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																			
5	DLC	2,030	367	1,585	60	17	28	1,540	$ -	$ -	$ -	$ -	$ 434,618	$ 21,447	$ -		$ -	$ -	$ -	$ 175,224
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/Avgs		2,030	367	1,585	60	17	28	1,540	$ -	$ -	$ -	$ -	$ 434,618	$ 21,447	$ -	$ -	$ -	$ -	$ -	$ 175,224

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																	
5	DLC	$ 17,357	$ -	$ 1,226,752	$ 62,083	$ -	$ -	$ 1,169,864	$ 61,216	0.00%	30.95%	0.00%	$ 412,041	$ 16,750	$ 170,406	$ 181,379	$ 51,582	108,536
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/Avgs		$ 17,357	$ -	$ 1,226,752	$ 62,083	$ -	$ -	$ 1,169,864	$ 61,216				$ 412,041	$ 16,750	$ 170,406	$ 181,379	$ 51,582	108,536

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																	
5	DLC	643,131	2,030	$ 740,601	$ -	$ 122,500	$ 20,000	$ 3,743	$ 4,925	$ 1,576	$ 1,970	$ 76,749	$ 2,890		$ 623,570	$ 17,190	$ 11,232	$ -
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/Avgs		643,131	2,030	$ 740,601	$ -	$ 122,500	$ 20,000	$ 3,743	$ 4,925	$ 1,576	$ 1,970	$ 76,749	$ 2,890	$ -	$ 623,570	$ 17,190	$ 11,232	$ -

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																	
5	DLC		$ 132,253		$ 189,090	$ 5,225	$ 3,415	$ -		$ 40,965		$ 398,307	$ 10,896	$ 7,111	$ -		$ 78,647	26
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/Avgs		$ -	$ 132,253	$ -	$ 189,090	$ 5,225	$ 3,415	$ -	$ -	$ 40,965	$ -	$ 398,307	$ 10,896	$ 7,111	$ -	$ -	$ 78,647	26

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	DLC	6	2	39	80	98	17	4,925	$ 788	$ 10,835	$ 17,171	$ 13,175	24,365,162	8,528,838	6,540,465
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/Avgs		6	2	39	80	98	17	4,925	$ 788	$ 10,835	$ 17,171	$ 13,175	24,365,162	8,528,838	6,540,465

Universal Service Calculation Sheet - monthly costs per line

Missouri
Ozark Tel Co

	0 - 5 lines/sq mi	5 - 100 lines/sq mi	100 - 200 lines/sq mi	200 - 650 lines/sq mi	650 - 850 lines/sq mi	850 - 2,550 lines/sq mi	2,550 - 5,000 lines/sq mi	5,000 - 10,000 lines/sq mi	> 10,000 lines/sq mi	Weighted Average
Local network costs										
Loop	$ -	$ 44.38	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 44.38
Port	-	3.34	-	-	-	-	-	-	-	3.34
End office usage	-	4.44	-	-	-	-	-	-	-	4.44
Signaling	-	0.09	-	-	-	-	-	-	-	0.09
Transport	-	2.80	-	-	-	-	-	-	-	2.80
Local retail costs										
Billing/bill inquiries	$ -	$ 2.74	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2.74
Directory listing	-	-	-	-	-	-	-	-	-	-
LNP expense (when available)	-	0.30	-	-	-	-	-	-	-	0.30
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Basic Local Service										
Avg monthly cost per line	**$ -**	**$ 58.10**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 58.10**
@ Residence usage per line	**$ -**	**$ 57.90**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 57.90**
@ Business usage per line	**$ -**	**$ 58.91**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 58.91**
Total switched lines	-	1,970	-	-	-	-	-	-	-	1,970
Primary residence lines	-	1,540	-	-	-	-	-	-	-	1,540
Secondary residence lines	-	45	-	-	-	-	-	-	-	45
Single line business lines	-	28	-	-	-	-	-	-	-	28
Multline business lines	-	339	-	-	-	-	-	-	-	339
Public lines	-	17	-	-	-	-	-	-	-	17

FEDERAL FUND ANALYSIS

Annual Support for line types:	Specify	Bench mark	0 - 5	5 - 100	100 - 200	200 - 650	650 - 850	850 - 2,550	2,550 - 5,000	5,000 - 10,000	> 10,000	Weighted Average
Primary residence lines	X	**$31.00**	$ 0	$ 497,018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 497,018
Secondary residence lines		**$31.00**	$ 0	$ 14,656	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,656
Single line business lines	X	**$51.00**	$ 0	$ 2,662	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,662
Multline business lines		**$51.00**	$ 0	$ 32,231	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 32,231
Public lines		**$51.00**	$ 0	$ 1,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,646
Support cost if all lines supported			$ 0	$ 548,214	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 548,214
Total annual support for specified lines			**$ -**	**$ 499,681**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 499,681**
@25% Federal allocation			$ -	$ 124,920	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 124,920
@Implied 75% State allocation			$ -	$ 374,761	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 374,761

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

	0 - 5	5 - 100	100 - 200	200 - 650	650 - 850	850 - 2,550	2,550 - 5,000	5,000 - 10,000	> 10,000	Weighted Average
$20.00	$ 0	$ 700,279	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 700,279
$30.00	$ 0	$ 515,497	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 515,497
$40.00	$ 0	$ 330,714	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 330,714
$50.00	$ 0	$ 145,932	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 145,932
$60.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0
$70.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0
$80.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0

STATE FUND ANALYSIS												
Annual Support for line types:	**Specify**	**Bench mark**										
Primary residence lines	X	**$31.00**	$ 0	$ 497,018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 497,018
Secondary residence lines		**$31.00**	$ 0	$ 14,656	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,656
Single line business lines	X	**$51.00**	$ 0	$ 2,662	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,662
Multline business lines		**$51.00**	$ 0	$ 32,231	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 32,231
Public lines		**$51.00**	$ 0	$ 1,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,646
Support cost if all lines supported			$ 0	$ 548,214	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 548,214
Total annual support for specified lines			**$ -**	**$ 499,681**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 499,681**
@75% State allocation			$ -	$ 374,761	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 374,761
@Implied 25% Federal allocation			$ -	$ 124,920	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 124,920

TOTAL FUND ANALYSIS										
25% Federal allocation from Federal Fund Analy	$ -	$ 124,920	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 124,920
75% State allocation from State Fund Analysis	$ -	$ 374,761	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 374,761
Total Federal + State fund	**$ -**	**$ 499,681**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 499,681**

Module release date: 11/4/1997

COST OF NETWORK ELEMENTS

Missouri
Ozark Tel Co

Loop elements	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
NID										
Annual Cost	$ -	$ 13,100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,100
Unit Cost/month	-	0.54	-	-	-	-	-	-	-	0.54
Loop Distribution (DLC)										
Annual Cost	$ -	$ 762,567	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 762,567
Unit Cost/month	-	31.31	-	-	-	-	-	-	-	31.31
Loop Distribution (non-DLC)										
Annual Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Distribution (all)										
Annual Cost	$ -	$ 762,567	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 762,567
Unit Cost/month	-	31.31	-	-	-	-	-	-	-	31.31
Loop Concentration (DLC)										
Annual Cost	$ -	$ 119,006	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 119,006
Unit Cost/month	-	4.89	-	-	-	-	-	-	-	4.89
Loop Concentration (non-DLC)										
Annual Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Concentration (all)										
Annual Cost	$ -	$ 119,006	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 119,006
Unit Cost/month	-	4.89	-	-	-	-	-	-	-	4.89
Loop Feeder (DLC)										
Annual Cost	$ -	$ 168,499	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 168,499
Unit Cost/month	-	6.92	-	-	-	-	-	-	-	6.92
Loop Feeder (non-DLC)										
Annual Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Feeder (all)										
Annual Cost	$ -	$ 168,499	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 168,499
Unit Cost/month	-	6.92	-	-	-	-	-	-	-	6.92
Total Loop (DLC)										
Annual Cost	$ -	$ 1,063,172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,063,172
Unit Cost/month	-	43.65	-	-	-	-	-	-	-	43.65
Total Loop (non-DLC)										
Annual Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Total Loop (all)										
Annual Cost	$ -	$ 1,063,172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,063,172
Unit Cost/month	-	43.65	-	-	-	-	-	-	-	43.65
Total lines	-	2,030	-	-	-	-	-	-	-	2,030
Total lines served by DLC	-	2,030	-	-	-	-	-	-	-	2,030

