

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	499	-	499	-	-	-	481	\$	-	\$	-	\$	630,560	\$	31,102	\$	-	\$	-	\$	238,210		
5	DLC	1,827	258	1,519	42	8	20	1,467	\$	-	\$	-	\$	929,108	\$	45,735	\$	-	\$	-	\$	453,073		
100	DLC																							
200	DLC																							
650	DLC																							
850	DLC																							
2550	DLC																							
5000	DLC																							
10000	DLC																							
0	non-DLC																							
5	non-DLC																							
100	non-DLC																							
200	non-DLC																							
650	non-DLC																							
850	non-DLC																							
2550	non-DLC																							
5000	non-DLC																							
10000	non-DLC																							
Totals/Avg		2,326	258	2,018	42	8	20	1,948	\$	-	\$	-	\$	-	\$	1,559,669	\$	76,837	\$	-	\$	-	\$	691,283

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	\$ 23,040	\$ -	\$ 593,984	\$ 30,060	\$ -	\$ -	\$ 810,484	\$ 49,206	0.00%	30.37%	0.00%	\$ 331,773	\$ 6,650	\$ 41,883	\$ 51,603	\$ 14,015	208,548
5	DLC	\$ 41,632	\$ -	\$ 1,404,608	\$ 71,083	\$ -	\$ -	\$ 1,731,925	\$ 96,302	0.00%	35.65%	0.00%	\$ 639,517	\$ 16,800	\$ 153,391	\$ 169,805	\$ 47,293	278,199
100	DLC																	
200	DLC																	
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC																	
5	non-DLC																	
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ 64,673	\$ -	\$ 1,998,592	\$ 101,143	\$ -	\$ -	\$ 2,542,409	\$ 145,508				\$ 971,290	\$ 23,450	\$ 195,273	\$ 221,408	\$ 61,308	486,747

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	478,115	499	\$	412,442	\$	-	\$	63,527	\$	10,978	\$	948	\$	1,247	\$	399	\$	499	\$	83,096	\$	728	\$	2,606	\$	83,074	\$	508,326	\$	14,913	\$	8,519	\$	-
5	DLC	977,871	1,827	\$	1,245,752	\$	-	\$	161,473	\$	19,022	\$	3,392	\$	4,463	\$	1,428	\$	1,785	\$	83,074	\$	2,606	\$	2,606	\$	83,074	\$	484,554	\$	14,467	\$	8,776	\$	-
100	DLC																																		
200	DLC																																		
650	DLC																																		
850	DLC																																		
2550	DLC																																		
5000	DLC																																		
10000	DLC																																		
0	non-DLC																																		
5	non-DLC																																		
100	non-DLC																																		
200	non-DLC																																		
650	non-DLC																																		
850	non-DLC																																		
2550	non-DLC																																		
5000	non-DLC																																		
10000	non-DLC																																		
Totals/Avg		1,455,986	2,326	\$	1,658,194	\$	-	\$	225,000	\$	30,000	\$	4,340	\$	5,710	\$	1,827	\$	2,284	\$	166,171	\$	3,335	\$	-	\$	992,880	\$	29,379	\$	17,295	\$	-		

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		\$ 119,210	\$	\$ 189,567	\$ 5,593	\$ 3,245	\$ -		\$ 44,500		\$ 267,037	\$ 7,683	\$ 4,146	\$ -		\$ 62,314	17
5	DLC		\$ 223,859	\$	\$ 188,800	\$ 5,632	\$ 3,451	\$ -		\$ 83,098		\$ 106,712	\$ 3,171	\$ 1,668	\$ -		\$ 49,052	27
100	DLC																	
200	DLC																	
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC																	
5	non-DLC																	
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ -	\$ 343,069	\$ -	\$ 378,367	\$ 11,225	\$ 6,696	\$ -	\$ -	\$ 127,597	\$ -	\$ 373,749	\$ 10,854	\$ 5,814	\$ -	\$ -	\$ 111,366	44

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	5	2	24	44	54	12	1,247	\$ 200	\$ 2,744	\$ 31,524	\$ -	7,808,514	-	4,697,201
5	DLC	9	4	39	46	83	19	4,463	\$ 714	\$ 9,818	\$ 34,545	\$ 5,887	23,776,743	6,110,743	8,551,936
100	DLC														-
200	DLC														-
650	DLC														-
850	DLC														-
2550	DLC														-
5000	DLC														-
10000	DLC														-
0	non-DLC														-
5	non-DLC														-
100	non-DLC														-
200	non-DLC														-
650	non-DLC														-
850	non-DLC														-
2550	non-DLC														-
5000	non-DLC														-
10000	non-DLC														-
Totals/Avg		14	6	63	90	137	31	5,710	\$ 914	\$ 12,562	\$ 66,069	\$ 5,887	31,585,257	6,110,743	13,249,137

Universal Service Calculation Sheet - monthly costs per line

Missouri
Craw - Kan Telephone Cooperative Inc - Missouri

	0 - 5 lines/sq mi	5 - 100 lines/sq mi	100 - 200 lines/sq mi	200 - 650 lines/sq mi	650 - 850 lines/sq mi	850 - 2,550 lines/sq mi	2,550 - 5,000 lines/sq mi	5,000 - 10,000 lines/sq mi	> 10,000 lines/sq mi	Weighted Average
Local network costs										
Loop	\$ 126.24	\$ 70.18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82.43
Port	6.08	6.08	-	-	-	-	-	-	-	6.08
End office usage	8.07	8.07	-	-	-	-	-	-	-	8.07
Signaling	0.21	0.21	-	-	-	-	-	-	-	0.21
Transport	5.15	5.15	-	-	-	-	-	-	-	5.15
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	\$ 148.78	\$ 92.72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 104.96
@ Residence usage per line	\$ 148.59	\$ 92.53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 106.39
@ Business usage per line	\$ 150.22	\$ 94.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94.16
Total switched lines	499	1,785	-	-	-	-	-	-	-	2,284
Primary residence lines	481	1,467	-	-	-	-	-	-	-	1,948
Secondary residence lines	18	52	-	-	-	-	-	-	-	70
Single line business lines	-	20	-	-	-	-	-	-	-	20
Multiline business lines	-	239	-	-	-	-	-	-	-	239
Public lines	-	8	-	-	-	-	-	-	-	8
FEDERAL FUND ANALYSIS										
Annual Support										
for line types:	Specify	Bench								
Primary residence lines	X	\$31.00	\$ 678,441	\$ 1,083,055	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,761,496
Secondary residence lines		\$31.00	\$ 25,548	\$ 38,606	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64,155
Single line business lines	X	\$51.00	\$ 0	\$ 10,203	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,203
Multiline business lines		\$51.00	\$ 0	\$ 123,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 123,525
Public lines		\$51.00	\$ 0	\$ 4,012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,012
Support cost if all lines supported			\$ 703,989	\$ 1,259,401	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,963,391
Total annual support for specified lines										
@25% Federal allocation			\$ 169,610	\$ 273,315	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 442,925
@Implied 75% State allocation			\$ 508,831	\$ 819,944	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,328,775

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

\$20.00	\$ 741,905	\$ 1,276,679	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,018,585
\$30.00	\$ 684,210	\$ 1,100,657	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,784,868
\$40.00	\$ 626,515	\$ 924,636	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,551,151
\$50.00	\$ 568,820	\$ 748,614	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,317,434
\$60.00	\$ 511,125	\$ 572,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,083,717
\$70.00	\$ 453,430	\$ 396,571	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 850,001
\$80.00	\$ 395,735	\$ 220,549	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 616,284

STATE FUND ANALYSIS															
Annual Support for line types:		Specify	Bench mark												
Primary residence lines	X	\$31.00	\$	678,441	\$	1,083,055	\$	-	\$	-	\$	-	\$	1,761,496	
Secondary residence lines		\$31.00	\$	25,548	\$	38,606	\$	-	\$	-	\$	-	\$	64,155	
Single line business lines	X	\$51.00	\$	0	\$	10,203	\$	-	\$	-	\$	-	\$	10,203	
Multiline business lines		\$51.00	\$	0	\$	123,525	\$	-	\$	-	\$	-	\$	123,525	
Public lines		\$51.00	\$	0	\$	4,012	\$	-	\$	-	\$	-	\$	4,012	
Support cost if all lines supported			\$	703,989	\$	1,259,401	\$	-	\$	-	\$	-	\$	1,963,391	
Total annual support for specified lines				\$	678,441	\$	1,093,259	\$	-	\$	-	\$	-	\$	1,771,700
@75% State allocation				\$	508,831	\$	819,944	\$	-	\$	-	\$	-	\$	1,328,775
@Implied 25% Federal allocation				\$	169,610	\$	273,315	\$	-	\$	-	\$	-	\$	442,925

TOTAL FUND ANALYSIS														
25% Federal allocation from Federal Fund Analysis	\$	169,610	\$	273,315	\$	-	\$	-	\$	-	\$	-	\$	442,925
75% State allocation from State Fund Analysis	\$	508,831	\$	819,944	\$	-	\$	-	\$	-	\$	-	\$	1,328,775
Total Federal + State fund	\$	678,441	\$	1,093,259	\$	-	\$	-	\$	-	\$	-	\$	1,771,700

Module release date: 11/4/1997

COST OF NETWORK ELEMENTS

Missouri

Craw - Kan Telephone Cooperative Inc - Missouri

Loop elements	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
NID										
Annual Cost	\$ 3,540	\$ 11,833	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,373
Unit Cost/month	0.59	0.54	-	-	-	-	-	-	-	0.55
Loop Distribution (DLC)										
Annual Cost	\$ 411,626	\$ 946,208	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,357,834
Unit Cost/month	68.76	43.15	-	-	-	-	-	-	-	48.65
Loop Distribution (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Distribution (all)										
Annual Cost	\$ 411,626	\$ 946,208	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,357,834
Unit Cost/month	68.76	43.15	-	-	-	-	-	-	-	48.65
Loop Concentration (DLC)										
Annual Cost	\$ 92,383	\$ 179,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 271,509
Unit Cost/month	15.43	8.17	-	-	-	-	-	-	-	9.73
Loop Concentration (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Concentration (all)										
Annual Cost	\$ 92,383	\$ 179,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 271,509
Unit Cost/month	15.43	8.17	-	-	-	-	-	-	-	9.73
Loop Feeder (DLC)										
Annual Cost	\$ 235,023	\$ 374,728	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 609,752
Unit Cost/month	39.26	17.09	-	-	-	-	-	-	-	21.84
Loop Feeder (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Feeder (all)										
Annual Cost	\$ 235,023	\$ 374,728	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 609,752
Unit Cost/month	39.26	17.09	-	-	-	-	-	-	-	21.84
Total Loop (DLC)										
Annual Cost	\$ 742,571	\$ 1,511,896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,254,467
Unit Cost/month	124.04	68.95	-	-	-	-	-	-	-	80.77
Total Loop (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Total Loop (all)										
Annual Cost	\$ 742,571	\$ 1,511,896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,254,467
Unit Cost/month	124.04	68.95	-	-	-	-	-	-	-	80.77
Total lines	499	1,827	-	-	-	-	-	-	-	2,326
Total lines served by DLC	499	1,827	-	-	-	-	-	-	-	2,326

