	110%	
entrance facility investment per line	74.5	
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	28	
Average trunk utilization	30.00%	

66,022 total DEMs, thousands
7,352 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			18.06	Calculated
2411	Poles	15.92	-0.8998	8.38	
2421-m	Aerial Cable - Metallic	16.75	-0.2303	13.61	\$ 226,326
2421-nm	Aerial Cable - Non-Metall	22.24	-0.1753	18.92	\$ 349,449
2422-m	Underground - Metallic	21.14	-0.1826	17.88	\$ -
2422-nm	Underground - Non-Meta	23.08	-0.1458	20.14	\$ -
2423-m	Buried - Metallic	19.9	-0.0839	18.36	\$ 4,472,202
2423-nm	Buried - Non-Metallic	23.86	-0.0858	21.97	\$ 10,056,146
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)				18.06	\$ 4,698,528
Average Non-Metallic Cable (calculated)				21.86	\$ 10,405,595

\$ 16,624
\$ 18,467
\$ -
\$ -
\$ 243,589
\$ 457,626
\$ 260,213
\$ 476,093

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	9,897,000	
Interstate Toll DEMs	9,771,000	
trunk port usage	113,671,186	
trk-min/mo	10,044	
interLATA ded. trunks	163	
Common Transport MOU		
Local	108,407	w/o OS usage
Intrastate Toll	9,897,000	
Interstate Toll	9,771,000	
	19,776,407	
Intrastate IntraLATA Calls	628	49.84% SOCCC message counts
Intrastate InterLATA Calls	632	50.16%
	1,260	

Calculation of EO Usage

Local DEMs, incl OS	46,354,000	70.2% of total DEMs
Intraoffice Local DEMs	40,774,708	
Intraoffice Local Actual Min	20,387,354	
Interoffice Local Actual Min	5,579,292	per end
Intrastate Toll Actual Min	9,897,000	
Interstate Toll Actual Min	<u>9,771,000</u>	
	45,634,646	
Tandem Switch MOU		
Local	54,204	Dedicated Trunk-SW
IntraLATA Toll	2,466,395	185
InterLATA Toll	<u>14,735,210</u>	
	17,255,808	