		Annual Cost	Units			Unit Cost		
End office switching	$	259,185						
Line Port		77,755	1,970	switched lines	$	3.29	per line/month	
Non-Line Port		181,429	22,736,454	actual minutes	$	0.00798	per actual minute	(for rate per DEM, see "Cost detail" sheet)
Signaling network elements	$	9,417						
Links		4,795	4	links	$	103.17	per link per month	
STP		3,026	12,873,527	TCAP+ISUP msgs	$	0.00024	per signaling message	
SCP		1,596	1,306,200	TCAP queries	$	0.00122	per query	
Transport network elements								
Dedicated								
Sw+Sp Transport	$	110,652	80	trunks	$	114.90	per DS-0 equivalent per month	
Switched		28,131	20	trunks	$	0.01144	per minute	
Special		82,522	60	trunks				
Transmission Terminal		22,551	80	trunks	$	23.42	per DS-0 equivalent per month	
					$	0.00233	per minute	
					$	0.01377	total per minute	
Common								
Transport	$	173,306	9,853,014	minutes	$	0.01005	per minute per leg (orig or term)	
Transmission Terminal		37,922	9,853,014	minutes	$	0.00220	per minute	
					$	0.01225	total per minute	
Direct								
Transport	$	52,560	1,323,353	minutes	$	0.03972	per minute	
Transmission Terminal		11,746	1,323,353	minutes	$	0.00888	per minute	
					$	0.04859	total per minute	
Tandem switch	$	2,819	8,597,183	minutes	$	0.00033	per minute	
Operator systems	$	28,673						
Public Telephones	$	6,825						
Total (w/ Public)	$	1,778,828						
Total cost of switched network elements (w/o Public)	$	69.43	per line/month					

	interconnected at end office		tandem		wtd average
Local interconnection					
EO switching	$	0.00798	$	0.00798	
ISUP	$	0.00075	$	0.00075	
Common Transport	$	-	$	0.01225	
Tandem Switching	$	-	$	0.00033	
TOTAL	$	0.00873	$	0.02131	n/a
IXC switched access					
EO switching	$	0.00798	$	0.00798	
ISUP	$	0.00075	$	0.00075	
Dedicated Transport	$	0.01377	$	0.01377	
Common Transport	$	-	$	0.01225	
Tandem Switching	$	-	$	0.00033	
TOTAL	$	0.02250	$	0.03508	$ 0.03508

Signaling detail		
cost per 800 call attempt (TCAP)	$	0.0029
ISUP cost/transaction	$	0.00390
ISUP cost/completion		0.0056
IXC switched access MOU/comp		7.45
ISUP cost/min	$	0.000747
D link per month	$	-
Dedicated Transport Costs Per Trunk		
DS-0 per month		
Transport per month	$	114.90
Terminal per month *	$	290.37
TOTAL	$	405.27
DS-1 per month		
Transport per month	$	2,757.60
Terminal per month	$	562.01
TOTAL	$	3,319.61
DS-3 per month		
Transport per month	$	77,212.92
Terminal per month	$	1,589.51
TOTAL	$	78,802.43
Trunk Port Costs		
per trunk port (DS-0 equivalent) per month	$	2.92
per trunk port minute	$	0.000290
total EO usage per minute	$	0.007980
trk port/min	$	0.000290
other	$	0.007689

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	181,429
Total DEMs	32,894,000
Cost per DEM	$ 0.00552

	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)	0.0%	30.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.9%
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		78,647
Total Lines		2,030
Total Dedicated Terminal Investment per line	$	39
Entrance Facility percent to total	$	-
Terminal Investment per DS-0	$	980
Transport Investment per DS-0	$	5,188

Network-Related Expenses

	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 Capital Cost	$ -	$ 8,253	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,253
Network Expenses	$ -	$ 1,632	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,632
Direct expense	$ -	$ 9,885	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,885
Investment	$ -	$ 51,582	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 51,582
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 3,132	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,132
Total	$ -	$ 13,018	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,018
with carrier-to-carrier	$ -	$ 13,043	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,043
Distribution (DLC)										
Annual Capital Cost	$ -	$ 462,186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 462,186
Network Expenses	$ -	$ 113,243	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 113,243
Direct expense	$ -	$ 575,429	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 575,429
Investment	$ -	$ 2,871,699	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,871,699
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 182,347	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 182,347
Total	$ -	$ 757,776	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 757,776
with carrier-to-carrier	$ -	$ 759,261	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 759,261
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	$ -	$ 462,186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 462,186
Network Expenses	$ -	$ 113,243	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 113,243
Direct expense	$ -	$ 575,429	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 575,429
Investment	$ -	$ 2,871,699	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,871,699
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 182,347	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 182,347
Total	$ -	$ 757,776	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 757,776
with carrier-to-carrier	$ -	$ 759,261	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 759,261
Concentrator (DLC)										
Annual Capital Cost	$ -	$ 83,169	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,169
Network Expenses	$ -	$ 6,633	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,633
Direct expense	$ -	$ 89,801	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 89,801
Investment	$ -	$ 428,791	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 428,791
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 28,457	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,457
Total	$ -	$ 118,258	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 118,258
with carrier-to-carrier	$ -	$ 118,490	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 118,490
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	$ -	$ 83,169	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,169
Network Expenses	$ -	$ 6,633	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,633
Direct expense	$ -	$ 89,801	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 89,801
Investment	$ -	$ 428,791	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 428,791
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 28,457	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,457
Total	$ -	$ 118,258	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 118,258
with carrier-to-carrier	$ -	$ 118,490	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 118,490
Feeder (DLC)										
Annual Capital Cost	$ -	$ 101,373	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,373
Network Expenses	$ -	$ 25,775	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,775
Direct expense	$ -	$ 127,148	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 127,148
Investment	$ -	$ 648,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 648,646
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 40,292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,292
Total	$ -	$ 167,440	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 167,440
with carrier-to-carrier	$ -	$ 167,768	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 167,768
Feeder (non-DLC)										
Annual Capital Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Network Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Direct expense	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Network-Related Expenses	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
Investment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
with carrier-to-carrier	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Feeder (all)										
Annual Capital Cost	$ -	$ 101,373	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,373
Network Expenses	$ -	$ 25,775	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,775
Direct expense	$ -	$ 127,148	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 127,148
Investment	$ -	$ 648,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 648,646
Support & Overhead per line	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Support & Overhead per direct exp.	$ -	$ 40,292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,292
Total	$ -	$ 167,440	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 167,440
with carrier-to-carrier	$ -	$ 167,768	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 167,768
End Office Switching										
Annual Capital Cost	$ -	$ 141,711	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 141,711
Network Expenses	$ -	$ 48,687	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 48,687
Direct expense	$ -	$ 190,398	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 190,398
Investment	$ -	$ 883,101	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 883,101
Support expenses	$ -	$ 42,908	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 42,908
Subtotal, with misc spt	$ -	$ 233,306	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 233,306
Total, with var overhead	$ -	$ 257,570	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 257,570
with carrier-to-carrier	$ -	$ 258,061	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 258,061
Signaling										
Annual Capital Cost	$ -	$ 5,417	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,417
Network Expenses	$ -	$ 1,501	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,501
Direct expense	$ -	$ 6,918	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,918
Investment	$ -	$ 33,719	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 33,719
Support expenses	$ -	$ 1,559	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,559
Subtotal, with misc spt	$ -	$ 8,477	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,477
Total, with var overhead	$ -	$ 9,358	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,358
with carrier-to-carrier	$ -	$ 9,376	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,376
Dedicated Transport										
Annual Capital Cost	$ -	$ 64,821	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 64,821
Network Expenses	$ -	$ 16,464	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 16,464
Direct expense	$ -	$ 81,285	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 81,285
Investment	$ -	$ 416,313	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 416,313
Support expenses	$ -	$ 18,318	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,318
Subtotal, with misc spt	$ -	$ 99,604	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 99,604
Total, with var overhead	$ -	$ 109,963	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 109,963
with carrier-to-carrier	$ -	$ 110,173	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 110,173
Dedicated Transport Transmission										
Annual Capital Cost	$ -	$ 15,363	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,363
Network Expenses	$ -	$ 1,203	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,203
Direct expense	$ -	$ 16,566	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 16,566
Investment	$ -	$ 78,647	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 78,647
Support expenses	$ -	$ 3,733	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,733
Subtotal, with misc spt	$ -	$ 20,300	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,300
Total, with var overhead	$ -	$ 22,411	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 22,411
with carrier-to-carrier	$ -	$ 22,453	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 22,453
Direct Transport										
Annual Capital Cost	$ -	$ 30,790	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 30,790
Network Expenses	$ -	$ 7,821	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,821
Direct expense	$ -	$ 38,611	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 38,611
Investment	$ -	$ 197,730	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 197,730
Support expenses	$ -	$ 8,701	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,701
Subtotal, with misc spt	$ -	$ 47,312	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 47,312
Total, with var overhead	$ -	$ 52,232	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 52,232
with carrier-to-carrier	$ -	$ 52,332	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 52,332
Direct Transport Transmission										
Annual Capital Cost	$ -	$ 8,002	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,002
Network Expenses	$ -	$ 627	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 627
Direct expense	$ -	$ 8,629	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,629
Investment	$ -	$ 40,965	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,965
Support expenses	$ -	$ 1,945	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,945
Subtotal, with misc spt	$ -	$ 10,573	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,573
Total, with var overhead	$ -	$ 11,673	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,673
with carrier-to-carrier	$ -	$ 11,695	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,695
Common Transport										
Annual Capital Cost	$ -	$ 101,523	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,523
Network Expenses	$ -	$ 25,788	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,788
Direct expense	$ -	$ 127,311	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 127,311
Investment	$ -	$ 651,991	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 651,991
Support expenses	$ -	$ 28,691	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,691
Subtotal, with misc spt	$ -	$ 156,002	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 156,002
Total, with var overhead	$ -	$ 172,226	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 172,226
with carrier-to-carrier	$ -	$ 172,555	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 172,555