	Annual Cost	Units	Unit Cost
End office switching	\$ 545,392		
Line Port	163,618	2,284 switched lines	\$ 5.97 per line/month
Non-Line Port	381,775	26,055,608 actual minutes	\$ 0.01465 per actual minute (for rate per DEM, see "Cost detail" sheet)
Signaling network elements	\$ 22,721		
Links	17,608	12 links	\$ 124.05 per link per month
STP	3,348	14,754,555 TCAP+ISUP msgs	\$ 0.00023 per signaling message
SCP	1,765	1,496,800 TCAP queries	\$ 0.00118 per query
Transport network elements			
<i>Dedicated</i>			
Sw+Sp Transport	\$ 99,855	90 trunks	\$ 92.33 per DS-0 equivalent per month
Switched	53,252	48 trunks	\$ 0.00919 per minute
Special	46,604	42 trunks	
Transmission Terminal	30,874	90 trunks	\$ 28.55 per DS-0 equivalent per month
			\$ 0.00284 per minute
			\$ 0.01203 total per minute
<i>Common</i>			
Transport	\$ 267,539	11,291,890 minutes	\$ 0.01037 per minute per leg (orig or term)
Transmission Terminal	95,666	11,291,890 minutes	\$ 0.00371 per minute
			\$ 0.01408 total per minute
<i>Direct</i>			
Transport	\$ 102,028	1,516,295 minutes	\$ 0.06729 per minute
Transmission Terminal	35,580	1,516,295 minutes	\$ 0.02347 per minute
			\$ 0.09075 total per minute
Tandem switch	\$ 3,189	9,852,119 minutes	\$ 0.00032 per minute
Operator systems	\$ 51,965		
Public Telephones	\$ 3,008		
Total (w/ Public)	\$ 3,512,285		
Total cost of switched network elements (w/o Public)	\$ 124.32	per line/month	

		interconnected at		
		end office	tandem	wtd average
Local interconnection				
EO switching	\$	0.01465	\$ 0.01465	
ISUP	\$	0.00179	\$ 0.00179	
Common Transport	\$	-	\$ 0.01408	
Tandem Switching	\$	-	\$ 0.00032	
TOTAL	\$	0.01644	\$ 0.03085	n/a

IXC switched access				
EO switching	\$	0.01465	\$ 0.01465	
ISUP	\$	0.00179	\$ 0.00179	
Dedicated Transport	\$	0.01203	\$ 0.01203	
Common Transport	\$	-	\$ 0.01408	
Tandem Switching	\$	-	\$ 0.00032	
TOTAL	\$	0.02848	\$ 0.04288	\$ 0.04288

Signaling detail				
cost per 800 call attempt (TCAP)	\$	0.0028		
ISUP cost/transaction	\$	0.00933		
ISUP cost/completion		0.0133		
IXC switched access MOU/comp		7.45		
ISUP cost/min	\$	0.001789		
D link per month	\$	-		

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

Switch non-line port annual cost 381,775
Total DEMs 37,696,000
Cost per DEM \$ 0.01013

Dedicated Transport Costs Per Trunk				
DS-0 per month				
Transport per month	\$	92.33		
Terminal per month *	\$	353.98		
TOTAL	\$	446.30		

DS-1 per month				
Transport per month	\$	2,215.85		
Terminal per month	\$	685.11		
TOTAL	\$	2,900.96		

DS-3 per month				
Transport per month	\$	62,043.71		
Terminal per month	\$	1,937.69		
TOTAL	\$	63,981.40		

Trunk Port Costs				
per trunk port (DS-0 equivalent) per month	\$	2.74		
per trunk port minute	\$	0.000273		

total EO usage per minute	\$	0.014652		
trk port/min	\$	0.000273		
other	\$	0.014379		

	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)	30.4%	35.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.5%
calculated distribution fill (non-DLC)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	#DIV/0!
weighted average										#DIV/0!

Per DS0 Transport Calculations				
Entrance Facility Investment per Line	\$	-		
Total Dedicated Terminal Investment		111,366		
Total Lines		2,326		
Total Dedicated Terminal Investment per line	\$	48		
Entrance Facility percent to total	\$	-		
Terminal Investment per DS-0	\$	1,236		
Transport Investment per DS-0	\$	4,332		

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	\$ 2,243	\$ 7,567	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,810
Network Expenses	\$ 481	\$ 1,531	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,012
Direct expense	\$ 2,723	\$ 9,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,822
Investment	\$ 14,015	\$ 47,293	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,308
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 798	\$ 2,668	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,466
Total	\$ 3,522	\$ 11,766	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,288
with carrier-to-carrier	\$ 3,524	\$ 11,782	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,306
Distribution (DLC)										
Annual Capital Cost	\$ 254,558	\$ 584,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,160
Network Expenses	\$ 62,148	\$ 142,915	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	205,064
Direct expense	\$ 316,706	\$ 727,518	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,044,223
Investment	\$ 1,577,219	\$ 3,627,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,204,334
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 92,853	\$ 213,297	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	306,150
Total	\$ 409,559	\$ 940,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,350,373
with carrier-to-carrier	\$ 409,841	\$ 942,106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,351,947
Distribution (non-DLC)										
Annual Capital Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Direct expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
with carrier-to-carrier	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Distribution (all)										
Annual Capital Cost	\$ 254,558	\$ 584,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,160
Network Expenses	\$ 62,148	\$ 142,915	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	205,064
Direct expense	\$ 316,706	\$ 727,518	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,044,223
Investment	\$ 1,577,219	\$ 3,627,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,204,334
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 92,853	\$ 213,297	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	306,150
Total	\$ 409,559	\$ 940,814	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,350,373
with carrier-to-carrier	\$ 409,841	\$ 942,106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,351,947
Concentrator (DLC)										
Annual Capital Cost	\$ 65,873	\$ 127,612	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	193,485
Network Expenses	\$ 5,206	\$ 10,114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,320
Direct expense	\$ 71,079	\$ 137,726	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	208,805
Investment	\$ 338,423	\$ 656,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	994,740
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 20,839	\$ 40,379	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,218
Total	\$ 91,919	\$ 178,105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	270,024
with carrier-to-carrier	\$ 91,982	\$ 178,349	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	270,331
Concentrator (non-DLC)										
Annual Capital Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Direct expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
with carrier-to-carrier	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Concentrator (all)										
Annual Capital Cost	\$ 65,873	\$ 127,612	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	193,485
Network Expenses	\$ 5,206	\$ 10,114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,320
Direct expense	\$ 71,079	\$ 137,726	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	208,805
Investment	\$ 338,423	\$ 656,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	994,740
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 20,839	\$ 40,379	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,218
Total	\$ 91,919	\$ 178,105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	270,024
with carrier-to-carrier	\$ 91,982	\$ 178,349	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	270,331
Feeder (DLC)										
Annual Capital Cost	\$ 144,144	\$ 229,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	373,933
Network Expenses	\$ 36,883	\$ 58,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95,015
Direct expense	\$ 180,827	\$ 288,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	468,947
Investment	\$ 922,913	\$ 1,469,548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,392,461
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 53,016	\$ 84,472	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	137,488
Total	\$ 233,843	\$ 372,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	606,436
with carrier-to-carrier	\$ 234,004	\$ 373,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	607,108
Feeder (non-DLC)										
Annual Capital Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Direct expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
with carrier-to-carrier	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Feeder (all)										
Annual Capital Cost	\$ 144,144	\$ 229,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	373,933
Network Expenses	\$ 36,683	\$ 58,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95,015
Direct expense	\$ 180,827	\$ 288,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	468,947
Investment	\$ 922,913	\$ 1,469,548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,392,461
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 53,016	\$ 84,472	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	137,488
Total	\$ 233,843	\$ 372,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	606,436
with carrier-to-carrier	\$ 234,004	\$ 373,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	607,108
End Office Switching										
Annual Capital Cost	\$ 78,183	\$ 229,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	307,359
Network Expenses	\$ 26,596	\$ 76,979	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	103,575
Direct expense	\$ 104,779	\$ 306,155	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	410,934
Investment	\$ 486,946	\$ 1,426,247	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,913,194
Support expenses	\$ 17,994	\$ 62,368	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	80,362
Subtotal, with misc spt	\$ 122,774	\$ 368,523	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	491,296
Total, with var overhead	\$ 135,542	\$ 408,849	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	542,391
with carrier-to-carrier	\$ 135,635	\$ 407,393	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	543,028
Signaling										
Annual Capital Cost	\$ 5,720	\$ 7,946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,666
Network Expenses	\$ 1,433	\$ 2,096	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,529
Direct expense	\$ 7,153	\$ 10,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	17,196
Investment	\$ 35,715	\$ 49,539	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	85,254
Support expenses	\$ 1,229	\$ 2,046	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,274
Subtotal, with misc spt	\$ 8,382	\$ 12,088	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20,470
Total, with var overhead	\$ 9,254	\$ 13,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	22,599
with carrier-to-carrier	\$ 9,260	\$ 13,363	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	22,623
Dedicated Transport										
Annual Capital Cost	\$ 43,386	\$ 17,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	60,743
Network Expenses	\$ 11,036	\$ 4,417	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,453
Direct expense	\$ 54,423	\$ 21,773	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	76,196
Investment	\$ 278,866	\$ 111,552	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	390,417
Support expenses	\$ 9,346	\$ 4,436	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,782
Subtotal, with misc spt	\$ 63,769	\$ 26,209	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	89,978
Total, with var overhead	\$ 70,401	\$ 28,935	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	99,335
with carrier-to-carrier	\$ 70,449	\$ 28,973	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	99,423
Dedicated Transport Transmission										
Annual Capital Cost	\$ 12,172	\$ 9,582	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	21,754
Network Expenses	\$ 953	\$ 750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,704
Direct expense	\$ 13,126	\$ 10,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,458
Investment	\$ 62,314	\$ 49,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	111,366
Support expenses	\$ 2,254	\$ 2,105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,359
Subtotal, with misc spt	\$ 15,380	\$ 12,437	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	27,817
Total, with var overhead	\$ 16,980	\$ 13,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	30,710
with carrier-to-carrier	\$ 16,991	\$ 13,749	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	30,740
Direct Transport										
Annual Capital Cost	\$ 30,885	\$ 30,817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,702
Network Expenses	\$ 7,856	\$ 7,837	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,693
Direct expense	\$ 38,741	\$ 38,654	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	77,395
Investment	\$ 198,405	\$ 197,883	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	396,287
Support expenses	\$ 6,653	\$ 7,874	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	14,527
Subtotal, with misc spt	\$ 45,394	\$ 46,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	91,922
Total, with var overhead	\$ 50,115	\$ 51,367	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	101,482
with carrier-to-carrier	\$ 50,150	\$ 51,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	101,585
Direct Transport Transmission										
Annual Capital Cost	\$ 8,693	\$ 16,232	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	24,925
Network Expenses	\$ 681	\$ 1,271	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,952
Direct expense	\$ 9,374	\$ 17,504	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,877
Investment	\$ 44,500	\$ 83,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	127,597
Support expenses	\$ 1,610	\$ 3,566	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,176
Subtotal, with misc spt	\$ 10,983	\$ 21,070	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	32,053
Total, with var overhead	\$ 12,126	\$ 23,261	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	35,386
with carrier-to-carrier	\$ 12,134	\$ 23,292	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	35,426
Common Transport										
Annual Capital Cost	\$ 82,768	\$ 79,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	161,844
Network Expenses	\$ 21,052	\$ 20,111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,163
Direct expense	\$ 103,820	\$ 99,187	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	203,007
Investment	\$ 531,757	\$ 507,797	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,039,555
Support expenses	\$ 17,830	\$ 20,206	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	38,035
Subtotal, with misc spt	\$ 121,649	\$ 119,392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	241,042
Total, with var overhead	\$ 134,301	\$ 131,809	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	266,110
with carrier-to-carrier	\$ 134,394	\$ 131,985	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	266,379