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		108			
		5300 UNCOLLECTIBLE REVENUES				41	
		530 NET REVENUES				2,597	
		GROSS REVENUES (5300 + 530)				2,638	
		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	C. EXP/INV (A/B)	
		TPIS GENERAL SUPPORT					
		2111 LAND			35	0.000000	
		2121 BUILDINGS			515	0	
6121		TOTAL LAND & BUILDINGS		57	551	0.103180	
6112	2112	2112 MOTOR VEHICLES		3	89	0.034751	
6113	2113	2113 AIRCRAFT		1	4	0.312456	
6114	2114	2114 SPECIAL PURPOSE VEHICLES		0	0	0.014245	
6115	2115	2115 GARAGE WORK EQUIPMENT		0	3	0.035334	
6116	2116	2116 OTHER WORK EQUIPMENT		1	70	0.011313	
6122	2122	2122 FURNITURE		4	34	0.122429	
6123	2123	2123 OFFICE EQUIPMENT		9	87	0.101497	
6124	2124	2124 GENERAL PURPOSE COMPUTERS		85	133	0.638091156	
6120	2110	2110 TOTAL LAND & SUPPORT ASSETS		155	970	0.15965268	
		TPIS - CENTRAL OFFICE SWITCHING					
		-					
6211	2211	2211 ANALOG ELECT SWITCH		3	57	0.045322	
6212	2212	2212 DIGITAL ELECTRONIC SWITCHING		97	1,696	0.056899071	
6220	2220	2220 OPERATOR SYSTEMS		2	26	0.06751836	
6210	2210	2210221022102210 CENTRAL OFFICE SWITCH		101	1,779	0.056940858	
		TPIS - CENTRAL OFFICE TRANSMISSION					
		-					
6232	2232	2232 CIRCUIT EQUIPMENT		19	1,169	0.016263483	
6230	2230	2230 TRANSMISSION		20	1,222	0.01663194	
		TPIS - INFORMATION ORIG/TERM					
		-					
6311	2311	2311 STATION APPARATUS		0	1	0.382353	
		2321 CUSTOMER PREMISES WIRING				#DIV/0!	
6341	2341	2341 LARGE PRIVATE BRANCH EXCHANGE		0	0	4.500000	
6351	2351	2351 PUBLIC TEL TERMINAL EQUIPMENT		7	37	0.188118	
6362	2362	2362 OTHER TERMINAL EQUIPMENT		11	64	0.176349542	
6310	2310	2310 TOTAL INFORMATION ORIG/TERM		19	102	0.182377792	
		TPIS - CABLE & WIRE FACILITIES					
		-					
6411	2411	2411 POLES		8	202	0.041273	
6421	2421	2421 AERIAL CABLE		60	950	0.062887	
6422	2422	2422 UNDERGROUND CABLE		12	695	0.019603	
6423	2423	2423 BURIED CABLE		65	1,681	0.038878	
6441	2441	2441 CONDUIT SYSTEMS		1	343	0.003678698	
6410	2410	2410 TOTAL CABLE & WIRE FACILITIES		148	3,820	0.038842	
		240 TOTAL TPIS(BEFORE AMORTIZABLE ASSETS) (2110+2210+2220+2230+2310+2410)		295	7,951	0.037082996	
		PLANT NON-SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. TPIS INVESTMENT	C. EXP/INV (A/B)		
		=	=	=	=		
6512	240	6512 PROVISIONING EXPENSES	2	7,951		0.000300	
6531	240	6531 POWER EXPENSES	13	7,951		0.001623	
6532	240	6532 NETWORK ADMINISTRATION	33	7,951		0.004102	
6533	240	6533 TESTING	34	7,951		0.004252	
6534	240	6534 PLANT OPERATIONS ADMINISTRATION	51	7,951		0.006391	
6535	240	6535 ENGINEERING	27	7,951		0.003373	
6540	240	6540 ACCESS EXPENSE	44	7,951		0.005573799	
6530	240	6530 TOTAL NETWORK OPERATIONS EXPENSES	157	7,951		0.019740601	
6561	240	6561 DEPRECIATION - TPIS	554 554 554 554	7,951 7,951 7,951 7,951		0.0696775250 0.069677525	
		65616561656165616561 DEPRECIATION - TPIS					
		NETWORK SUPPORT FACTOR CALCULATION	A. EXPENSES	B. CABLE & WIRE INV	C. EXP/INV (A/B)		
		=	=	=	=		
6112		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	3,820		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	79		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)	283	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	75	CALC
6720	6720 TOTAL GENERAL & ADMINISTRATIVE	256	CALC
	710 TOTAL CORPORATE OPERATIONS EXPENSE (6710 + 6720 + 6790)	337	CALC
	720 TOTAL OPERATING EXPENSES		CALC
	DEM - LOCAL	46,354	
	DEM - INTRASTATE	9,898	
	DEM - INTERSTATE	9,772	
	MESSAGES - INTRALATA	629	
	MESSAGES - INTERLATA - interstate	1,345	
	MESSAGES - INTERLATA - intrastate	632,833,054	
4308 (EC)	LOCAL CALL ATTEMPTS	16,563	
	LINES - BUSINESS	1,020	
	RESIDENTIAL	2,764	
	PUBLIC	32	
	SPECIAL	253	
	TOTAL	4,074	
	5081 END USER		173
	5082 SWITCHED ACCESS		387
	5083 SPECIAL ACCESS		71
	TOTAL INTER ACCESS		631
	5084 END USER		
	5084 SWITCHED ACCESS		
	5084 SPECIAL ACCESS		
	STATE ACCESS		325
	TOTAL ACCESS REVENUES		956
	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		310
	BASIC LOCAL SERVICE		
	5001 BASIC AREA		642
	5002 OPTIONAL EXTEND AREA		26
	5003 CELLAR MOBIL		20
	5004 OTHER MOBIL SVC		2
	TOTAL BASIC SVC		889
	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				207	
	TOTAL LOCAL NETWORK SRVC REVENUE INTERSTATE INTRASTATE				1151.912961	
	TOTAL REVENUE				2418.025326	
	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				1151.941008
	LD Ntwk Svs Rev	4303.Ln 525				312.369628
	End User	4303.Ln 5081				172.8609334
	Sw Acc	4303.Ln 5082				387.0200702
	Spcl Acc	4303.Ln 5083				71.22141959
	St Acc	4303.Ln 5084				325.090196
	Uncoll Rev	4303.Ln 5300				40.9701632
	Tot Acc	4304.Ln4040 (P)				3.395995857
	B&C	4304.Ln4040 (Q)				0.333544669
	IX	4304.Ln4040 (R)				0.01205741
	Ln4040 (P+Q+R)	Calc (P+Q+R)				3.741597936
Uncoll -Acc	5300-(4040p..r)	1a				37.22856526
End User+ Rievs	5081+520+525	1b				1637.171569
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	\$ 35	\$ -	-	
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	\$ 515	\$ 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	\$ 133	\$ 85	0.6381	
2110 Total Land & Support Assets	\$ 970	\$ 160	0.1650	
TPIS - Central Office Switching				
2211 Analog Electronic Switching	\$ 57	\$ 3	0.0453	
2212 Digital Electronic Switching	\$ 1,696	\$ 97	0.0569	4.75% NET CO Switch Factor
2210 Total Central Office Switching	\$ 1,753	\$ 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	\$ 1,169	\$ 19	0.0163	1.53% alternative factor
2230 Total Central Office Transmission	\$ 1,169	\$ 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	\$ 950	\$ 60	0.0629	0.0629
2422 Underground Cable	\$ 605	\$ 12	0.0196	0.0196
2423 Buried Cable	\$ 1,681	\$ 65	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	\$ 343	\$ 1	0.0037	
2410 Total Cable & Wire Facilities	\$ 3,780	\$ 146	0.0388	
240 Total TPIS (before amortizable assets)	\$ 6,828	\$ 445	0.0652	
Plant Non-Specific Operations Expenses				
	Expenses	Investment	Factor	
6512 Provisioning Expenses	\$ 2	\$ 6,828	0.0003	
6531 Power Expenses	\$ 13	\$ 6,828	0.0019	8.10% all
6532 Network Administration	\$ 33	\$ 6,828	0.0048	20.47% switching, interoffice
6533 Testing	\$ 34	\$ 6,828	0.0050	21.22% all
6534 Plant Operations Administration	\$ 51	\$ 6,828	0.0074	31.89% all
6535 Engineering	\$ 27	\$ 6,828	0.0039	16.83% all
6540 Access Expense				
6530 Total Network Operations Expenses (includes provisioning)	\$ 159	\$ 6,828	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	\$ 3,780	0.0011	(=total ARMIS 6530/total lines)
				4,074
				\$ 39.11