Network-Related Expenses

	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
Common Transport Transmission										
Annual Capital Cost	$ -	$ 25,834	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,834
Network Expenses	$ -	$ 2,023	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,023
Direct expense	$ -	$ 27,858	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 27,858
Investment	$ -	$ 132,253	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 132,253
Support expenses	$ -	$ 6,278	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,278
Subtotal, with misc spt	$ -	$ 34,136	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 34,136
Total, with var overhead	$ -	$ 37,686	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 37,686
with carrier-to-carrier	$ -	$ 37,758	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 37,758
Tandem Switching										
Annual Capital Cost	$ -	$ 1,350	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,350
Network Expenses	$ -	$ 721	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 721
Direct expense	$ -	$ 2,071	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,071
Investment	$ -	$ 8,668	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,668
Support expenses	$ -	$ 467	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 467
Subtotal, with misc spt	$ -	$ 2,537	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,537
Total, with var overhead	$ -	$ 2,801	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,801
with carrier-to-carrier	$ -	$ 2,806	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,806
Operator Systems										
Annual Capital Cost	$ -	$ 13,126	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,126
Network Expenses	$ -	$ 8,511	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,511
Direct expense	$ -	$ 21,637	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 21,637
Investment	$ -	$ 83,185	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,185
Support expenses	$ -	$ 4,172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,172
Subtotal, with misc spt	$ -	$ 25,809	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,809
Total, with var overhead	$ -	$ 28,493	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,493
with carrier-to-carrier	$ -	$ 28,549	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,549
Public Telephone										
Annual Capital Cost	$ -	$ 2,694	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,694
Network Expenses	$ -	$ 2,479	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,479
Direct expense	$ -	$ 5,172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,172
Investment	$ -	$ 13,175	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,175
Support expenses	$ -	$ 997	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 997
Subtotal, with misc spt	$ -	$ 6,170	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,170
Total, with var overhead	$ -	$ 6,812	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,812
with carrier-to-carrier	$ -	$ 6,825	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,825
Totals										
Annual Capital Cost	$ -	$ 1,065,611	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,065,611
Network Expenses	$ -	$ 263,107	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 263,107
Total	$ -	$ 1,328,718	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,328,718
Investment	$ -	$ 6,540,465	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,540,465
Supporting Network Expenses										
Capital Cost - Genl Support	$ -	$ 54,854	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 54,854
Network Operations	$ -	$ 63,142	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 63,142
Network Support	$ -	$ 3,808	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,808
Other Taxes	$ -	$ 79,247	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 79,247
Misc Expenses	$ -	$ 55,172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 55,172
Subtotal	$ -	$ 256,222	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 256,222
Carrier-carrier customer svc	$ -	$ 3,430	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,430
Interoffice/Switching Net Ops	$ -	$ 16,251	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 16,251
Interoffice/Sw Exp	$ -	$ 499,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 499,646
Total Network Costs	$ -	$ 1,601,192	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,601,192
Other costs										
Other Taxes	$ -	$ 79,247	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 79,247
Monthly Cost Factors										
Loop	-	0.02252	-	-	-	-	-	-	-	0.02252
Port	-	0.00746	-	-	-	-	-	-	-	0.00746
Switching	-	0.00991	-	-	-	-	-	-	-	0.00991
Signaling	-	0.00523	-	-	-	-	-	-	-	0.00523
Transport	-	0.00361	-	-	-	-	-	-	-	0.00361
Billing/Bill Inquiries (per line)	-	2.74	-	-	-	-	-	-	-	2.74
Directory Listing (per line)	-	-	-	-	-	-	-	-	-	-
LNP Expense (per line)	-	0.30	-	-	-	-	-	-	-	0.30
Inverse Carrier to Carrier Expense Factors	0.0000%	99.8095%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	99.8095%

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	$ 1,425	0%	100%	$ -	$ 1,425
Furniture - Expenses	$ 1,094	0%	100%	$ -	$ 1,094
Office Equipment - Capital Costs	$ 4,069	0%	100%	$ -	$ 4,069
Office Equipment - Expenses	$ 2,318	0%	100%	$ -	$ 2,318
General Purpose Computer - Capital Costs	$ 8,502	0%	100%	$ -	$ 8,502
General Purpose Computer - Expenses	$ 22,414	0%	100%	$ -	$ 22,414
Motor Vehicles - Capital Costs	$ 5,130	0%	100%	$ -	$ 5,130
Motor Vehicles - Expenses	$ 1,792	0%	100%	$ -	$ 1,792
Buildings - Capital Costs	$ 10,254	0%	100%	$ -	$ 10,254
Buildings - Expenses	$ 7,486	0%	100%	$ -	$ 7,486
Garage Work Eqpt. - Capital Costs	$ 150	0%	100%	$ -	$ 150
Garage Work Eqpt. - Expenses	$ 52	0%	100%	$ -	$ 52
Other Work Eqpt. - Capital Costs	$ 3,590	0%	100%	$ -	$ 3,590
Other Work Eqpt. - Expenses	$ 455	0%	100%	$ -	$ 455
Total General Support	$ 68,731			$ -	$ 68,731
Network Operations	$ 38,124	0%	100%	$ -	$ 38,124
Other Taxes	$ 47,848	0%	100%	$ -	$ 47,848
Variable Overhead	$ 99,525	0%	100%	$ -	$ 99,525
Totals	$ 154,704			$ -	$ 254,228

	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	$ -	$ 802,263	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 802,263
Non-Loop-related direct costs	$ -	$ 526,455	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 526,455
Total	$ -	$ 1,328,718	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,328,718
Loop Fraction	0.00%	60.38%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	60.38%
Network Operations	$ -	$ 63,142	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 63,142

	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs	
General Support - Totals				
Furniture - Capital Costs	$ 2,360	$ 1,425	$ 935	
Furniture - Expenses	$ 1,812	$ 1,094	$ 718	
Office Equipment - Capital Costs	$ 6,738	$ 4,069	$ 2,670	
Office Equipment - Expenses	$ 3,840	$ 2,318	$ 1,521	$ 54,854
General Purpose Computer - Capital Costs	$ 14,081	$ 8,502	$ 5,579	$ 58,980
General Purpose Computer - Expenses	$ 37,122	$ 22,414	$ 14,708	
Motor Vehicles - Capital Costs	$ 8,497	$ 5,130	$ 3,367	

Motor Vehicles - Expenses	$	2,969	$	1,792	$	1,176		
Buildings - Capital Costs	$	16,983	$	10,254	$	6,729		
Buildings - Expenses	$	12,398	$	7,486	$	4,912		
Garage Work Eqpt. - Capital Costs	$	249	$	150	$	99		
Garage Work Eqpt. - Expenses	$	87	$	52	$	34		
Other Work Eqpt. - Capital Costs	$	5,945	$	3,590	$	2,356		
Other Work Eqpt. - Expenses	$	753	$	455	$	298		
Total General Support	$	113,833	$	68,731	$	45,102		
Network Operations	$	63,142	$	38,124	$	25,018		
Other Taxes Calculation								
Total Direct Costs	$	1,328,718	$	802,263	$	526,455	$	1,328,718
Total Network Operations	$	63,142	$	38,124	$	25,018	$	63,142
Total General Support	$	113,833	$	68,731	$	45,102	$	138,227
Total	$	1,505,693	$	909,118	$	596,575		
Other Taxes	$	79,247	$	47,848	$	31,399	$	217,474
Total Expenses and Other Taxes	$	1,584,940	$	956,967	$	627,973		
Variable Overhead Calculation								
Variable Overhead	$	164,834	$	99,525	$	65,309		
Total Cost with Variable Overhead		1,749,774		1,056,491		693,283		

UNE Expense Asssignment			**Totals**
NID			
	per line cost	$	-
	per direct cost	$	3,132
	total	$	3,132
Distribution (DLC)			
	per line cost	$	-
	per direct cost	$	182,347
	total	$	182,347
Distribution (non-DLC)			
	per line cost	$	-
	per direct cost	$	-
	total	$	-
Concentrator (DLC)			
	per line cost	$	-
	per direct cost	$	28,457
	total	$	28,457
Concentrator (non-DLC)			
	per line cost	$	-
	per direct cost	$	-
	total	$	-
Feeder (DLC)			
	per line cost	$	-
	per direct cost	$	40,292
	total	$	40,292
Feeder (non-DLC)			

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

End Office Switching	$	250,733
Signaling	$	9,110
Dedicated Transport	$	107,044
Dedicated Transport Transmission	$	21,816
Direct Transport	$	50,846
Direct Transport Transmission	$	11,363
Common Transport	$	167,654
Common Transport Transmission	$	36,686
Tandem Switching	$	2,727
Operator Systems	$	28,493
Public Telephone	$	6,812