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	\$ 23,287	\$ 43,729	- \$	- \$	- \$	- \$	- \$	- \$	- \$	67,015
Network Expenses	\$ 1,824	\$ 3,425	- \$	- \$	- \$	- \$	- \$	- \$	- \$	5,249
Direct expense	\$ 25,111	\$ 47,154	- \$	- \$	- \$	- \$	- \$	- \$	- \$	72,264
Investment	\$ 119,210	\$ 223,859	- \$	- \$	- \$	- \$	- \$	- \$	- \$	343,069
Support expenses	\$ 4,312	\$ 9,606	- \$	- \$	- \$	- \$	- \$	- \$	- \$	13,918
Subtotal, with misc spt	\$ 29,423	\$ 56,760	- \$	- \$	- \$	- \$	- \$	- \$	- \$	86,183
Total, with var overhead	\$ 32,483	\$ 62,663	- \$	- \$	- \$	- \$	- \$	- \$	- \$	95,146
with carrier-to-carrier	\$ 32,505	\$ 62,746	- \$	- \$	- \$	- \$	- \$	- \$	- \$	95,252
Tandem Switching										
Annual Capital Cost	\$ 342	\$ 1,223	- \$	- \$	- \$	- \$	- \$	- \$	- \$	1,565
Network Expenses	\$ 183	\$ 653	- \$	- \$	- \$	- \$	- \$	- \$	- \$	836
Direct expense	\$ 524	\$ 1,876	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,401
Investment	\$ 2,195	\$ 7,854	- \$	- \$	- \$	- \$	- \$	- \$	- \$	10,050
Support expenses	\$ 90	\$ 382	- \$	- \$	- \$	- \$	- \$	- \$	- \$	472
Subtotal, with misc spt	\$ 614	\$ 2,258	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,873
Total, with var overhead	\$ 678	\$ 2,493	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,172
with carrier-to-carrier	\$ 679	\$ 2,497	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,175
Operator Systems										
Annual Capital Cost	\$ 13,174	\$ 13,986	- \$	- \$	- \$	- \$	- \$	- \$	- \$	27,161
Network Expenses	\$ 4,623	\$ 8,236	- \$	- \$	- \$	- \$	- \$	- \$	- \$	12,859
Direct expense	\$ 17,797	\$ 22,222	- \$	- \$	- \$	- \$	- \$	- \$	- \$	40,019
Investment	\$ 84,723	\$ 88,894	- \$	- \$	- \$	- \$	- \$	- \$	- \$	173,617
Support expenses	\$ 2,857	\$ 3,939	- \$	- \$	- \$	- \$	- \$	- \$	- \$	6,796
Subtotal, with misc spt	\$ 20,654	\$ 26,161	- \$	- \$	- \$	- \$	- \$	- \$	- \$	46,815
Total, with var overhead	\$ 22,802	\$ 28,882	- \$	- \$	- \$	- \$	- \$	- \$	- \$	51,684
with carrier-to-carrier	\$ 22,818	\$ 28,921	- \$	- \$	- \$	- \$	- \$	- \$	- \$	51,739
Public Telephone										
Annual Capital Cost	\$ -	\$ 1,204	- \$	- \$	- \$	- \$	- \$	- \$	- \$	1,204
Network Expenses	\$ -	\$ 1,108	- \$	- \$	- \$	- \$	- \$	- \$	- \$	1,108
Direct expense	\$ -	\$ 2,311	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,311
Investment	\$ -	\$ 5,887	- \$	- \$	- \$	- \$	- \$	- \$	- \$	5,887
Support expenses	\$ -	\$ 410	- \$	- \$	- \$	- \$	- \$	- \$	- \$	410
Subtotal, with misc spt	\$ -	\$ 2,721	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,721
Total, with var overhead	\$ -	\$ 3,004	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,004
with carrier-to-carrier	\$ -	\$ 3,008	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,008
Totals										
Annual Capital Cost	\$ 765,428	\$ 1,399,896	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,165,324
Network Expenses	\$ 180,756	\$ 339,776	- \$	- \$	- \$	- \$	- \$	- \$	- \$	520,532
Total	\$ 946,184	\$ 1,739,672	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,685,856
Investment	\$ 4,697,201	\$ 8,551,936	- \$	- \$	- \$	- \$	- \$	- \$	- \$	13,249,137
Supporting Network Expenses										
Capital Cost - Gent Support	\$ 39,394	\$ 71,723	- \$	- \$	- \$	- \$	- \$	- \$	- \$	111,118
Network Operations	\$ 15,519	\$ 56,837	- \$	- \$	- \$	- \$	- \$	- \$	- \$	72,356
Network Support	\$ 2,718	\$ 4,997	- \$	- \$	- \$	- \$	- \$	- \$	- \$	7,714
Other Taxes	\$ 54,905	\$ 102,401	- \$	- \$	- \$	- \$	- \$	- \$	- \$	157,306
Misc Expenses	\$ 39,372	\$ 72,390	- \$	- \$	- \$	- \$	- \$	- \$	- \$	111,762
Subtotal	\$ 151,908	\$ 308,348	- \$	- \$	- \$	- \$	- \$	- \$	- \$	460,256
Carrier-carrier customer svc	\$ 843	\$ 3,088	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,931
Interoffice/Switching Net Ops	\$ 3,994	\$ 14,629	- \$	- \$	- \$	- \$	- \$	- \$	- \$	18,623
Interoffice/Sw Exp	\$ 357,051	\$ 552,677	- \$	- \$	- \$	- \$	- \$	- \$	- \$	909,727
Total Network Costs										
	\$ 1,102,086	\$ 2,062,649	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,164,735
Other costs										
Other Taxes	\$ 54,905	\$ 102,401	- \$	- \$	- \$	- \$	- \$	- \$	- \$	157,306
Monthly Cost Factors										
Loop	0.02208	0.02211	-	-	-	-	-	-	-	0.02216
Port	0.00623	0.00780	-	-	-	-	-	-	-	0.00725
Switching	0.00826	0.01009	-	-	-	-	-	-	-	0.00963
Signaling	0.00296	0.00763	-	-	-	-	-	-	-	0.00567
Transport	0.00208	0.00778	-	-	-	-	-	-	-	0.00486
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										
	99.9312%	99.8666%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	99.8985%

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	\$ 3,087	0%	100%	\$ -	\$ 3,087
Furniture - Expenses	\$ 2,370	0%	100%	\$ -	\$ 2,370
Office Equipment - Capital Costs	\$ 8,812	0%	100%	\$ -	\$ 8,812
Office Equipment - Expenses	\$ 5,021	0%	100%	\$ -	\$ 5,021
General Purpose Computer - Capital Costs	\$ 18,413	0%	100%	\$ -	\$ 18,413
General Purpose Computer - Expenses	\$ 48,542	0%	100%	\$ -	\$ 48,542
Motor Vehicles - Capital Costs	\$ 11,111	0%	100%	\$ -	\$ 11,111
Motor Vehicles - Expenses	\$ 3,882	0%	100%	\$ -	\$ 3,882
Buildings - Capital Costs	\$ 22,208	0%	100%	\$ -	\$ 22,208
Buildings - Expenses	\$ 16,213	0%	100%	\$ -	\$ 16,213
Garage Work Eqpt. - Capital Costs	\$ 325	0%	100%	\$ -	\$ 325
Garage Work Eqpt. - Expenses	\$ 113	0%	100%	\$ -	\$ 113
Other Work Eqpt. - Capital Costs	\$ 7,774	0%	100%	\$ -	\$ 7,774
Other Work Eqpt. - Expenses	\$ 985	0%	100%	\$ -	\$ 985
Total General Support	\$ 148,855			\$ -	\$ 148,855
Network Operations	\$ 46,708	0%	100%	\$ -	\$ 46,708
Other Taxes	\$ 101,545	0%	100%	\$ -	\$ 101,545
Variable Overhead	\$ 211,214	0%	100%	\$ -	\$ 211,214
Totals	\$ 297,109			\$ -	\$ 508,323

	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	\$ 571,336	\$ 1,162,462	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,733,798
Non-Loop-related direct costs	\$ 374,848	\$ 577,210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 952,058
Total	\$ 946,184	\$ 1,739,672	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,685,856
Loop Fraction	60.38%	66.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	64.55%
Network Operations	\$ 15,519	\$ 56,837	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,356

	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs
General Support - Totals			
Furniture - Capital Costs	\$ 4,782	\$ 3,087	\$ 1,695
Furniture - Expenses	\$ 3,671	\$ 2,370	\$ 1,301
Office Equipment - Capital Costs	\$ 13,650	\$ 8,812	\$ 4,839
Office Equipment - Expenses	\$ 7,778	\$ 5,021	\$ 2,757
General Purpose Computer - Capital Costs	\$ 28,524	\$ 18,413	\$ 10,111
General Purpose Computer - Expenses	\$ 75,198	\$ 48,542	\$ 26,655
Motor Vehicles - Capital Costs	\$ 17,212	\$ 11,111	\$ 6,101

Exp Assignment

Motor Vehicles - Expenses	\$ 6,013	\$ 3,882	\$ 2,132	
Buildings - Capital Costs	\$ 34,403	\$ 22,208	\$ 12,195	
Buildings - Expenses	\$ 25,115	\$ 16,213	\$ 8,903	
Garage Work Eqpt. - Capital Costs	\$ 504	\$ 325	\$ 179	
Garage Work Eqpt. - Expenses	\$ 175	\$ 113	\$ 62	
Other Work Eqpt. - Capital Costs	\$ 12,043	\$ 7,774	\$ 4,269	
Other Work Eqpt. - Expenses	\$ 1,525	\$ 985	\$ 541	
Total General Support	\$ 230,594	\$ 148,855	\$ 81,739	
Network Operations	\$ 72,356	\$ 46,708	\$ 25,648	
Other Taxes Calculation				
Total Direct Costs	\$ 2,685,856	\$ 1,733,798	\$ 952,058	\$ 2,685,856
Total Network Operations	\$ 72,356	\$ 46,708	\$ 25,648	\$ 72,356
Total General Support	\$ 230,594	\$ 148,855	\$ 81,739	\$ 276,782
Total	\$ 2,988,806	\$ 1,929,361	\$ 1,059,445	
Other Taxes	\$ 157,306	\$ 101,545	\$ 55,760	\$ 434,088
Total Expenses and Other Taxes	\$ 3,146,112	\$ 2,030,906	\$ 1,115,205	
Variable Overhead Calculation				
Variable Overhead	\$ 327,196	\$ 211,214	\$ 115,981	
Total Cost with Variable Overhead	3,473,307	2,242,121	1,231,187	

UNE Expense Assignment

Totals

NID

per line cost \$ -
per direct cost \$ 3,466
total \$ 3,466

Distribution (DLC)

per line cost \$ -
per direct cost \$ 306,150
total \$ 306,150

Distribution (non-DLC)

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

Concentrator (DLC)

per line cost \$ -
per direct cost \$ 61,218
total \$ 61,218

Concentrator (non-DLC)

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

Feeder (DLC)

per line cost \$ -
per direct cost \$ 137,488
total \$ 137,488

Feeder (non-DLC)

Exp Assignment

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

End Office Switching	\$	531,414
Signaling	\$	22,237
Dedicated Transport	\$	98,535
Dedicated Transport Transmission	\$	30,336
Direct Transport	\$	100,086
Direct Transport Transmission	\$	34,757
Common Transport	\$	262,525
Common Transport Transmission	\$	93,451
Tandem Switching	\$	3,104
Operator Systems	\$	51,752
Public Telephone	\$	2,989

COST SUMMARY

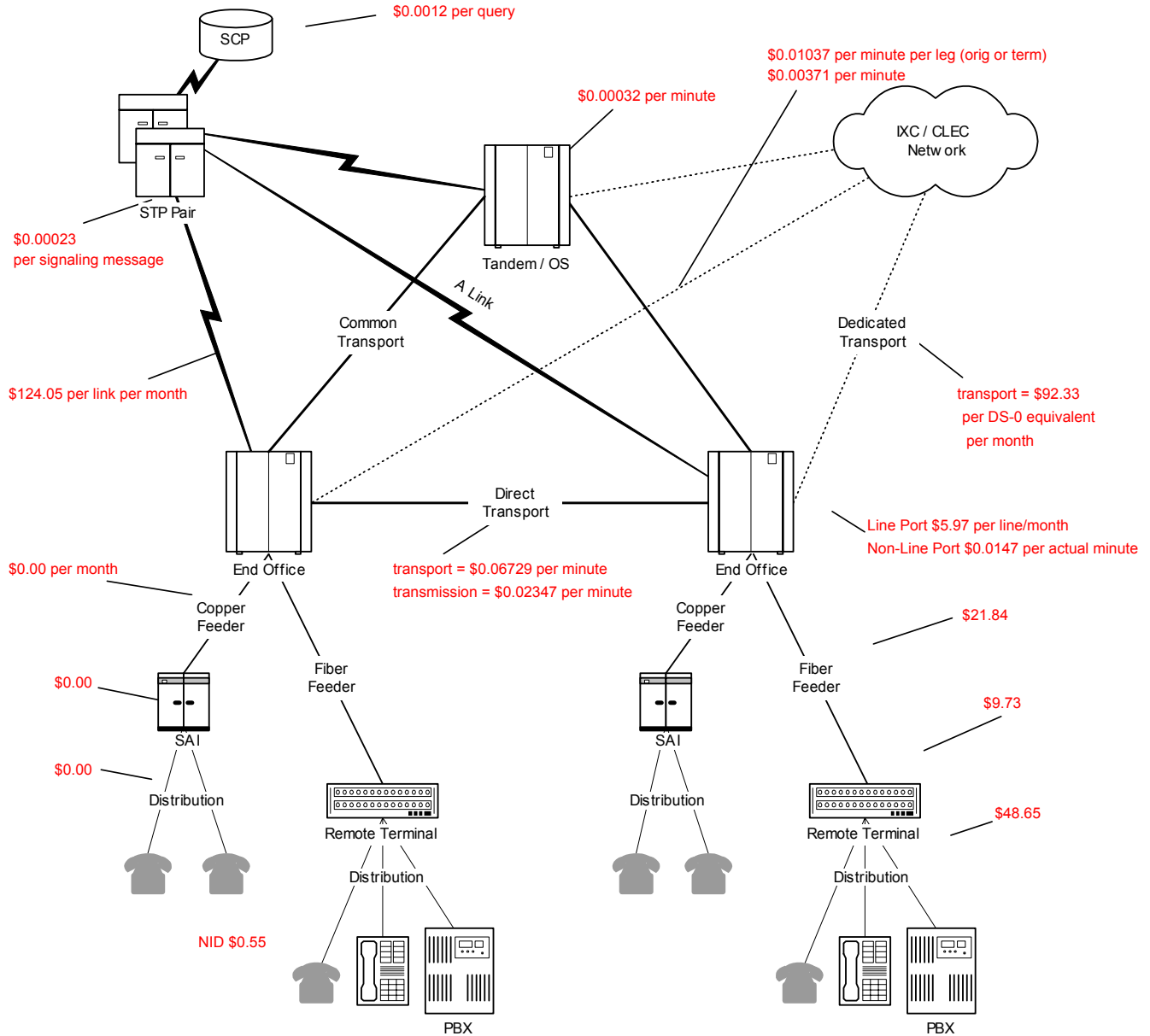
Missouri Craw - Kan Telephone Cooperative Inc - Missouri