Customer Operations Expenses

	Expenses		Net Revenues		Factor			
6611 Product Management *	\$	23	\$	0.4638	\$	1,363	0.0166	
6612 Sales *	\$	42	\$	0.8522	\$	1,363	0.0306	
6613 Product Advertising	\$	15			\$	1,363	0.0110	
6610 Total Marketing Expenses	\$	79					0.0582	
6621 Call Completion Service	\$	18			\$	1,363	0.0131	
6622 Number Services	\$	43	\$	0.8863	\$	1,363	0.0318	
6623 Customer Services	\$	143	\$	2.9168	\$	1,363	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	\$	283.16			\$	1,363	0.2078	0.2442

Corporate Operations Expenses

Corporate Operations Expense		Expenses	Revenues	Factor		
6711 Executive	\$	11	\$	1,363	0.0079	
6712 Planning	\$	5	\$	1,363	0.0039	
6710 Total Executive & Planning	\$	16	\$	1,363	0.0117	
6721 Accounting & Finance	\$	32	\$	1,363	0.0237	
6722 External Relations	\$	20	\$	1,363	0.0144	
6723 Human Resources	\$	23	\$	1,363	0.0171	
6724 Information Management	\$	89	\$	1,363	0.0653	
6725 Legal	\$	7	\$	1,363	0.0055	
6726 Procurement	\$	4	\$	1,363	0.0030	
6727 Research & Development	\$	5	\$	1,363	0.0038	
6728 Other General & Administrative	\$	75	\$	1,363	0.0554	
6720 Total General & Administrative	\$	256	\$	1,363	0.1880	
710 Total Corporate Operations Expense	\$	272	\$	1,363	0.1040	0.2347
720 Total Operating Expenses	\$	1,160				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	\$ 133	\$ 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	\$ 37,528	\$ 37,528	\$ 37,528	\$ 37,528	\$ 37,528	\$ 37,528	\$ 37,528
Calculated Investment	\$ 186	\$ 477	\$ 733	\$ 490	\$ 1,416	\$ 14	\$ 382
Calculated Expense	\$ 23	\$ 48	\$ 468	\$ 17	\$ 156	\$ 0	\$ 4
Subtotal (\$s)	\$ 316,569						
Total Misc Expense	\$ 316,569						

Other Taxes & Uncollectibles Calculation

	Expenses		Net Revenues		Factor
7230 Operating State & Local Income Tax	\$	26	\$	(132)	
7240 Operating Other Taxes	\$	108	\$	(132)	0.0500
5300 Uncollectible Revenues	\$	41	\$	1,363	0.0301
retail					0.0227
wholesale					0.0043
Ratio of Net Plant to TPIS					
TPIS	\$	6,828			
Net Plant	\$	6,828			
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	\$ 387	18.49%
5083 Special Access	\$ 71	3.40%
Total Inter Access	\$ 631	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	\$ 631	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	\$ 310	14.81%

Basic Local Service		
5001 Basic Area	\$ 842	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	\$ 889	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	\$ 207	9.89%
Total Local Network Service Revenue		
Interstate	\$ -	0.00%
Intrastate	\$ 1,152	55.04%
Total Revenue	\$ 2,093	100.00%

HAI Model Release 5.0a

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\HMWKMO4219141.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

HAI Model Release 5.0a
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	10,503	10,503	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	628	628	Distribution Buried Shring Fraction - 100	1.00	1.00
InterLATA intrastate Calls Completed	632	632	Distribution Buried Shring Fraction - 200	1.00	1.00
InterLATA interstate Calls Completed	1,345	1,345	Distribution Buried Shring Fraction - 650	1.00	1.00
Local DEMs, thousands	46,354	46,354	Distribution Buried Shring Fraction - 850	1.00	1.00
Intrastate DEMs, thousands	9,897	9,897	Distribution Buried Shring Fraction - 2550	1.00	1.00
Interstate DEMs, thousands	9,771	9,771	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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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			

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User Adjustable Inputs

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