COST SUMMARY

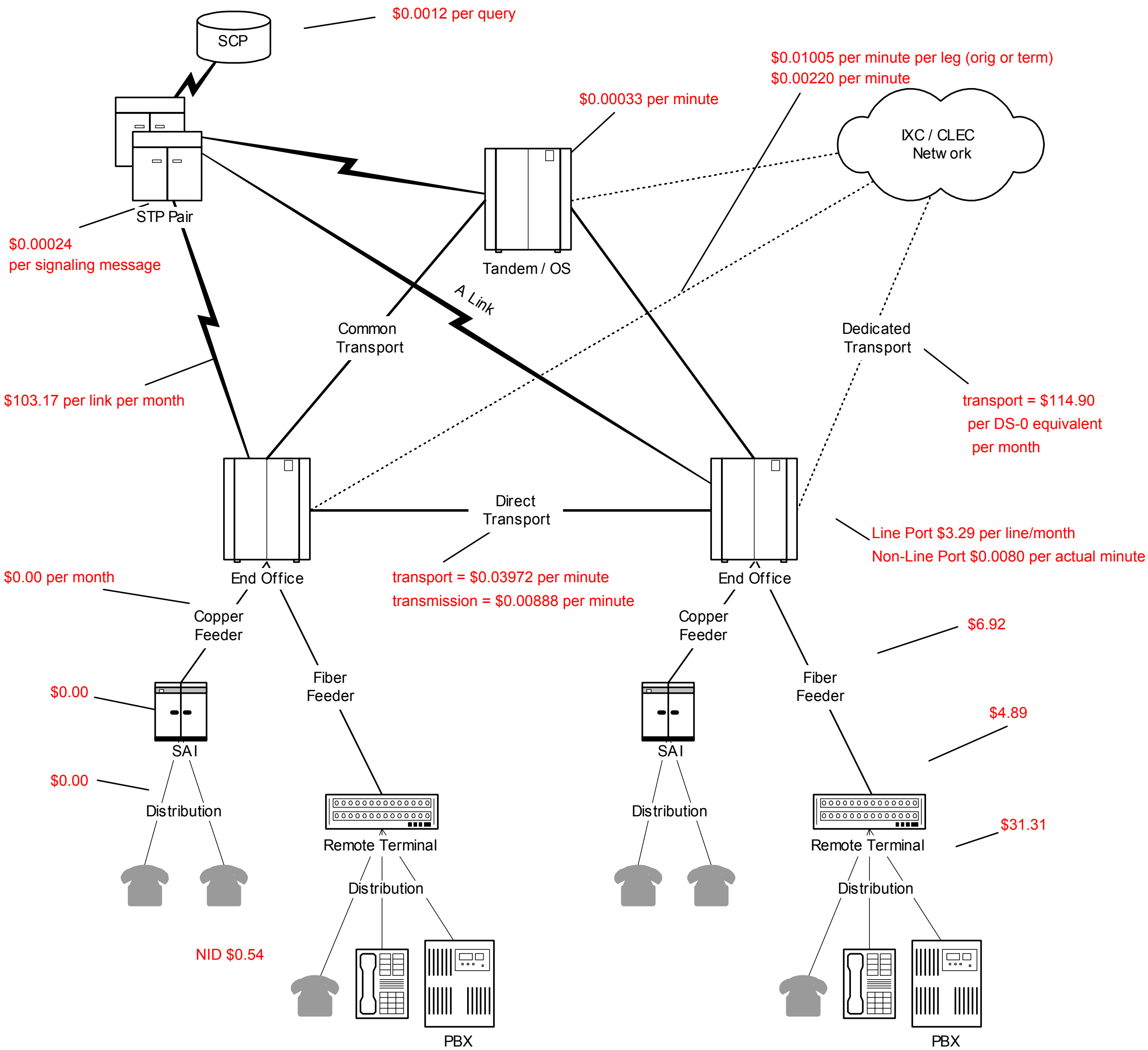
Missouri
Ozark Tel Co

Network Element		Investment *	% of total invesment		Annual Capital Cost (1)		Network Expenses (2)		Direct Expense (1 + 2)		Support Expense (3)		Subtotal (*with misc support*) (1 + 2 + 3)		Total (*with carrier-to-carrier*)
NID	$	51,582	0.8%	$	8,253	$	1,632	$	9,885	$	3,132	$	13,018	$	13,043
Distribution (DLC)		2,871,699	43.9%		462,186		113,243		575,429		182,347		757,776		759,261
Distribution (non-DLC)		-	0.0%		-		-		-		-		-		-
Distribution (all)		2,871,699	43.9%		462,186		113,243		575,429		182,347		757,776		759,261
Concentrator (DLC)		428,791	6.6%		83,169		6,633		89,801		28,457		118,258		118,490
Concentrator (non-DLC)		-	0.0%		-		-		-		-		-		-
Concentrator (all)		428,791	6.6%		83,169		6,633		89,801		28,457		118,258		118,490
Feeder (DLC)		648,646	9.9%		101,373		25,775		127,148		40,292		167,440		167,768
Feeder (non-DLC)		-	0.0%		-		-		-		-		-		-
Feeder (all)		648,646	9.9%		101,373		25,775		127,148		40,292		167,440		167,768
End Office Switching		883,101	13.5%		141,711		48,687		190,398		42,908		233,306		258,061
Signaling		33,719	0.5%		5,417		1,501		6,918		1,559		8,477		9,376
Dedicated Transport		416,313	6.4%		64,821		16,464		81,285		18,318		99,604		110,173
Dedicated Transport Transmission		78,647	1.2%		15,363		1,203		16,566		3,733		20,300		22,453
Direct Transport		197,730	3.0%		30,790		7,821		38,611		8,701		47,312		52,332
Direct Transport Transmission		40,965	0.6%		8,002		627		8,629		1,945		10,573		11,695
Common Transport		651,991	10.0%		101,523		25,788		127,311		28,691		156,002		172,555
Common Transport Transmission		132,253	2.0%		25,834		2,023		27,858		6,278		34,136		37,758
Tandem Switching		8,668	0.1%		1,350		721		2,071		467		2,537		2,806
Operator Systems		83,185	1.3%		13,126		8,511		21,637		4,172		25,809		28,549
Public Telephone		13,175	0.2%		2,694		2,479		5,172		997		6,170		6,825
													Total Network Cost		
Total	$	6,540,465	100%	$	1,065,611	$	263,107	$	1,328,718	$	371,998	$	1,700,716	$	1,771,146

* Post sharing

Unbundled Network Elements

Missouri / Ozark Tel Co



USOA Detail Breakdown of HAI Model Costs

Ozark Tel Co
Missouri

USOA	INVESTMENT DESCRIPTION	Cost $(OOO)
	Telecommunications Plant in Service	
2111	LAND	20
2112	MOTOR VEHICLES	45
2113	AIRCRAFT	
2114	SPECIAL PURPOSE VEHICLES	
2115	GARAGE WORK EQUIPMENT	1
2116	OTHER WORK EQUIPMENT	35
2121	BUILDINGS	243
2122	FURNITURE	15
2123.1	OFFICE SUPPORT EQUIPMENT	38
2123.2	COMPANY COMMUNICATIONS EQUIPMENT	
2124	GENERAL PURPOSE COMPUTERS	58
2110	*TOTAL LAND & SUPPORT ASSETS*	*454*
2212	DIGITAL ELECTRONIC SWITCHING	760
2220	OPERATOR SYSTEMS	4
2232	CIRCUIT EQUIPMENT	680
2351	PUBLIC TEL TERMINAL EQUIPMENT	13
2411	POLES	102
2421.1	AERIAL CABLE - METALLIC	72
2421.2	AERIAL CABLE - NonMETALLIC	57
2422.1	UNDERGROUND CABLE - METALLIC	0
2422.2	UNDERGROUND CABLE - NonMETALLIC	0
2423.1	BURIED CABLE - METALLIC	2,790
2423.2	BURIED CABLE - NonMETALLIC	1,912
2426.1	INTRABUILDING NETWORK CABLE - MET.	
2426.2	INTRABUILDING NETWORK CABLE - NonMET.	
2441	CONDUIT SYSTEMS	0
2410	*TOTAL CABLE & WIRE FACILITIES*	*4,933*
	Total TPIS (before amortizable assets)*	**6,844**

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

USOA	EXPENSE DESCRIPTION	Cost $(OOO)
	Plant Specific Expenses	
6112	MOTOR VEHICLES	3
6113	AIRCRAFT	1
6114	SPECIAL PURPOSE VEHICLES	0
6115	GARAGE WORK EQUIPMENT	0
6116	OTHER WORK EQUIPMENT	1
6110	*NETWORK SUPPORT*	*5*
6121	LAND & BUILDINGS	29
6122	FURNITURE	2
6123	OFFICE EQUIPMENT	5
6124	GENERAL PURPOSE COMPUTERS	44
6120	*LAND & SUPPORT ASSETS*	*80*
6212	DIGITAL ELECTRONIC SWITCHING	36
6220	OPERATOR SYSTEMS	5
6232	CIRCUIT EQUIPMENT	11
6351	PUBLIC TEL TERMINAL EQUIPMENT	2
6411	POLES	4
6421	AERIAL CABLE	8
6422	UNDERGROUND CABLE	0
6423	BURIED CABLE	182
6426	INTRABUILDING NETWORK CABLE	
6441	CONDUIT SYSTEMS	0
6410	*TOTAL CABLE & WIRE FACILITIES*	*194*
	Total Plant Specific Expenses	**334**
	Plant Nonspecific Operations	
	TOTAL NETWORK OPERATIONS SUPPORT	79
6561	DEPRECIATION TPIS	399
6623	CUSTOMER SERVICES	3
	Total Plant Nonspecific Operations	**482**
	TOTAL CORPORATE OPERATIONS	167
	TOTAL OPERATING EXPENSES	**982**
7240	OPERATING OTHER TAXES	79
	TOTAL EXPENSES & OPERATING TAXES	**1,062**