			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	\$ 61,308	0.5%	\$ 9,810	\$ 2,012	\$ 11,822	\$ 3,466	\$ 15,288	\$ 15,306
<i>Distribution (DLC)</i>	5,204,334	39.3%	839,160	205,064	1,044,223	306,150	1,350,373	1,351,947
<i>Distribution (non-DLC)</i>	-	0.0%	-	-	-	-	-	-
Distribution (all)	5,204,334	39.3%	839,160	205,064	1,044,223	306,150	1,350,373	1,351,947
<i>Concentrator (DLC)</i>	994,740	7.5%	193,485	15,320	208,805	61,218	270,024	270,331
<i>Concentrator (non-DLC)</i>	-	0.0%	-	-	-	-	-	-
Concentrator (all)	994,740	7.5%	193,485	15,320	208,805	61,218	270,024	270,331
<i>Feeder (DLC)</i>	2,392,461	18.1%	373,933	95,015	468,947	137,488	606,436	607,108
<i>Feeder (non-DLC)</i>	-	0.0%	-	-	-	-	-	-
Feeder (all)	2,392,461	18.1%	373,933	95,015	468,947	137,488	606,436	607,108
End Office Switching	1,913,194	14.4%	307,359	103,575	410,934	80,362	491,296	543,028
Signaling	85,254	0.6%	13,666	3,529	17,196	3,274	20,470	22,623
Dedicated Transport	390,417	2.9%	60,743	15,453	76,196	13,782	89,978	99,423
Dedicated Transport Transmission	111,366	0.8%	21,754	1,704	23,458	4,359	27,817	30,740
Direct Transport	396,287	3.0%	61,702	15,693	77,395	14,527	91,922	101,585
Direct Transport Transmission	127,597	1.0%	24,925	1,952	26,877	5,176	32,053	35,426
Common Transport	1,039,555	7.8%	161,844	41,163	203,007	38,035	241,042	266,379
Common Transport Transmission	343,069	2.6%	67,015	5,249	72,264	13,918	86,183	95,252
Tandem Switching	10,050	0.1%	1,565	836	2,401	472	2,873	3,175
Operator Systems	173,617	1.3%	27,161	12,859	40,019	6,796	46,815	51,739
Public Telephone	5,887	0.0%	1,204	1,108	2,311	410	2,721	3,008
Total Network Cost								
Total	\$ 13,249,137	100%	\$ 2,165,324	\$ 520,532	\$ 2,685,856	\$ 689,434	\$ 3,375,290	\$ 3,497,071

* Post sharing

Unbundled Network Elements

Missouri / Craw - Kan Telephone Cooperative Inc - Missouri



USOA Detail Breakdown of HAI Model Costs

USOA	INVESTMENT DESCRIPTION	Cost \$(000)
Telecommunications Plant in Service		
2111	LAND	30
2112	MOTOR VEHICLES	90
2113	AIRCRAFT	
2114	SPECIAL PURPOSE VEHICLES	
2115	GARAGE WORK EQUIPMENT	3
2116	OTHER WORK EQUIPMENT	70
2121	BUILDINGS	462
2122	FURNITURE	30
2123.1	OFFICE SUPPORT EQUIPMENT	77
2123.2	COMPANY COMMUNICATIONS EQUIPMENT	
2124	GENERAL PURPOSE COMPUTERS	118
2110	TOTAL LAND & SUPPORT ASSETS	879
2212	DIGITAL ELECTRONIC SWITCHING	1,681
2220	OPERATOR SYSTEMS	5
2232	CIRCUIT EQUIPMENT	1,592
2351	PUBLIC TEL TERMINAL EQUIPMENT	6
2411	POLES	243
2421.1	AERIAL CABLE - METALLIC	112
2421.2	AERIAL CABLE - NonMETALLIC	135
2422.1	UNDERGROUND CABLE - METALLIC	0
2422.2	UNDERGROUND CABLE - NonMETALLIC	0
2423.1	BURIED CABLE - METALLIC	5,009
2423.2	BURIED CABLE - NonMETALLIC	4,204
2426.1	INTRABUILDING NETWORK CABLE - MET.	
2426.2	INTRABUILDING NETWORK CABLE - NonMET.	
2441	CONDUIT SYSTEMS	0
2410	TOTAL CABLE & WIRE FACILITIES	9,701
	Total TPIS (before amortizable assets)*	13,864

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

**Craw - Kan Telephone Cooperative Inc - Missouri
Missouri**

USOA	EXPENSE DESCRIPTION	Cost \$(000)
Plant Specific Expenses		
6112	MOTOR VEHICLES	6
6113	AIRCRAFT	2
6114	SPECIAL PURPOSE VEHICLES	0
6115	GARAGE WORK EQUIPMENT	0
6116	OTHER WORK EQUIPMENT	2
6110	NETWORK SUPPORT	10
6121	LAND & BUILDINGS	56
6122	FURNITURE	4
6123	OFFICE EQUIPMENT	9
6124	GENERAL PURPOSE COMPUTERS	90
6120	LAND & SUPPORT ASSETS	159
6212	DIGITAL ELECTRONIC SWITCHING	80
6220	OPERATOR SYSTEMS	6
6232	CIRCUIT EQUIPMENT	25
6351	PUBLIC TEL TERMINAL EQUIPMENT	1
6411	POLES	10
6421	AERIAL CABLE	16
6422	UNDERGROUND CABLE	0
6423	BURIED CABLE	357
6426	INTRABUILDING NETWORK CABLE	
6441	CONDUIT SYSTEMS	0
6410	TOTAL CABLE & WIRE FACILITIES	382
	Total Plant Specific Expenses	664
Plant Nonspecific Operations		
	TOTAL NETWORK OPERATIONS SUPPORT	91
6561	DEPRECIATION TPIS	818
6623	CUSTOMER SERVICES	4
	Total Plant Nonspecific Operations	913
	TOTAL CORPORATE OPERATIONS	329
	TOTAL OPERATING EXPENSES	1,906
7240	OPERATING OTHER TAXES	157
	TOTAL EXPENSES & OPERATING TAXES	2,064

USOA Depreciation Calculations

	<u>Depl. life</u>	<u>DepFact</u>	<u>Dep Exp</u>
2111			
2112	10.45	0.09589	9
2113			
2114			
2115	9.97	0.10031	0
2116	13.92	0.07189	5
2121	48.73	0.02052	9
2122	18.36	0.05449	2
2123.1	12.44	0.08052	6
2123.2	7.99	0.12517	-
2124	6.61	0.15223	18
2110			
2212	17.17	0.05827	98
2220	9.25	0.10829	1
2232	9.90	0.10108	161
2351	8.98	0.11145	1
2411	8.38	0.11972	29
2421.1	13.61	0.07355	8
2421.2	18.92	0.05286	7
2422.1	17.88	0.05596	-
2422.2	20.14	0.04966	-
2423.1	18.36	0.05450	273
2423.2	21.97	0.04551	191
2426.1	13.57	0.07377	-
2426.2	21.37	0.04681	-
2441	46.15	0.02167	-
<i>Total Depreciation</i>			<i>818</i>

Network Element Disaggregations

Investment Disaggregations:

<i>Terminal, Drop, and NID</i>	<i>477,989</i>
Aerial-m portion	10,414
Buried-m portion	467,575

<i>OS Trks + Signaling links</i>	<i>232,239</i>
Circuit Eqpt. portion	38,707
Pole portion	3,159
Aerial-nm portion	5,453
Underground-nm portion	-
Buried-nm portion	184,921
Conduit portion	-

<i>SAI</i>	<i>23,450</i>
Aerial-m portion	-
Aerial-nm portion	774
Underground-m portion	-
Underground-nm portion	-
Buried-m portion	-
Buried-nm portion	22,676

Expense Disaggregations:

<i>Terminal, Drop, and NID</i>	<i>18,163</i>
Aerial portion	875
Buried portion	17,288

<i>OS Trks + Signaling links</i>	<i>9,002</i>
Circuit Eqpt. portion	1,500
Pole portion	128
Aerial-nm portion	336
Underground-nm portion	-
Buried-nm portion	7,038
Conduit portion	-

<i>SAI</i>	<i>460</i>
Aerial portion	15
Underground portion	-
Buried portion	445

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	\$ 10,630	\$ 19,354	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	29,985
office equipment	27,169	49,466	-	-	-	-	-	-	-	76,635
general purpose computers	41,781	76,068	-	-	-	-	-	-	-	117,848
motor vehicles	31,968	58,203	-	-	-	-	-	-	-	90,171
buildings	80,746	147,010	-	-	-	-	-	-	-	227,756
garage work equipment	917	1,670	-	-	-	-	-	-	-	2,588
other work equipment	24,912	45,356	-	-	-	-	-	-	-	70,268
										-
TOTAL	\$ 218,124	\$ 397,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	615,250
Levelized Cost of Capital										
furniture	\$ 1,695	\$ 3,086	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,782
office equipment	4,839	8,811	-	-	-	-	-	-	-	13,650
general purpose computers	10,112	18,411	-	-	-	-	-	-	-	28,524
motor vehicles	6,102	11,110	-	-	-	-	-	-	-	17,212
buildings	12,197	22,206	-	-	-	-	-	-	-	34,403
garage work equipment	179	325	-	-	-	-	-	-	-	504
other work equipment	4,270	7,774	-	-	-	-	-	-	-	12,043
TOTAL	\$ 39,394	\$ 71,723	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	111,118

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	\$ 593,984	\$ 1,404,608	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,998,592
aerial cable	30,060	71,083	-	-	-	-	-	-	-	101,143
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	810,484	1,731,925	-	-	-	-	-	-	-	2,542,409
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	49,206	96,302	-	-	-	-	-	-	-	145,508
terminal	41,883	153,391	-	-	-	-	-	-	-	195,273
drop	51,603	169,805	-	-	-	-	-	-	-	221,408
TOTAL	\$ 1,577,219	\$ 3,627,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,204,334
	30.31%	69.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 94,727	\$ 224,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	318,730
aerial cable	5,190	12,274	-	-	-	-	-	-	-	17,464
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	129,254	276,202	-	-	-	-	-	-	-	405,456
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	10,429	20,410	-	-	-	-	-	-	-	30,839
terminal	6,701	24,543	-	-	-	-	-	-	-	31,245
drop	8,257	27,170	-	-	-	-	-	-	-	35,426
TOTAL	\$ 254,558	\$ 584,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,160
Network Expenses										
buried cable	23,093	54,609	-	-	-	-	-	-	-	77,702
aerial cable	1,890	4,470	-	-	-	-	-	-	-	6,361
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	31,510	67,334	-	-	-	-	-	-	-	98,845
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	2,031	3,975	-	-	-	-	-	-	-	6,006
terminal	1,623	5,945	-	-	-	-	-	-	-	7,569
drop	2,000	6,582	-	-	-	-	-	-	-	8,582
TOTAL	\$ 62,148	\$ 142,915	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	205,064
Summary										
Cost of Capital	\$ 254,558	\$ 584,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,160
Network Expense	62,148	142,915	-	-	-	-	-	-	-	205,064
TOTAL	\$ 316,706	\$ 727,518	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,044,223
Copper Feeder										
Distribution Investment										
buried cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
aerial cable	-	-	-	-	-	-	-	-	-	-
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
terminal	-	-	-	-	-	-	-	-	-	-
drop	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Levelized Cost of Capital										
buried cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
aerial cable	-	-	-	-	-	-	-	-	-	-
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
terminal	-	-	-	-	-	-	-	-	-	-
drop	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses										
buried cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
aerial cable	-	-	-	-	-	-	-	-	-	-

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
terminal	-	-	-	-	-	-	-	-	-	-
drop	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Summary										
Cost of Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expense	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-

	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	\$ 593,984	\$ 1,404,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,998,592
aerial cable	\$ 30,060	\$ 71,083	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	101,143
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 810,484	\$ 1,731,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,542,409
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 49,206	\$ 96,302	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	145,508
terminal	\$ 41,883	\$ 153,391	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	195,273
drop	\$ 51,603	\$ 169,805	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	221,408
TOTAL	\$ 1,577,219	\$ 3,627,115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,204,334
	30.31%	69.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 94,727	\$ 224,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	318,730
aerial cable	\$ 5,190	\$ 12,274	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	17,464
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 129,254	\$ 276,202	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	405,456
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 10,429	\$ 20,410	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	30,839
terminal	\$ 6,701	\$ 24,543	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	31,245
drop	\$ 8,257	\$ 27,170	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	35,426
TOTAL	\$ 254,558	\$ 584,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,160
Network Expenses										
buried cable	\$ 23,093	\$ 54,609	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	77,702
aerial cable	\$ 1,890	\$ 4,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,361
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 31,510	\$ 67,334	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	98,845
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 2,031	\$ 3,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,006
terminal	\$ 1,623	\$ 5,945	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,569
drop	\$ 2,000	\$ 6,582	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,582
TOTAL	\$ 62,148	\$ 142,915	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	205,064
Summary										
Cost of Capital	\$ 254,558	\$ 584,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,160
Network Expense	\$ 62,148	\$ 142,915	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	205,064
TOTAL	\$ 316,706	\$ 727,518	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,044,223
NID Cost										
NID Investment	\$ 14,015	\$ 47,293	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,308
Levelized Cost of Capital	\$ 2,243	\$ 7,567	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,810
Network Expenses	\$ 481	\$ 1,531	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,012
TOTAL	\$ 2,723	\$ 9,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,822

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	\$ 331,773	\$ 639,517	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	971,290
SAI Investment	6,650	16,800	-	-	-	-	-	-	-	23,450
										\$ -
TOTAL	\$ 338,423 34.02%	\$ 656,317 65.98%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	994,740 100.00%
Levelized Cost of Capital										
DLC	\$ 64,809	\$ 124,924	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	189,733
SAI	1,064	2,688	-	-	-	-	-	-	-	3,752
TOTAL	\$ 65,873	\$ 127,612	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	193,485
Network Expenses										
DLC	\$ 5,076	\$ 9,785	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	14,861
SAI	130	329	-	-	-	-	-	-	-	460
TOTAL	\$ 5,206	\$ 10,114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,320
Summary										
Cost of Capital	\$ 65,873	\$ 127,612	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	193,485
Network Expense	5,206	10,114	-	-	-	-	-	-	-	15,320
TOTAL	\$ 71,079	\$ 137,726	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	208,805

	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	-	-	-	-	-	-	-	-	-	-
										\$ -
TOTAL	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	- 0.00%
Levelized Cost of Capital										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses										
DLC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
SAI	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Summary										
Cost of Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expense	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-

	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	\$ 331,773	\$ 639,517	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	971,290
SAI Investment	6,650	16,800	-	-	-	-	-	-	-	23,450
TOTAL	\$ 338,423 34.02%	\$ 656,317 65.98%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	994,740 100.00%

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	\$	64,809	\$	124,924	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	189,733
SAI		1,064		2,688		-		-		-		-		-		-		-	3,752
TOTAL	\$	65,873	\$	127,612	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	193,485
Network Expenses																			
DLC	\$	5,076	\$	9,785	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	14,861
SAI		130		329		-		-		-		-		-		-		-	460
TOTAL	\$	5,206	\$	10,114	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	15,320
Summary																			
Cost of Capital	\$	65,873	\$	127,612	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	193,485
Network Expense		5,206		10,114		-		-		-		-		-		-		-	15,320
TOTAL	\$	71,079	\$	137,726	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	208,805

Feeder

	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	
Fiber Feeder										
Feeder Investment										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	630,560	929,108	-	-	-	-	-	-	-	1,559,669
fiber buried cable	31,102	45,735	-	-	-	-	-	-	-	76,837
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	238,210	453,073	-	-	-	-	-	-	-	691,283
poles	23,040	41,632	-	-	-	-	-	-	-	64,673
TOTAL	\$ 922,913	\$ 1,489,548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,392,461
	38.58%	61.42%	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	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	97,499	143,661	-	-	-	-	-	-	-	241,160
fiber aerial cable	4,930	7,249	-	-	-	-	-	-	-	12,178
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	36,833	70,055	-	-	-	-	-	-	-	106,888
poles	4,883	8,623	-	-	-	-	-	-	-	13,707
TOTAL	\$ 144,144	\$ 229,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	373,933
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	24,515	36,122	-	-	-	-	-	-	-	60,637
fiber aerial cable	1,956	2,876	-	-	-	-	-	-	-	4,832
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	9,261	17,615	-	-	-	-	-	-	-	26,876
poles	951	1,718	-	-	-	-	-	-	-	2,669
TOTAL	\$ 36,683	\$ 58,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95,015
Summary										
Cost of Capital	\$ 144,144	\$ 229,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	373,933
Network Expense	36,683	58,331	-	-	-	-	-	-	-	95,015
TOTAL	\$ 180,827	\$ 288,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	468,947

	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	
Copper Feeder										
Feeder Investment										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Summary										
Cost of Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expense	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Total										
Feeder Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper u/g cable	-	-	-	-	-	-	-	-	-	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	630,560	929,108	-	-	-	-	-	-	-	1,559,669
fiber aerial cable	31,102	45,735	-	-	-	-	-	-	-	76,837
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	238,210	453,073	-	-	-	-	-	-	-	691,283
poles	23,040	41,632	-	-	-	-	-	-	-	64,673
TOTAL	\$ 922,913	\$ 1,469,548	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,392,461
	38.58%	61.42%	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	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	97,499	143,661	-	-	-	-	-	-	-	241,160
fiber aerial cable	4,930	7,249	-	-	-	-	-	-	-	12,178
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	36,833	70,055	-	-	-	-	-	-	-	106,888
poles	4,883	8,823	-	-	-	-	-	-	-	13,707
TOTAL	\$ 144,144	\$ 229,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	373,933
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	24,515	36,122	-	-	-	-	-	-	-	60,637
fiber aerial cable	1,956	2,876	-	-	-	-	-	-	-	4,832
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	9,261	17,615	-	-	-	-	-	-	-	26,876
poles	951	1,718	-	-	-	-	-	-	-	2,669
TOTAL	\$ 36,683	\$ 58,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95,015
Summary										
Cost of Capital	\$ 144,144	\$ 229,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	373,933
Network Expense	36,683	58,331	-	-	-	-	-	-	-	95,015
TOTAL	\$ 180,827	\$ 288,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	468,947

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	\$ 412,442	\$ 1,245,752	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,658,194
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	63,527	161,473	-	-	-	-	-	-	-	225,000
land	10,978	19,022	-	-	-	-	-	-	-	30,000
TOTAL	\$ 486,946	\$ 1,426,247	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,913,194
	25.45%	74.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
end office switching	\$ 66,740	\$ 201,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	268,324
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	9,596	24,391	-	-	-	-	-	-	-	33,987
land	1,847	3,201	-	-	-	-	-	-	-	5,048
TOTAL	\$ 78,183	\$ 229,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	307,359
Network Expenses										
end office switching	\$ 19,591	\$ 59,173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	78,764
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	7,005	17,806	-	-	-	-	-	-	-	24,811
land	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 26,596	\$ 76,979	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	103,575
Summary										
Cost of Capital	\$ 78,183	\$ 229,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	307,359
Network Expense	26,596	76,979	-	-	-	-	-	-	-	103,575
TOTAL	\$ 104,779	\$ 306,155	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	410,934

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	\$ 1,247	\$ 4,463	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,710
SCP wire center	200	714	-	-	-	-	-	-	-	914
STP	2,744	9,818	-	-	-	-	-	-	-	12,562
signaling links	31,524	34,545	-	-	-	-	-	-	-	66,069
TOTAL	\$ 35,715	\$ 49,539	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	85,254
	41.89%	58.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
SCP	\$ 202	\$ 722	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	924
SCP wire center	30	108	-	-	-	-	-	-	-	138
STP	444	1,589	-	-	-	-	-	-	-	2,033
signaling links	5,044	5,527	-	-	-	-	-	-	-	10,571
TOTAL	\$ 5,720	\$ 7,946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,666
Network Expenses										
SCP	\$ 59	\$ 212	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	271
SCP wire center	22	79	-	-	-	-	-	-	-	101
STP	130	466	-	-	-	-	-	-	-	597
signaling links	1,222	1,339	-	-	-	-	-	-	-	2,561
TOTAL	\$ 1,433	\$ 2,096	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,529
Summary										
Cost of Capital	\$ 5,720	\$ 7,946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,666
Network Expense	1,433	2,096	-	-	-	-	-	-	-	3,529
TOTAL	\$ 7,153	\$ 10,042	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	17,196

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	267,037	106,712	-	-	-	-	-	-	-	373,749
aerial cable	7,683	3,171	-	-	-	-	-	-	-	10,854
poles	4,146	1,668	-	-	-	-	-	-	-	5,814
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 278,866	\$ 111,552	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	390,417
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	41,290	16,500	-	-	-	-	-	-	-	57,790
aerial cable	1,218	503	-	-	-	-	-	-	-	1,720
poles	879	354	-	-	-	-	-	-	-	1,232
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 43,386	\$ 17,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	60,743
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	10,382	4,149	-	-	-	-	-	-	-	14,531
aerial cable	483	199	-	-	-	-	-	-	-	683
poles	171	69	-	-	-	-	-	-	-	240
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 11,036	\$ 4,417	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,453
Summary										
Cost of Capital	\$ 43,386	\$ 17,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	60,743
Network Expense	11,036	4,417	-	-	-	-	-	-	-	15,453
TOTAL	\$ 54,423	\$ 21,773	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	76,196
Transmission Terminal										
investment	\$ 62,314	\$ 49,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	111,366
levelized cost of capital	12,172	9,582	-	-	-	-	-	-	-	21,754
network expenses	953	750	-	-	-	-	-	-	-	1,704
TOTAL	\$ 13,126	\$ 10,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,458

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	189,567	188,800	-	-	-	-	-	-	-	378,367
aerial cable	5,593	5,632	-	-	-	-	-	-	-	11,225
poles	3,245	3,451	-	-	-	-	-	-	-	6,696
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 198,405	\$ 197,883	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	396,287
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	29,311	29,193	-	-	-	-	-	-	-	58,504
aerial cable	886	893	-	-	-	-	-	-	-	1,779
poles	688	731	-	-	-	-	-	-	-	1,419
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 30,885	\$ 30,817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,702
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	7,370	7,340	-	-	-	-	-	-	-	14,710
aerial cable	352	354	-	-	-	-	-	-	-	706
poles	134	142	-	-	-	-	-	-	-	276
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 7,856	\$ 7,837	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,693
Summary										
Cost of Capital	\$ 30,885	\$ 30,817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61,702
Network Expense	7,856	7,837	-	-	-	-	-	-	-	15,693
TOTAL	\$ 38,741	\$ 38,654	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	77,395
Transmission Terminal										
investment	\$ 44,500	\$ 83,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	127,597
levelized cost of capital	8,693	16,232	-	-	-	-	-	-	-	24,925
network expenses	681	1,271	-	-	-	-	-	-	-	1,952
TOTAL	\$ 9,374	\$ 17,504	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26,877