USOA	Depreciation Calculations		
	DepLife	DepFact	Dep Exp
2111			
2112	10.45	0.09589	4
2113			
2114			
2115	9.97	0.10031	0
2116	13.92	0.07189	2
2121	48.73	0.02052	5
2122	18.36	0.05449	1
2123.1	12.44	0.08052	3
2123.2	7.99	0.12517	-
2124	6.61	0.15223	9
2110			
2212	17.17	0.05827	44
2220	9.25	0.10829	0
2232	9.90	0.10108	69
2351	8.98	0.11145	1
2411	8.38	0.11972	12
2421.1	13.61	0.07355	5
2421.2	18.92	0.05286	3
2422.1	17.88	0.05596	-
2422.2	20.14	0.04966	-
2423.1	18.36	0.05450	152
2423.2	21.97	0.04551	87
2426.1	13.57	0.07377	-
2426.2	21.37	0.04681	-
2441	46.15	0.02167	-
	Total Depreciation		*399*

Network Element Disaggregations

Investment Disaggregations:

Terminal, Drop, and NID	*403,367*
Aerial-m portion	10,185
Buried-m portion	393,182

OS Trks + Signaling links	*93,920*
Circuit Eqpt. portion	15,653
Pole portion	1,345
Aerial-nm portion	2,059
Underground-nm portion	-
Buried-nm portion	74,862
Conduit portion	-

SAI	*16,750*
Aerial-m portion	-
Aerial-nm portion	569
Underground-m portion	-
Underground-nm portion	-
Buried-m portion	-
Buried-nm portion	16,181

Expense Disaggregations:

Terminal, Drop, and NID	*15,267*
Aerial portion	735
Buried portion	14,532

OS Trks + Signaling links	*3,640*
Circuit Eqpt. portion	607
Pole portion	54
Aerial-nm portion	127
Underground-nm portion	-
Buried-nm portion	2,852
Conduit portion	-

SAI	*328*
Aerial portion	11
Underground portion	-
Buried portion	317

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	$ -	$ 14,802	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,802
office equipment	-	37,831	-	-	-	-	-	-	-	37,831
general purpose computers	-	58,176	-	-	-	-	-	-	-	58,176
motor vehicles	-	44,513	-	-	-	-	-	-	-	44,513
buildings	-	112,432	-	-	-	-	-	-	-	112,432
garage work equipment	-	1,277	-	-	-	-	-	-	-	1,277
orther work equipment	-	34,688	-	-	-	-	-	-	-	34,688
										-
TOTAL	$ -	$ 303,719	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 303,719
Levelized Cost of Capital										
furniture	$ -	$ 2,360	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,360
office equipment	-	6,738	-	-	-	-	-	-	-	6,738
general purpose computers	-	14,081	-	-	-	-	-	-	-	14,081
motor vehicles	-	8,497	-	-	-	-	-	-	-	8,497
buildings	-	16,983	-	-	-	-	-	-	-	16,983
garage work equipment	-	249	-	-	-	-	-	-	-	249
orther work equipment	-	5,945	-	-	-	-	-	-	-	5,945
TOTAL	$ -	$ 54,854	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 54,854

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
Fiber Feeder										
Distribution Investment										
buried cable	$ -	$ 1,226,752	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,226,752
aerial cable	-	62,083	-	-	-	-	-	-	-	62,083
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	1,169,864	-	-	-	-	-	-	-	1,169,864
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	61,216	-	-	-	-	-	-	-	61,216
terminal	-	170,406	-	-	-	-	-	-	-	170,406
drop	-	181,379	-	-	-	-	-	-	-	181,379
										-
TOTAL	$ -	$ 2,871,699	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,871,699
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	$ -	$ 195,639	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 195,639
aerial cable	-	10,719	-	-	-	-	-	-	-	10,719
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	186,567	-	-	-	-	-	-	-	186,567
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	12,974	-	-	-	-	-	-	-	12,974
terminal	-	27,266	-	-	-	-	-	-	-	27,266
drop	-	29,022	-	-	-	-	-	-	-	29,022
TOTAL	$ -	$ 462,186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 462,186
Network Expenses										
buried cable	-	47,694	-	-	-	-	-	-	-	47,694
aerial cable	-	3,904	-	-	-	-	-	-	-	3,904
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	45,482	-	-	-	-	-	-	-	45,482
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	2,527	-	-	-	-	-	-	-	2,527
terminal	-	6,605	-	-	-	-	-	-	-	6,605
drop	-	7,030	-	-	-	-	-	-	-	7,030
TOTAL	$ -	$ 113,243	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 113,243
Summary										
Cost of Capital	$ -	$ 462,186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 462,186
Network Expense	-	113,243	-	-	-	-	-	-	-	113,243
TOTAL	$ -	$ 575,429	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 575,429

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Copper Feeder										
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	$ -	$ 1,226,752	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,226,752
aerial cable	$ -	$ 62,083	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 62,083
underground cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried trenching	$ -	$ 1,169,864	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,169,864
conduit	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
underground trenching	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
poles	$ -	$ 61,216	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 61,216
terminal	$ -	$ 170,406	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 170,406
drop	$ -	$ 181,379	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 181,379
TOTAL	$ -	$ 2,871,699	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,871,699
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	$ -	$ 195,639	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 195,639
aerial cable	$ -	$ 10,719	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,719
underground cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried trenching	$ -	$ 186,567	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 186,567
conduit	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
underground trenching	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
poles	$ -	$ 12,974	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,974
terminal	$ -	$ 27,266	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 27,266
drop	$ -	$ 29,022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 29,022
TOTAL	$ -	$ 462,186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 462,186
Network Expenses										
buried cable	$ -	$ 47,694	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 47,694
aerial cable	-	3,904	-	-	-	-	-	-	-	3,904
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	-	45,482	-	-	-	-	-	-	-	45,482
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	-	2,527	-	-	-	-	-	-	-	2,527
terminal	-	6,605	-	-	-	-	-	-	-	6,605
drop	-	7,030	-	-	-	-	-	-	-	7,030
TOTAL	$ -	$ 113,243	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 113,243
Summary										
Cost of Capital	$ -	$ 462,186	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 462,186
Network Expense	-	113,243	-	-	-	-	-	-	-	113,243
TOTAL	$ -	$ 575,429	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 575,429
NID Cost										
NID Investment	$ -	$ 51,582	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 51,582
Levelized Cost of Capital	-	8,253	-	-	-	-	-	-	-	8,253
Network Expenses	-	1,632	-	-	-	-	-	-	-	1,632
TOTAL	$ -	$ 9,885	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,885

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
Fiber Feeder										
Concentrator Investment										
DLC Investment	$ -	$ 412,041	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 412,041
SAI Investment	-	16,750	-	-	-	-	-	-	-	16,750
										$ -
TOTAL	$ -	$ 428,791	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 428,791
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
DLC	$ -	$ 80,488	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 80,488
SAI	-	2,680	-	-	-	-	-	-	-	2,680
TOTAL	$ -	$ 83,169	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,169
Network Expenses										
DLC	$ -	$ 6,304	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,304
SAI	-	328	-	-	-	-	-	-	-	328
TOTAL	$ -	$ 6,633	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,633
Summary										
Cost of Capital	$ -	$ 83,169	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,169
Network Expense	-	6,633	-	-	-	-	-	-	-	6,633
TOTAL	$ -	$ 89,801	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 89,801

	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
Copper Feeder										
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
Total										
Concentrator Investment										
DLC Investment	$ -	$ 412,041	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 412,041
SAI Investment	-	16,750	-	-	-	-	-	-	-	16,750
TOTAL	$ -	$ 428,791	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 428,791
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	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	$ -	$ 80,488	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 80,488
SAI	-	2,680	-	-	-	-	-	-	-	2,680
TOTAL	$ -	$ 83,169	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,169
Network Expenses										
DLC	$ -	$ 6,304	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,304
SAI	-	328	-	-	-	-	-	-	-	328
TOTAL	$ -	$ 6,633	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,633
Summary										
Cost of Capital	$ -	$ 83,169	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,169
Network Expense	-	6,633	-	-	-	-	-	-	-	6,633
TOTAL	$ -	$ 89,801	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 89,801