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	508,326	484,554	-	-	-	-	-	-	-	992,880
aerial cable	14,913	14,467	-	-	-	-	-	-	-	29,379
poles	8,519	8,776	-	-	-	-	-	-	-	17,295
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 531,757	\$ 507,797	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,039,555
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	78,599	74,923	-	-	-	-	-	-	-	153,522
aerial cable	2,364	2,293	-	-	-	-	-	-	-	4,656
poles	1,805	1,860	-	-	-	-	-	-	-	3,666
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 82,768	\$ 79,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	161,844
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	19,763	18,839	-	-	-	-	-	-	-	38,602
aerial cable	938	910	-	-	-	-	-	-	-	1,848
poles	352	362	-	-	-	-	-	-	-	714
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 21,052	\$ 20,111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,163
Summary										
Cost of Capital	\$ 82,768	\$ 79,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	161,844
Network Expense	21,052	20,111	-	-	-	-	-	-	-	41,163
TOTAL	\$ 103,820	\$ 99,187	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	203,007
Transmission Terminal										
investment	\$ 119,210	\$ 223,859	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	343,069
levelized cost of capital	23,287	43,729	-	-	-	-	-	-	-	67,015
network expenses	1,824	3,425	-	-	-	-	-	-	-	5,249
TOTAL	\$ 25,111	\$ 47,154	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	72,264

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	\$ 948	\$ 3,392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,340
wire center	1,247	4,463	-	-	-	-	-	-	-	5,710
TOTAL	\$ 2,195	\$ 7,854	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,050
Levelized Cost of Capital										
tandem switching	\$ 153	\$ 549	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	702
wire center	188	674	-	-	-	-	-	-	-	863
TOTAL	\$ 342	\$ 1,223	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,565
Network Expenses										
tandem switching	\$ 45	\$ 161	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	206
wire center	138	492	-	-	-	-	-	-	-	630
TOTAL	\$ 183	\$ 653	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	836
Summary										
Cost of Capital	\$ 342	\$ 1,223	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,565
Network Expense	183	653	-	-	-	-	-	-	-	836
TOTAL	\$ 524	\$ 1,876	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,401

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	\$ 399	\$ 1,428	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,827
OS Tandem Wire Center	499	1,785	-	-	-	-	-	-	-	2,284
OS Trunks	83,096	83,074	-	-	-	-	-	-	-	166,171
OS Position	728	2,606	-	-	-	-	-	-	-	3,335
TOTAL	\$ 84,723	\$ 88,894	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	173,617
Levelized Cost of Capital										
OS Tandem Switching	\$ 65	\$ 231	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	296
OS Tandem Wire Center	75	270	-	-	-	-	-	-	-	345
OS Trunks	12858.16188	12854.72392	0	0	0	0	0	0	0	25,713
OS Position	176	631	-	-	-	-	-	-	-	807
TOTAL	\$ 13,174	\$ 13,986	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	27,161
Network Expenses										
OS Tandem Switching	\$ 19	\$ 68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	87
OS Tandem Wire Center	55	197	-	-	-	-	-	-	-	252
OS Trunks	3,221	3,220	-	-	-	-	-	-	-	6,441
OS Position	49	176	-	-	-	-	-	-	-	225
Operator Wages	1,279	4,575	-	-	-	-	-	-	-	5,854
TOTAL	\$ 4,623	\$ 8,236	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,859
Summary										
Cost of Capital	\$ 13,174	\$ 13,986	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	27,161
Network Expense	4,623	8,236	-	-	-	-	-	-	-	12,859
TOTAL	\$ 17,797	\$ 22,222	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	40,019

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	\$ -	\$ 5,887	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,887
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital	\$ -	\$ 1,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,204
Network Expenses	\$ -	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,108
Summary										
Cost of Capital	\$ -	\$ 1,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,204
Network Expense	\$ -	\$ 1,108	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,108
TOTAL	\$ -	\$ 2,311	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,311

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%																																
COD	8.80%																																
EquityF																																	
EquityP																																	
WACC																																	
GtUpROR																																	
Tax																																	
Disct																																	
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	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
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		0.35003	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	0.18380	
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								0.13500	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															0.07200	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	0.04960	0.05385	0.05778	0.06144	0.06484				

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-GuFact	0.05885	0.05969	0.06362	0.06365	0.06377	0.06399	0.06370	0.06340	0.06370	0.06377	0.06397	0.06415	0.06383	0.06350	0.06386	0.06383	0.06389	0.06383	0.06392	0.06392	0.06396	0.06390	0.06393	0.06396	0.06400	0.06405	0.06403	0.06403	0.06403	0.06405	0.06406	0.06406	0.06406	
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	0.15434	0.15444	0.15454	0.15464	
10	0.14474	0.14518	0.14559	0.14598	0.14635	0.14670	0.14704	0.14735	0.14766	0.14794	0.14822	0.14848	0.14873	0.14897	0.14921	0.14943	0.14964	0.14984	0.15004	0.15023	0.15041	0.15059	0.15075	0.15092	0.15108	0.15123	0.15137	0.15152	0.15165	0.15179	0.15192	0.15204	0.15216	
11	0.14003	0.14061	0.14115	0.14166	0.14214	0.14260	0.14304	0.14345	0.14385	0.14424	0.14458	0.14493	0.14525	0.14557	0.14587	0.14616	0.14644	0.14671	0.14696	0.14721	0.14745	0.14768	0.14790	0.14811	0.14832	0.14851	0.14871	0.14889	0.14897	0.14925	0.14942	0.14958	0.14974	
12	0.13533	0.13603	0.13670	0.13733	0.13793	0.13850	0.13903	0.13955	0.14004	0.14050	0.14094	0.14137	0.14178	0.14216	0.14254	0.14289	0.14324	0.14357	0.14388	0.14419	0.14448	0.14477	0.14504	0.14530	0.14556	0.14580	0.14604	0.14627	0.14649	0.14671	0.14691	0.14712	0.14731	
13	0.13062	0.13146	0.13225	0.13301	0.13372	0.13439	0.13503	0.13564	0.13622	0.13678	0.13731	0.13781	0.13830	0.13876	0.13920	0.13963	0.14004	0.14043	0.14081	0.14117	0.14152	0.14186	0.14218	0.14249	0.14280	0.14309	0.14337	0.14365	0.14391	0.14417	0.14441	0.14465	0.14489	
14	0.12591	0.12689	0.12781	0.12868	0.12951	0.13029	0.13104	0.13174	0.13241	0.13306	0.13367	0.13426	0.13482	0.13535	0.13587	0.13636	0.13684	0.13729	0.13773	0.13815	0.13855	0.13895	0.13932	0.13969	0.14004	0.14038	0.14070	0.14102	0.14133	0.14163	0.14191	0.14219	0.14246	
15	0.12120	0.12231	0.12336	0.12435	0.12529	0.12618	0.12703	0.12784	0.12860	0.12933	0.13003	0.13070	0.13134	0.13195	0.13253	0.13310	0.13363	0.13415	0.13465	0.13513	0.13559	0.13604	0.13646	0.13688	0.13728	0.13766	0.13804	0.13840	0.13875	0.13909	0.13941	0.13973	0.14004	
16	0.11650	0.11774	0.11892	0.12003	0.12108	0.12208	0.12303	0.12393	0.12479	0.12561	0.12640	0.12714	0.12786	0.12854	0.12920	0.12983	0.13043	0.13101	0.13157	0.13211	0.13263	0.13313	0.13361	0.13407	0.13452	0.13495	0.13537	0.13577	0.13617	0.13654	0.13691	0.13727	0.13761	
17	0.11179	0.11317	0.11447	0.11570	0.11687	0.11798	0.11903	0.12003	0.12098	0.12189	0.12276	0.12359	0.12438	0.12514	0.12587	0.12656	0.12723	0.12788	0.12849	0.12909	0.12966	0.13022	0.13075	0.13126	0.13176	0.13224	0.13270	0.13315	0.13358	0.13400	0.13441	0.13481	0.13519	
18	0.10708	0.10860	0.11002	0.11138	0.11266	0.11387	0.11503	0.11613	0.11717	0.11817	0.11912	0.12003	0.12090	0.12173	0.12253	0.12330	0.12403	0.12474	0.12542	0.12607	0.12670	0.12731	0.12789	0.12845	0.12900	0.12953	0.13003	0.13053	0.13100	0.13146	0.13191	0.13234	0.13276	
19	0.10238	0.10402	0.10558	0.10705	0.10845	0.10977	0.11103	0.11222	0.11336	0.11445	0.11548	0.11647	0.11742	0.11833	0.11920	0.12003	0.12083	0.12160	0.12234	0.12305	0.12374	0.12440	0.12505	0.12566	0.12624	0.12681	0.12737	0.12790	0.12842	0.12892	0.12941	0.12988	0.13034	
20	0.09767	0.09945	0.10113	0.10273	0.10423	0.10567	0.10702	0.10832	0.10955	0.11072	0.11185	0.11292	0.11394	0.11492	0.11586	0.11676	0.11763	0.11846	0.11926	0.12003	0.12077	0.12149	0.12217	0.12284	0.12348	0.12410	0.12470	0.12528	0.12584	0.12638	0.12691	0.12742	0.12791	
21	0.09296	0.09488	0.09669	0.09840	0.09992	0.10136	0.10274	0.10401	0.10514	0.10619	0.10718	0.10812	0.10906	0.11000	0.11092	0.11183	0.11270	0.11355	0.11438	0.11519	0.11601	0.11678												