Feeder

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Fiber Feeder										
Feeder Investment										
copper u/g cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	434,618	-	-	-	-	-	-	-	434,618
fiber aerial cable	-	21,447	-	-	-	-	-	-	-	21,447
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	175,224	-	-	-	-	-	-	-	175,224
poles	-	17,357	-	-	-	-	-	-	-	17,357
TOTAL	$ -	$ 648,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 648,646
	0.00%	100.00%	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	-	67,202	-	-	-	-	-	-	-	67,202
fiber aerial cable	-	3,399	-	-	-	-	-	-	-	3,399
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	27,094	-	-	-	-	-	-	-	27,094
poles	-	3,679	-	-	-	-	-	-	-	3,679
TOTAL	$ -	$ 101,373	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,373
Network Expenses										
copper u/g cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	16,897	-	-	-	-	-	-	-	16,897
fiber aerial cable	-	1,349	-	-	-	-	-	-	-	1,349
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	6,812	-	-	-	-	-	-	-	6,812
poles	-	716	-	-	-	-	-	-	-	716
TOTAL	$ -	$ 25,775	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,775
Summary										
Cost of Capital	$ -	$ 101,373	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,373
Network Expense	-	25,775	-	-	-	-	-	-	-	25,775
TOTAL	$ -	$ 127,148	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 127,148

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Copper Feeder										
Feeder Investment										
copper u/g cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried cable	-	-	-	-	-	-	-	-	-	-
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	-	434,618	-	-	-	-	-	-	-	434,618
fiber aerial cable	-	21,447	-	-	-	-	-	-	-	21,447
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	175,224	-	-	-	-	-	-	-	175,224
poles	-	17,357	-	-	-	-	-	-	-	17,357
TOTAL	$ -	$ 648,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 648,646
	0.00%	100.00%	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	-	67,202	-	-	-	-	-	-	-	67,202
fiber aerial cable	-	3,399	-	-	-	-	-	-	-	3,399
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	27,094	-	-	-	-	-	-	-	27,094
poles	-	3,679	-	-	-	-	-	-	-	3,679
TOTAL	$ -	$ 101,373	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,373
Network Expenses										
copper u/g cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	16,897	-	-	-	-	-	-	-	16,897
fiber aerial cable	-	1,349	-	-	-	-	-	-	-	1,349
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	6,812	-	-	-	-	-	-	-	6,812
poles	-	716	-	-	-	-	-	-	-	716
TOTAL	$ -	$ 25,775	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,775
Summary										
Cost of Capital	$ -	$ 101,373	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,373
Network Expense	-	25,775	-	-	-	-	-	-	-	25,775
TOTAL	$ -	$ 127,148	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 127,148

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	$ -	$ 740,601	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 740,601
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	-	122,500	-	-	-	-	-	-	-	122,500
land	-	20,000	-	-	-	-	-	-	-	20,000
TOTAL	$ -	$ 883,101	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 883,101
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
end office switching	$ -	$ 119,842	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 119,842
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	-	18,504	-	-	-	-	-	-	-	18,504
land	-	3,365	-	-	-	-	-	-	-	3,365
TOTAL	$ -	$ 141,711	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 141,711
Network Expenses										
end office switching	$ -	$ 35,179	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 35,179
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	-	13,508	-	-	-	-	-	-	-	13,508
land	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 48,687	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 48,687
Summary										
Cost of Capital	$ -	$ 141,711	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 141,711
Network Expense	-	48,687	-	-	-	-	-	-	-	48,687
TOTAL	$ -	$ 190,398	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 190,398

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	$ -	$ 4,925	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,925
SCP wire center	-	788	-	-	-	-	-	-	-	788
STP	-	10,835	-	-	-	-	-	-	-	10,835
signaling links	-	17,171	-	-	-	-	-	-	-	17,171
TOTAL	$ -	$ 33,719	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 33,719
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
SCP	$ -	$ 797	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 797
SCP wire center	-	119	-	-	-	-	-	-	-	119
STP	-	1,753	-	-	-	-	-	-	-	1,753
signaling links	-	2,747	-	-	-	-	-	-	-	2,747
TOTAL	$ -	$ 5,417	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,417
Network Expenses										
SCP	$ -	$ 234	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 234
SCP wire center	-	87	-	-	-	-	-	-	-	87
STP	-	515	-	-	-	-	-	-	-	515
signaling links	-	666	-	-	-	-	-	-	-	666
TOTAL	$ -	$ 1,501	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,501
Summary										
Cost of Capital	$ -	$ 5,417	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,417
Network Expense	-	1,501	-	-	-	-	-	-	-	1,501
TOTAL	$ -	$ 6,918	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,918

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		-		398,307		-		-		-		-		-		-		-		398,307
aerial cable		-		10,896		-		-		-		-		-		-		-		10,896
poles		-		7,111		-		-		-		-		-		-		-		7,111
conduit		-		-		-		-		-		-		-		-		-		-
manholes		-		-		-		-		-		-		-		-		-		-
TOTAL	$	-	$	416,313	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	416,313
Levelized Cost of Capital																				
underground cable	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	-
buried cable		-		61,587		-		-		-		-		-		-		-		61,587
aerial cable		-		1,727		-		-		-		-		-		-		-		1,727
poles		-		1,507		-		-		-		-		-		-		-		1,507
conduit		-		-		-		-		-		-		-		-		-		-
manholes		-		-		-		-		-		-		-		-		-		-
TOTAL	$	-	$	64,821	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	64,821
Network Expenses																				
underground cable	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	-
buried cable		-		15,486		-		-		-		-		-		-		-		15,486
aerial cable		-		685		-		-		-		-		-		-		-		685
poles		-		293		-		-		-		-		-		-		-		293
conduit		-		-		-		-		-		-		-		-		-		-
manholes		-		-		-		-		-		-		-		-		-		-
TOTAL	$	-	$	16,464	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	16,464
Summary																				
Cost of Capital	$	-	$	64,821	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	64,821
Network Expense		-		16,464		-		-		-		-		-		-		-		16,464
TOTAL	$	-	$	81,285	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	81,285
Transmission Terminal																				
investment	$	-	$	78,647	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	78,647
levelized cost of capital		-		15,363		-		-		-		-		-		-		-		15,363
network expenses		-		1,203		-		-		-		-		-		-		-		1,203
TOTAL	$	-	$	16,566	$	-	$	-	$	-	$	-	$	-	$	-	$	-	$	16,566

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	-	189,090	-	-	-	-	-	-	-	189,090
aerial cable	-	5,225	-	-	-	-	-	-	-	5,225
poles	-	3,415	-	-	-	-	-	-	-	3,415
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 197,730	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 197,730
Levelized Cost of Capital										
underground cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried cable	-	29,238	-	-	-	-	-	-	-	29,238
aerial cable	-	828	-	-	-	-	-	-	-	828
poles	-	724	-	-	-	-	-	-	-	724
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 30,790	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 30,790
Network Expenses										
underground cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried cable	-	7,352	-	-	-	-	-	-	-	7,352
aerial cable	-	329	-	-	-	-	-	-	-	329
poles	-	141	-	-	-	-	-	-	-	141
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 7,821	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,821
Summary										
Cost of Capital	$ -	$ 30,790	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 30,790
Network Expense	-	7,821	-	-	-	-	-	-	-	7,821
TOTAL	$ -	$ 38,611	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 38,611
Transmission Terminal										
investment	$ -	$ 40,965	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,965
levelized cost of capital	-	8,002	-	-	-	-	-	-	-	8,002
network expenses	-	627	-	-	-	-	-	-	-	627
TOTAL	$ -	$ 8,629	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,629

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	-	623,570	-	-	-	-	-	-	-	623,570
aerial cable	-	17,190	-	-	-	-	-	-	-	17,190
poles	-	11,232	-	-	-	-	-	-	-	11,232
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 651,991	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 651,991
Levelized Cost of Capital										
underground cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried cable	-	96,418	-	-	-	-	-	-	-	96,418
aerial cable	-	2,724	-	-	-	-	-	-	-	2,724
poles	-	2,380	-	-	-	-	-	-	-	2,380
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 101,523	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,523
Network Expenses										
underground cable	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried cable	-	24,243	-	-	-	-	-	-	-	24,243
aerial cable	-	1,081	-	-	-	-	-	-	-	1,081
poles	-	464	-	-	-	-	-	-	-	464
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	$ -	$ 25,788	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,788
Summary										
Cost of Capital	$ -	$ 101,523	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 101,523
Network Expense	-	25,788	-	-	-	-	-	-	-	25,788
TOTAL	$ -	$ 127,311	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 127,311
Transmission Terminal										
investment	$ -	$ 132,253	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 132,253
levelized cost of capital	-	25,834	-	-	-	-	-	-	-	25,834
network expenses	-	2,023	-	-	-	-	-	-	-	2,023
TOTAL	$ -	$ 27,858	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 27,858