Depreciated life	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
CCCFact	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	0.15950	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	0.14944	0.14967	0.14987
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	0.13071	0.13118	0.13164	0.13210	0.13254	0.13299
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	0.10763	0.10836	0.10907	0.10976	0.11043	0.11108	0.11172	0.11234	0.11294	0.11353	0.11410
31	0.10212	0.10297	0.10380	0.10460	0.10538	0.10614	0.10688	0.10760	0.10830	0.10898	0.10964	0.11029	0.11092	0.11153	0.11213
32	0.09973	0.10061	0.10148	0.10231	0.10313	0.10392	0.10469	0.10543	0.10616	0.10687	0.10756	0.10823	0.10889	0.10953	0.11015
33	0.09734	0.09826	0.09916	0.10003	0.10087	0.10169	0.10249	0.10327	0.10403	0.10476	0.10548	0.10618	0.10686	0.10753	0.10818
34	0.09495	0.09591	0.09684	0.09774	0.09862	0.09947	0.10030	0.10111	0.10189	0.10266	0.10340	0.10413	0.10484	0.10553	0.10620
35	0.09256	0.09355	0.09452	0.09545	0.09636	0.09725	0.09811	0.09894	0.09973	0.10055	0.10133	0.10208	0.10281	0.10353	0.10423
36	0.09017	0.09120	0.09220	0.09317	0.09411	0.09502	0.09592	0.09678	0.09763	0.09845	0.09925	0.10003	0.10079	0.10153	0.10225
37	0.08778	0.08885	0.08988	0.09088	0.09185	0.09280	0.09372	0.09462	0.09549	0.09634	0.09717	0.09797	0.09876	0.09953	0.10027
38	0.08539	0.08649	0.08756	0.08859	0.08960	0.09058	0.09153	0.09246	0.09336	0.09424	0.09509	0.09592	0.09673	0.09753	0.09830
39	0.08301	0.08414	0.08524	0.08631	0.08735	0.08836	0.08934	0.09029	0.09122	0.09213	0.09301	0.09387	0.09471	0.09552	0.09632
40	0.08062	0.08179	0.08292	0.08402	0.08509	0.08613	0.08715	0.08813	0.08909	0.09002	0.09093	0.09182	0.09269	0.09352	0.09435
41	0.07823	0.07943	0.08060	0.08173	0.08284	0.08391	0.08495	0.08597	0.08696	0.08792	0.08885	0.08977	0.09066	0.09152	0.09237
42	0.07584	0.07708	0.07828	0.07945	0.08058	0.08169	0.08276	0.08381	0.08482	0.08581	0.08678	0.08772	0.08863	0.08952	0.09039
43	0.07345	0.07472	0.07596	0.07716	0.07833	0.07946	0.08057	0.08164	0.08269	0.08371	0.08470	0.08566	0.08660	0.08752	0.08842
44	0.07106	0.07237	0.07364	0.07488	0.07608	0.07724	0.07838	0.07948	0.08055	0.08160	0.08262	0.08361	0.08458	0.08552	0.08644
45	0.06867	0.07002	0.07132	0.07259	0.07382	0.07502	0.07618	0.07732	0.07842	0.07949	0.08054	0.08156	0.08255	0.08352	0.08447
46	0.06628	0.06766	0.06900	0.07030	0.07157	0.07280	0.07399	0.07515	0.07629	0.07739	0.07846	0.07951	0.08053	0.08152	0.08249
47	0.06390	0.06531	0.06668	0.06802	0.06931	0.07057	0.07180	0.07299	0.07415	0.07528	0.07638	0.07746	0.07850	0.07952	0.08051
48	0.06151	0.06296	0.06436	0.06573	0.06706	0.06835	0.06961	0.07085	0.07202	0.07318	0.07430	0.07540	0.07648	0.07752	0.07854
49	0.05912	0.06060	0.06204	0.06344	0.06480	0.06613	0.06741	0.06867	0.06988	0.07107	0.07223	0.07335	0.07445	0.07552	0.07656
50	0.05673	0.05825	0.05972	0.06116	0.06255	0.06390	0.06522	0.06650	0.06775	0.06896	0.07015	0.07130	0.07242	0.07352	0.07459
51	0.05434	0.05589	0.05740	0.05887	0.06030	0.06168	0.06303	0.06434	0.06562	0.06686	0.06807	0.06925	0.07040	0.07152	0.07261
52	0.05195	0.05354	0.05508	0.05658	0.05804	0.05946	0.06084	0.06218	0.06348	0.06475	0.06599	0.06720	0.06837	0.06952	0.07063
53	0.04956	0.05119	0.05277	0.05430	0.05579	0.05724	0.05864	0.06001	0.06135	0.06265	0.06391	0.06514	0.06635	0.06752	0.06866
54	0.04717	0.04883	0.05045	0.05201	0.05353	0.05501	0.05645	0.05785	0.05921	0.06054	0.06183	0.06309	0.06432	0.06552	0.06668
55	0.04479	0.04648	0.04813	0.04973	0.05128	0.05279	0.05426	0.05569							

EXPENSE MODULE INPUTS

	User Inputs	Calculations
State	Missouri	
Company	Craw - Kan Telephone	Cooperative Inc - Missouri

May 4, 2006
4:00 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	26,466		
intrastate DEMs, thousands	5,651		
interstate DEMs, thousands	5,579		
Local call completion fraction	70.00%		
Total local calls attempted	5,996		
Total intraLATA calls completed	359		
Total interLATA calls completed - intrastate	361		
Total interLATA calls completed - interstate	768		
local DEM fraction	68.21%		
local interoffice traffic fraction	12.04%		
D link investment, per link	\$ -		
Bus/Res DEMs ratio (local, state, interstate)	110%		
entrance facility investment per line	-		
local direct-routed fraction	98.00%		
tandem-routed intraLATA fraction	100.00%		
tandem-routed access fraction	100.00%		
maximum trunk usage, CCS	27.5		
ISUP msgs per i/o call attempt	6		
avg ISUP msg length, octets	25		
TCAP msgs per transaction	2		
TCAP msg length, octets	100		
fraction of calls requiring TCAP	10.00%		
trunk port investment, per port	\$ 100		
Switch line circuit offset per DLC line	\$ -		
Total signaling links	12		
Average trunk utilization	30.00%		

37,696 total DEMs, thousands
4,197 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	\$ 101,143
2421-nm	Aerial Cable - Non-Metall	22.24	-0.1753	18.92	\$ 106,216
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	\$ 1,998,592
2423-nm	Buried - Non-Metallic	23.86	-0.0858	21.97	\$ 3,304,664
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	\$ 2,099,736
Average Non-Metallic Cable (calculated)				21.86	\$ 3,410,881

\$ 7,429
\$ 5,613
\$ -
\$ -
\$ 108,858
\$ 150,386

\$ 116,287
\$ 155,999

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	5,651,000	
Interstate Toll DEMs	5,579,000	
trunk port usage	64,901,067	
trk-min/mo	10,044	
interLATA ded. trunks	93	
Common Transport MOU		
Local	61,890	w/o OS usage
Intrastate Toll	5,651,000	
Interstate Toll	5,579,000	
	11,291,890	
Intrastate IntraLATA Calls	359	49.86% SOCCC message counts
Intrastate InterLATA Calls	361	50.14%
	720	

Calculation of EO Usage

Local DEMs, incl OS	26,466,000	70.2% of total DEMs
Intraoffice Local DEMs	23,280,785	
Intraoffice Local Actual Min	11,640,392	
Interoffice Local Actual Min	3,185,215	per end
Intrastate Toll Actual Min	5,651,000	
Interstate Toll Actual Min	<u>5,579,000</u>	
	26,055,608	
Tandem Switch MOU		
Local	30,945	Dedicated Trunk-SW
IntraLATA Toll	1,408,826	106
InterLATA Toll	<u>8,412,349</u>	
	9,852,119	

TRANSFORMED REGULATED		1995 COMPANY NAME:	ICO	
		OTHER TAXES & UNCOLLECTIBLES CALCULATION	EXPENSES	NET REVENUES
		7230 OPERATING STATE & LOCAL INCOME TAX-NET	15	
		7240 OPERATING OTHER TAXES	62	
		5300 UNCOLLECTIBLE REVENUES		23
		530 NET REVENUES		1,483
		GROSS REVENUES (5300 + 530)		1,506
		UNCLL GROSS REV		0.015532
		(5300-4040(p.r)) / (5081+5; UNCLL RETAIL RATE		2.27%
		(4040(p)) / (5082..5084) UNCLL WHOLESALE RATE		0.43%
EXP	INV	PLANT SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. INVESTMENTS
		TPIS GENERAL SUPPORT		C. EXP/INV (A/B)
		2111 LAND		20
		2121 BUILDINGS		294
6121	2121	TOTAL LAND & BUILDINGS	32	314
				0.103180
6112	2112	2112 MOTOR VEHICLES	2	51
6113	2113	2113 AIRCRAFT	1	2
6114	2114	2114 SPECIAL PURPOSE VEHICLES	0	0
6115	2115	2115 GARAGE WORK EQUIPMENT	0	0
6116	2116	2116 OTHER WORK EQUIPMENT	0	40
6122	2122	2122 FURNITURE	2	19
6123	2123	2123 OFFICE EQUIPMENT	5	50
6124	2124	2124 GENERAL PRUPOSE COMPUTERS	49	76
6120	2110	2110 TOTAL LAND & SUPPORT ASSETS	88	554
				0.15965268
		TPIS - CENTRAL OFFICE SWITCHING		
		-		
6211	2211	2211 ANALOG ELECT SWITCH	1	32
6212	2212	2212 DIGITAL ELECTRONIC SWITCHING	55	968
6220	2220	2220 OPERATOR SYSTEMS	1	15
6210	2210	221022210221022102210 CENTRAL OFFICE SWITCH	58	1,016
		TPIS - CENTRAL OFFICE TRANSMISSION		0.056940858
		-		
6232	2232	2232 CIRCUIT EQUIPMENT	11	667
6230	2230	2230 TRANSMISSION	12	698
				0.016263483
		0.01663194		
		TPIS - INFORMATION ORIG/TERM		
		-		
6311	2311	2311 STATION APPARATUS	0	0
6321	2321	2321 CUSTOMER PREMISES WIRING	0	0
6341	2341	2341 LARGE PRIVATE BRANCH EXCHANGE	0	0
6351	2351	2351 PUBLIC TEL TERMINAL EQUIPMENT	4	21
6362	2362	2362 OTHER TERMINAL EQUIPMENT	6	36
6310	2310	2310 TOTAL INFORMATION ORIG/TERM	11	58
				0.182377792
		TPIS - CABLE & WIRE FACILITIES		
		-		
6411	2411	2411 POLES	5	115
6421	2421	2421 AERIAL CABLE	34	542
6422	2422	2422 UNDERGROUND CABLE	7	345
6423	2423	2423 BURIED CABLE	37	960
6441	2441	2441 CONDUIT SYSTEMS	1	196
6410	2410	2410 TOTAL CABLE & WIRE FACILITIES	85	2,181
				0.038842
		240 TOTAL TPIS(BEFORE AMORTIZABLE ASSETS)	168	4,540
		(2110+2210+2220+2230+2310+2410)		0.037062996
		PLANT NON-SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. TPIS INVESTMENT
		=	=	C. EXP/INV (A/B)
6512	240	6512 PROVISIONING EXPENSES	1	4,540
				0.000300
6531	240	6531 POWER EXPENSES	7	4,540
6532	240	6532 NETWORK ADMINISTRATION	19	4,540
6533	240	6533 TESTING	19	4,540
6534	240	6534 PLANT OPERATIONS ADMINISTRATION	29	4,540
6535	240	6535 ENGINEERING	15	4,540
6540	240	6540 ACCESS EXPENSE	25	4,540
6530	240	6530 TOTAL NETWORK OPERATIONS EXPENSES	90	4,540
6561	240	65616561656165616561 DEPRECIATION - TPIS	316 316 316 316 316	4,540 4,540 4,540 4,540
		NETWORK SUPPORT FACTOR CALCULATION	A. EXPENSES	B. CABLE & WIRE INV
		=	=	C. EXP/INV (A/B)
6112		2112 MOTOR VEHICLES	2	
6113		2113 AIRCRAFT	1	
6114		2114 SPECIAL PURPOSE VEHICLES	0	
6115		2115 GARAGE WORK EQUIPMENT	0	
6116		2116 OTHER WORK EQUIPMENT	0	
2410		TOTAL NETWORK SUPPORT (EXCL 2113)	2	2,181
				0.001041087
		CUSTOMER OPERATIONS EXPENSES	A. EXPENSES	B. NET REVENUES
		=	=	C. EXP/NET REV (A/B)
6611		6611 PRODUCT MANAGEMENT	13	CALC
6612		6612 SALES	24	CALC
6613		6613 PRODUCT ADVERTISING	9	CALC
6610		6610 TOTAL MARKETING EXPENSES	45	CALC
6621		6621 CALL COMPLETION SERVICE	10	CALC
6622		6622 NUMBER SERVICES	25	CALC
6623		6623 CUSTOMER SERVICES	81	CALC