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	$ -	$ 3,743	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,743
wire center	-	4,925	-	-	-	-	-	-	-	4,925
TOTAL	$ -	$ 8,668	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,668
Levelized Cost of Capital										
tandem switching	$ -	$ 606	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 606
wire center	-	744	-	-	-	-	-	-	-	744
TOTAL	$ -	$ 1,350	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,350
Network Expenses										
tandem switching	$ -	$ 178	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 178
wire center	-	543	-	-	-	-	-	-	-	543
TOTAL	$ -	$ 721	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 721
Summary										
Cost of Capital	$ -	$ 1,350	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,350
Network Expense	-	721	-	-	-	-	-	-	-	721
TOTAL	$ -	$ 2,071	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,071

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	$ -	$ 1,576	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,576
OS Tandem Wire Center	-	1,970	-	-	-	-	-	-	-	1,970
OS Trunks	-	76,749	-	-	-	-	-	-	-	76,749
OS Position	-	2,890	-	-	-	-	-	-	-	2,890
TOTAL	$ -	$ 83,185	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 83,185
Levelized Cost of Capital										
OS Tandem Switching	$ -	$ 255	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 255
OS Tandem Wire Center	-	298	-	-	-	-	-	-	-	298
OS Trunks	0	11873.64519	0	0	0	0	0	0	0	11,874
OS Position	-	699	-	-	-	-	-	-	-	699
TOTAL	$ -	$ 13,126	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,126
Network Expenses										
OS Tandem Switching	$ -	$ 75	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 75
OS Tandem Wire Center	-	217	-	-	-	-	-	-	-	217
OS Trunks	-	2,975	-	-	-	-	-	-	-	2,975
OS Position	-	195	-	-	-	-	-	-	-	195
Operator Wages	-	5,049	-	-	-	-	-	-	-	5,049
TOTAL	$ -	$ 8,511	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,511
Summary										
Cost of Capital	$ -	$ 13,126	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,126
Network Expense	-	8,511	-	-	-	-	-	-	-	8,511
TOTAL	$ -	$ 21,637	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 21,637

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	$ -	$ 13,175	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,175
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital	$ -	$ 2,694	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,694
Network Expenses	$ -	$ 2,479	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,479
Summary										
Cost of Capital	$ -	$ 2,694	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,694
Network Expense	-	2,479	-	-	-	-	-	-	-	2,479
TOTAL	$ -	$ 5,172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,172

DeprecLife	1	2	3	4	5	6	7	8	9	10	11
CCCFact	1.08310	0.58381	0.41833	0.33629	0.28763	0.25565	0.23320	0.21670	0.20416	0.19439	0.18663
DeprecFact	1.00000	0.50000	0.33333	0.25000	0.20000	0.16667	0.14286	0.12500	0.11111	0.10000	0.09091
RORFact	0.05841	0.05891	0.05974	0.06065	0.06160	0.06255	0.06350	0.06446	0.06540	0.06635	0.06728
TaxGUFact	0.02469	0.02490	0.02525	0.02564	0.02604	0.02644	0.02684	0.02725	0.02765	0.02804	0.02844

COE	13.19%	**EquityF**	55.80%	**WACC**	11.25%	**Tax**	39.25%
COD	8.80%	**EquityP**	65.42%	**GrUpROR**	16.00%	**Disct**	11.25%

DeprecLife	1	2	3	4	5	6	7	8	9	10	11
NPV-EoP	0.97081	0.99366	1.01497	1.03485	1.05342	1.07077	1.08699	1.10217	1.11639	1.12971	1.14220
NPV-BoP	1.08002	1.10544	1.12915	1.15127	1.17192	1.19123	1.20928	1.22616	1.24198	1.25680	1.27069
Pmt-EoP	1.14077	0.61490	0.44061	0.35420	0.30295	0.26927	0.24562	0.22824	0.21503	0.20474	0.19657
Pmt-BoP	1.02542	0.55272	0.39605	0.31838	0.27231	0.24204	0.22078	0.20516	0.19329	0.18404	0.17669
Year											
1	1.08002	0.62004	0.46671	0.39004	0.34404	0.31338	0.29147	0.27505	0.26227	0.25205	0.24368
2		0.54001	0.41336	0.35003	0.31203	0.28670	0.26861	0.25504	0.24448	0.23604	0.22913
3			0.36001	0.31002	0.28002	0.26003	0.24575	0.23503	0.22670	0.22004	0.21458
4				0.27001	0.24801	0.23335	0.22288	0.21503	0.20892	0.20403	0.20003
5					0.21600	0.20668	0.20002	0.19502	0.19114	0.18803	0.18548
6						0.18000	0.17715	0.17502	0.17335	0.17202	0.17093
7							0.15429	0.15501	0.15557	0.15602	0.15638
8								0.13500	0.13779	0.14001	0.14183
9									0.12000	0.12401	0.12728
10										0.10800	0.11273
11											0.09818
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DeprecLife	12	13	14	15	16	17	18	19	20	21	22
CCCFact	0.18036	0.17525	0.17104	0.16754	0.16462	0.16217	0.16010	0.15836	0.15689	0.15565	0.15460
DeprecFact	0.08333	0.07692	0.07143	0.06667	0.06250	0.05882	0.05556	0.05263	0.05000	0.04762	0.04545
RORFact	0.06820	0.06912	0.07002	0.07090	0.07178	0.07264	0.07349	0.07432	0.07513	0.07593	0.07671
TaxGUFact	0.02883	0.02922	0.02960	0.02997	0.03034	0.03070	0.03106	0.03141	0.03176	0.03210	0.03243
NPV-EoP	1.15392	1.16492	1.17526	1.18498	1.19413	1.20275	1.21087	1.21853	1.22576	1.23258	1.23904
NPV-BoP	1.28373	1.29597	1.30747	1.31829	1.32847	1.33806	1.34709	1.35561	1.36365	1.37125	1.37842
Pmt-EoP	0.18997	0.18459	0.18015	0.17646	0.17339	0.17080	0.16863	0.16679	0.16524	0.16393	0.16283
Pmt-BoP	0.17076	0.16592	0.16193	0.15862	0.15585	0.15353	0.15158	0.14993	0.14854	0.14736	0.14636
1	0.23671	0.23082	0.22576	0.22138	0.21755	0.21416	0.21116	0.20847	0.20605	0.20386	0.20187
2	0.22338	0.21850	0.21433	0.21071	0.20754	0.20475	0.20227	0.20004	0.19804	0.19624	0.19459
3	0.21004	0.20619	0.20290	0.20004	0.19754	0.19534	0.19338	0.19162	0.19004	0.18861	0.18732
4	0.19670	0.19388	0.19147	0.18937	0.18754	0.18592	0.18448	0.18320	0.18204	0.18099	0.18004
5	0.18336	0.18157	0.18003	0.17870	0.17753	0.17651	0.17559	0.17477	0.17404	0.17337	0.17277
6	0.17003	0.16926	0.16860	0.16803	0.16753	0.16709	0.16670	0.16635	0.16604	0.16575	0.16549
7	0.15669	0.15695	0.15717	0.15736	0.15753	0.15768	0.15781	0.15793	0.15803	0.15813	0.15822
8	0.14335	0.14464	0.14574	0.14669	0.14753	0.14826	0.14892	0.14950	0.15003	0.15051	0.15094
9	0.13001	0.13232	0.13430	0.13602	0.13752	0.13885	0.14003	0.14108	0.14203	0.14289	0.14367
10	0.11668	0.12001	0.12287	0.12535	0.12752	0.12943	0.13113	0.13266	0.13403	0.13526	0.13639
11	0.10334	0.10770	0.11144	0.11468	0.11752	0.12002	0.12224	0.12423	0.12602	0.12764	0.12912
12	0.09000	0.09539	0.10001	0.10401	0.10751	0.11060	0.11335	0.11581	0.11802	0.12002	0.12184
13		0.08308	0.08858	0.09334	0.09751	0.10119	0.10446	0.10739	0.11002	0.11240	0.11457
14			0.07714	0.08267	0.08751	0.09177	0.09557	0.09896	0.10202	0.10478	0.10729
15				0.07200	0.07750	0.08236	0.08668	0.09054	0.09401	0.09716	0.10002
16					0.06750	0.07295	0.07778	0.08211	0.08601	0.08954	0.09274
17						0.06353	0.06889	0.07369	0.07801	0.08192	0.08547
18							0.06000	0.06527	0.07001	0.07429	0.07819
19								0.05684	0.06200	0.06667	0.07092
20									0.05400	0.05905	0.06364
21										0.05143	0.05637
22											0.04909