6620	6620 TOTAL SERVICES EXPENSES	116	CALC
-	700 TOTAL CUSTOMER OPERATIONS EXPENSE (6610 + 6620)	162	CALC
	CORPORATE OPERATIONS EXPENSES	A. EXPENSES	B. REVENUES
			C. EXP/REV (A/B)
6711	6711 EXECUTIVE	6	CALC
6712	6712 PLANNING	3	CALC
6710	6710 TOTAL EXECUTIVE & PLANNING	9	CALC
6721	6721 ACCOUNTING & FINANCE	18	CALC
6722	6722 EXTERNAL RELATIONS	11	CALC
6723	6723 HUMAN RESOURCES	13	CALC
6724	6724 INFORMATION MANAGEMENT	51	CALC
6725	6725 LEGAL	4	CALC
6726	6726 PROCUREMENT	2	CALC
6727	6727 RESEARCH & DEVELOPMENT	3	CALC
6728	6728 OTHER GENERAL & ADMINISTRATIVE	43	CALC
6720	6720 TOTAL GENERAL & ADMINISTRATIVE	146	CALC
	710 TOTAL CORPORATE OPERATIONS EXPENSE (6710 + 6720 + 6790)	192	CALC
	720 TOTAL OPERATING EXPENSES		CALC
	DEM - LOCAL	26,466	
	DEM - INTRASTATE	5,651	
	DEM - INTERSTATE	5,579	
	MESSAGES - INTRALATA	359	
	MESSAGES - INTERLATA - interstate	768	
	MESSAGES - INTERLATA - intrastate	361.3177602	
4308 (EC)	LOCAL CALL ATTEMPTS	5,997	
	LINES - BUSINESS	582	
	RESIDENTIAL	1,578	
	PUBLIC	18	
	SPECIAL	144	
	TOTAL	2,326	
	5081 END USER		99
	5082 SWITCHED ACCESS		221
	5083 SPECIAL ACCESS		41
	TOTAL INTER ACCESS		360
	5084 END USER		
	5084 SWITCHED ACCESS		
	5084 SPECIAL ACCESS		
	STATE ACCESS		186
	TOTAL ACCESS REVENUES		546
	LD MESSAGE REVENUE		
	5100 INTERSTATE MESSAGE		
	5100 INTRASTATE MESSAGE		
	5100 INTERSTATE CALLING PLAN		
	5100 INTRASTATE CALLING PLAN		
	LD MSG REV (CLASS A)		156
	UNIDIRECTIONAL LD		
	5110 INTERSTATE		
	INTRASTATE		
	TOTAL		6
	5120 LD PRIVATE NETWORK		13
	OTHER LD		
	5160 INTERSTATE		
	INTRASTATE		
	TOTAL		2
	TOTAL LD NETWORK REVENUE		
	INTERSTATE		
	INTRASTATE		
	TOTAL		177
	BASIC LOCAL SERVICE		
	5001 BASIC AREA		480
	5002 OPTIONAL EXTEND AREA		15
	5003 CELLAR MOBIL		11
	5004 OTHER MOBIL SVC		1
	TOTAL BASIC SVC		507
	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				14
	5040 LOCAL PRIVATE LINE				17
	CUSTOMER PREMISE 5050 STATION APP CUSTOMER PREMISE WIRING TOTAL CUSTOMER PREMISES				1
	OTHER LOCAL EXCHANGE 5060 CO FEATURES INFO TRANSPORT DIRECTORY ASSIST INTERCEPT SRVC OTHER LOC EXCH TOTAL OTHER				118
	TOTAL LOCAL NETWORK SRVC REVENUE INTERSTATE INTRASTATE			657.6878497	
	TOTAL REVENUE			1380.578161	
	CAPITAL STRUCTURE PARAMETERS				
	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			657.7038629
	LD Ntwk Svs Rev	4303.Ln 525			178.3492918
	End User	4303.Ln 5081			98.69542181
	Sw Acc	4303.Ln 5082			220.9701656
	Spcl Acc	4303.Ln 5083			40.66406393
	St Acc	4303.Ln 5084			185.6111348
	Uncoll Rev	4303.Ln 5300			23.39202652
	Tot Acc	4304.Ln4040 (P)			1.938953105
	B&C	4304.Ln4040 (Q)			0.190438239
	IX	4304.Ln4040 (R)			0.006884211
	Ln4040 (P+Q+R)	Calc (P+Q+R)			2.136275555
Uncoll -Acc	5300-(4040p..r)	1a			21.25575096
End User+ Riev	5081+520+525	1b			934.7475765
Uncoll Retail Rate		1c=(a/b)			0.022739663
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	\$ 20	\$ -	-	
2112 Motor Vehicles	\$ 51	\$ 2	0.0348	
2113 Aircraft	\$ 2	\$ 1	0.3125	
2114 Special Purpose Vehicles	\$ 0	\$ 0	0.0142	
2115 Garage Work Equipment	\$ 1	\$ 0	0.0353	
2116 Other Work Equipment	\$ 40	\$ 0	0.0113	
2121 Buildings	\$ 294	\$ 32	0.1103	Land & Bldg Exp Applied to Bldgs
2122 Furniture	\$ 19	\$ 2	0.1224	
2123 Office Equipment	\$ 50	\$ 5	0.1015	
2124 General Purpose Computers	\$ 76	\$ 49	0.6381	
2110 Total Land & Support Assets	\$ 554	\$ 91	0.1650	
TPIS - Central Office Switching				
2211 Analog Electronic Switching	\$ 32	\$ 1	0.0453	
2212 Digital Electronic Switching	\$ 968	\$ 55	0.0569	4.75% NET CO Switch Factor
2210 Total Central Office Switching	\$ 1,001	\$ 57	0.0565	
2220 Operator Systems	\$ 15	\$ 1	0.0675	
TPIS - Central Office Transmission				
2231 Satellite & Earth Station Facilities				
2231 Other Radio Facilities				
2231 Radio Systems				
2232 Circuit Equipment	\$ 667	\$ 11	0.0163	1.53% alternative factor
2230 Total Central Office Transmission	\$ 667	\$ 11	0.0163	
TPIS - Information Orig/Term				
2311 Station Apparatus	\$ 0	\$ 0	0.3824	
2321 Customer Premises Wiring	\$ -	\$ -	0.0000	
2341 Large Private Branch Exchange	\$ 0	\$ 0	4.5000	
2351 Public Telephone Terminal Equipment	\$ 21	\$ 4	0.1881	
2362 Other Terminal Equipment	\$ 36	\$ 6	0.1763	
2310 Total Information Orig/Term	\$ 58	\$ 11	0.1824	
TPIS - Cable & Wire Facilities				
2411 Poles	\$ 115	\$ 5	0.0413	
2421 Aerial Cable	\$ 542	\$ 34	0.0629	0.0629 0.0196 0.0389Alternative fiber cable maintenance factors
2422 Underground Cable	\$ 345	\$ 7	0.0196	
2423 Buried Cable	\$ 960	\$ 37	0.0389	
2424 Submarine Cable				
2425 Deep Sea Cable				
2426 Intrabuilding Network Cable				
2431 Aerial Wire				
2441 Conduit Systems	\$ 196	\$ 1	0.0037	
2410 Total Cable & Wire Facilities	\$ 2,158	\$ 84	0.0388	
240 Total TPIS (before amortizable assets)	\$ 3,899	\$ 254	0.0652	
Plant Non-Specific Operations Expenses				
	Expenses	Investment	Factor	
6512 Provisioning Expenses	\$ 1	\$ 3,899	0.0003	
6531 Power Expenses	\$ 7	\$ 3,899	0.0019	8.10% all
6532 Network Administration	\$ 19	\$ 3,899	0.0048	20.47% switching, interoffice
6533 Testing	\$ 19	\$ 3,899	0.0050	21.22% all
6534 Plant Operations Administration	\$ 29	\$ 3,899	0.0074	31.89% all
6535 Engineering	\$ 15	\$ 3,899	0.0039	16.83% all
6540 Access Expense				
6530 Total Network Operations Expenses (includes provisioning)	\$ 91	\$ 3,899	0.0233	per line network operations
Network Support Factor Calculation				(=total ARMIS 6530/total lines)
	Expenses	Cable & Wire Inv	Factor	2,326
6112 Motor Vehicles	\$ 2			
6113 Aircraft	\$ 1			
6114 Special Purpose Vehicles	\$ 0			
6115 Garage Work Equipment	\$ 0			
6116 Other Work Equipment	\$ 0			
Aircraft & Special Purpose Vehicles	\$ 2	\$ 2,158	0.0011	annual net ops per line
				\$ 39.11

Customer Operations Expenses

	Expenses		Net Revenues		Factor		
6611 Product Management *	\$	13	\$	0.4638	\$	778	0.0166
6612 Sales *	\$	24	\$	0.8522	\$	778	0.0306
6613 Product Advertising	\$	9			\$	778	0.0110
6610 Total Marketing Expenses	\$	45					0.0582
6621 Call Completion Service	\$	10			\$	778	0.0131
6622 Number Services	\$	25	\$	0.8863	\$	778	0.0318
6623 Customer Services	\$	81	\$	2.9168	\$	778	0.1046
6620 Total Services Expenses	\$	116	\$	4.23			0.1495
Billing/bill inquiry (per line/month)	\$	2.30					
Directory listing (per line/month)		-					
700 Total Customer Operations Expenses	\$	161.67			\$	778	0.2078
							0.2442

Corporate Operations Expenses

Corporate Operations Expenses		Expenses	Revenues	Factor		
6711 Executive	\$	6	\$	778	0.0079	
6712 Planning		3	\$	778	0.0039	
6710 Total Executive & Planning	\$	9	\$	778	0.0117	
6721 Accounting & Finance	\$	18	\$	778	0.0237	
6722 External Relations	\$	11	\$	778	0.0144	
6723 Human Resources	\$	13	\$	778	0.0171	
6724 Information Management	\$	51	\$	778	0.0653	
6725 Legal	\$	4	\$	778	0.0055	
6726 Procurement	\$	2	\$	778	0.0030	
6727 Research & Development	\$	3	\$	778	0.0038	
6728 Other General & Administrative	\$	43	\$	778	0.0554	
6720 Total General & Administrative	\$	146	\$	778	0.1880	
710 Total Corporate Operations Expense	\$	155	\$	778	0.1040	0.2347
720 Total Operating Expenses	\$	662				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	\$ 19	\$ 50	\$ 76	\$ 51	\$ 147	\$ 1	\$ 40
Investment/TPIS	0.005	0.013	0.020	0.013	0.038	0.000	0.010
Expense	\$ 2	\$ 5	\$ 49	\$ 2	\$ 16	\$ 0	\$ 0
Expense Factor	0.122	0.101	0.638	0.035	0.110	0.035	0.011
Model TPIS	\$ 13,249	\$ 13,249	\$ 13,249	\$ 13,249	\$ 13,249	\$ 13,249	\$ 13,249
Calculated Investment	\$ 66	\$ 168	\$ 259	\$ 173	\$ 500	\$ 5	\$ 135
Calculated Expense	\$ 8	\$ 17	\$ 165	\$ 6	\$ 55	\$ 0	\$ 2
Subtotal (\$s)	\$ 111,762						
Total Misc Expense	\$ 111,762						

Other Taxes & Uncollectibles Calculation

	Expenses		Net Revenues		Factor
7230 Operating State & Local Income Tax	\$	15	\$	(75)	
7240 Operating Other Taxes	\$	62	\$	(75)	0.0500
5300 Uncollectible Revenues	\$	23	\$	778	0.0301
retail					0.0227
wholesale					0.0043
Ratio of Net Plant to TPIS					
TPIS	\$	3,899			
Net Plant	\$	3,899			
Ratio	\$	1			
Model Investment	\$	-			
Model % of Net Plant	\$	-			
Model % of TPIS		0%			

Actual 1996 Revenue

		% of total
Interstate Access		
5081 End User	\$ 99	8.26%
5082 Switched Access	\$ 221	18.49%
5083 Special Access	\$ 41	3.40%
Total Inter Access	\$ 360	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	\$ 360	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	\$ 156	13.08%
Unidirectional LD Revenue		
5110 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 6	0.48%
LD Private Network Revenue		
5120 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 13	1.08%
Other Long Distance Revenue		
5160 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 2	0.17%
Total Long Distance Network Rev		
Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 177	14.81%

Basic Local Service		
5001 Basic Area	\$ 480	40.21%
5002 Optional Extended Area	\$ 15	1.23%
5003 Cellular Mobile	\$ 11	0.95%
5004 Other Mobile Svcs	\$ 1	0.08%
Total Basic Local Service	\$ 507	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	\$ 14	1.18%
Local Private Line Revenue		
5040 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total Private Line	\$ 17	1.40%
Customer Premises Revenue		
5050 Station Apparatus	\$ -	0.00%
Customer Premises Wiring	\$ -	0.00%
Total Customer Premises	\$ 1	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	\$ 118	9.89%
Total Local Network Service Revenue		
Interstate	\$ -	0.00%
Intrastate	\$ 658	55.04%
Total Revenue	\$ 1,195	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\HMWKMO4217591.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	5,996	5,996	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	359	359	Distribution Buried Shring Fraction - 100	1.00	1.00
InterLATA intrastate Calls Completed	361	361	Distribution Buried Shring Fraction - 200	1.00	1.00
InterLATA interstate Calls Completed	768	768	Distribution Buried Shring Fraction - 650	1.00	1.00
Local DEMs, thousands	26,466	26,466	Distribution Buried Shring Fraction - 850	1.00	1.00
Intrastate DEMs, thousands	5,651	5,651	Distribution Buried Shring Fraction - 2550	1.00	1.00
Interstate DEMs, thousands	5,579	5,579	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			

HAI Model Release 5.0a
User Adjustable Inputs

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

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