DeprecLife	23	24	25	26	27	28	29	30	31	32	33
CCCFact	0.15371	0.15297	0.15234	0.15182	0.15139	0.15104	0.15076	0.15053	0.15036	0.15023	0.15013
DeprecFact	0.04348	0.04167	0.04000	0.03846	0.03704	0.03571	0.03448	0.03333	0.03226	0.03125	0.03030
RORFact	0.07748	0.07823	0.07896	0.07968	0.08038	0.08106	0.08173	0.08238	0.08301	0.08363	0.08423
TaxGUFact	0.03275	0.03307	0.03338	0.03368	0.03398	0.03427	0.03455	0.03482	0.03509	0.03535	0.03560
NPV-EoP	1.24514	1.25092	1.25639	1.26158	1.26650	1.27117	1.27561	1.27982	1.28384	1.28766	1.29130
NPV-BoP	1.38521	1.39164	1.39773	1.40350	1.40897	1.41417	1.41911	1.42380	1.42826	1.43252	1.43657
Pmt-EoP	0.16190	0.16111	0.16045	0.15991	0.15946	0.15909	0.15879	0.15855	0.15836	0.15823	0.15813
Pmt-BoP	0.14552	0.14482	0.14423	0.14374	0.14333	0.14300	0.14273	0.14252	0.14235	0.14223	0.14214
1	0.20005	0.19838	0.19685	0.19543	0.19412	0.19290	0.19177	0.19071	0.18973	0.18880	0.18793
2	0.19309	0.19171	0.19045	0.18928	0.18819	0.18719	0.18625	0.18538	0.18456	0.18380	0.18308
3	0.18613	0.18504	0.18404	0.18312	0.18227	0.18147	0.18073	0.18004	0.17940	0.17879	0.17823
4	0.17917	0.17837	0.17764	0.17697	0.17634	0.17576	0.17522	0.17471	0.17424	0.17379	0.17338
5	0.17221	0.17171	0.17124	0.17081	0.17041	0.17004	0.16970	0.16937	0.16907	0.16879	0.16853
6	0.16525	0.16504	0.16484	0.16465	0.16448	0.16432	0.16418	0.16404	0.16391	0.16379	0.16368
7	0.15830	0.15837	0.15844	0.15850	0.15856	0.15861	0.15866	0.15870	0.15875	0.15879	0.15883
8	0.15134	0.15170	0.15203	0.15234	0.15263	0.15289	0.15314	0.15337	0.15359	0.15379	0.15398
9	0.14438	0.14503	0.14563	0.14619	0.14670	0.14718	0.14762	0.14803	0.14842	0.14879	0.14913
10	0.13742	0.13836	0.13923	0.14003	0.14077	0.14146	0.14210	0.14270	0.14326	0.14378	0.14428
11	0.13046	0.13169	0.13283	0.13388	0.13484	0.13574	0.13658	0.13736	0.13810	0.13878	0.13943
12	0.12350	0.12503	0.12643	0.12772	0.12892	0.13003	0.13106	0.13203	0.13293	0.13378	0.13458
13	0.11654	0.11836	0.12002	0.12156	0.12299	0.12431	0.12554	0.12670	0.12777	0.12878	0.12973
14	0.10959	0.11169	0.11362	0.11541	0.11706	0.11860	0.12003	0.12136	0.12261	0.12378	0.12488
15	0.10263	0.10502	0.10722	0.10925	0.11113	0.11288	0.11451	0.11603	0.11745	0.11878	0.12003
16	0.09567	0.09835	0.10082	0.10310	0.10521	0.10716	0.10899	0.11069	0.11228	0.11378	0.11518
17	0.08871	0.09168	0.09442	0.09694	0.09928	0.10145	0.10347	0.10536	0.10712	0.10877	0.11033
18	0.08175	0.08501	0.08801	0.09079	0.09335	0.09573	0.09795	0.10002	0.10196	0.10377	0.10548
19	0.07479	0.07834	0.08161	0.08463	0.08742	0.09002	0.09243	0.09469	0.09679	0.09877	0.10063
20	0.06783	0.07168	0.07521	0.07847	0.08149	0.08430	0.08691	0.08935	0.09163	0.09377	0.09578
21	0.06087	0.06501	0.06881	0.07232	0.07557	0.07858	0.08139	0.08402	0.08647	0.08877	0.09093
22	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	0.06801	0.07098	0.07376	0.07638
25			0.04320	0.04770	0.05186	0.05572	0.05932	0.06268	0.06582	0.06876	0.07153
26				0.04154	0.04593	0.05000	0.05380	0.05734	0.06065	0.06376	0.06668
27					0.04000	0.04429	0.04828	0.05201	0.05549	0.05876	0.06183
28						0.03857	0.04276	0.04667	0.05033	0.05376	0.05698
29							0.03724	0.04134	0.04517	0.04876	0.05213
30								0.03600	0.04000	0.04375	0.04728
31									0.03484	0.03875	0.04243
32										0.03375	0.03758
33											0.03273

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
CCCFact	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	0.02941	0.02857	0.02778	0.02703	0.02632	0.02564	0.02500	0.02439	0.02381	0.02326	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
RORFact	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
TaxGUFact	0.03585	0.03609	0.03632	0.03655	0.03677	0.03699	0.03720	0.03740	0.03760	0.03779	0.03797	0.03815	0.03833	0.03850	0.03866	0.03883	0.03898	0.03913	0.03928	0.03942	0.03956	0.03970	0.03983	0.03996	0.04008	0.04020	0.04032	0.04043	0.04054	0.04065	0.04076	0.04086	0.04096
COE																																	
COD																																	
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
Pmt-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
Pmt-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	0.16835	0.16819	0.16805	0.16790	0.16776	0.16763	0.16750	0.16738	0.16726	0.16714	0.16703	0.16692	0.16682	0.16671
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	0.15909	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
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	0.15569	0.15579	0.15587	0.15596	0.15604	0.15612	0.15620	0.15627	0.15634	0.15641	0.15647	0.15653	0.15659	0.15665	0.15671	0.15676	0.15682	0.15687	0.15692	0.15697	0.15701
9	0.14945	0.14975	0.15004	0.15031	0.15056	0.15081	0.15104	0.15126	0.15147	0.15167	0.15186	0.15204	0.15221	0.15238	0.15254	0.15269	0.15284	0.15298	0.15312	0.15325	0.15337	0.15350	0.15361	0.15373	0.15383	0.15394	0.15404	0.15414	0.15424	0.15433	0.15442	0.15450	0.15459
10	0.14474	0.14518	0.14559	0.14598	0.14635	0.14670	0.14704	0.14735	0.14766	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	0.14422	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	0.14907	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	0.13103	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	0.12503	0.12565	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	0.10002	0.10156	0.10302	0.10441	0.10574	0.10700	0.10821	0.10936	0.11046	0.11152	0.11253	0.11350	0.11443	0.11532	0.11618	0.11701	0.11781	0.11858	0.11932	0.12003	0.12072	0.12139	0.12203	0.12266	0.12326	0.12384	0.12441	0.12496	0.12549
22	0.08825	0.09030	0.09224	0.09407	0.09581	0.09746	0.09902	0.10051	0.10193	0.10328	0.10457	0.10580	0.10698	0.10811	0.10919	0.11023	0.11123	0.11218	0.11311	0.11399	0.11484	0.11567	0.11646	0.11722	0.11796	0.11867	0.11936	0.12003	0.12068	0.12130	0.12191	0.12249	0.12306
23	0.08355	0.08573	0.08780	0.08975	0.09160	0.09335	0.09502	0.09661	0.09812	0.09956	0.10093	0.10225	0.10350	0.10471	0.10586	0.10697	0.10803	0.10905	0.11003	0.11097	0.11188	0.11276	0.11360	0.11442	0.11520	0.11596	0.11670	0.11741	0.11810	0.11876	0.11941	0.12003	0.12064
24	0.07884	0.08116	0.08335	0.08542	0.08739	0.08925	0.09102	0.09270	0.09431	0.09584	0.09730	0.09869	0.10002	0.10130	0.10252	0.10370	0.10483	0.10591	0.10695	0.10795	0.10892	0.10985	0.11074	0.11161	0.11244	0.11325	0.11403	0.11478	0.11551	0.11622	0.11691	0.11757	0.11821
25	0.07413	0.07659	0.07890	0.08110	0.08318	0.08515	0.08702	0.08880	0.09050	0.09211	0.09366	0.09513	0.09654	0.09790	0.09919	0.10043	0.10162	0.10277	0.10387	0.10493	0.10595	0.10694	0.10788	0.10880	0.10968	0.11054	0.11136	0.11216	0.11293	0.11368	0.11440	0.11511	0.11579
26	0.06942	0.07201	0.07446	0.07677	0.07896	0.08104	0.08302	0.08490	0.08669	0.08839	0.09002	0.09158	0.09307	0.09449	0.09586	0.09717	0.09842	0.09963	0.10079	0.10191	0.10299	0.10403	0.10503	0.10599	0.10692	0.10782	0.10869	0.10954	0.11035	0.11114	0.11190	0.11264	0.11336
27	0.06472	0.06744	0.07001	0.07245	0.07475	0.07694	0.07902	0.08099	0.08288	0.08467	0.08638	0.08802	0.08959	0.09109	0.09252	0.09390	0.09522	0.09649	0.09772	0.09889	0.10002	0.10112	0.10217	0.10318	0.10416	0.10511	0.10603	0.10691	0.10777	0.10860	0.10940	0.11018	0.11094
28	0.06001	0.06287	0.06557	0.06812	0.07054	0.07283	0.07502	0.07709	0.07906	0.08095	0.08275	0.08446	0.08611	0.08768	0.08919	0.09063	0.09202	0.09336	0.09464	0.09587	0.09706	0.09821	0.09931	0.10038	0.10140	0.10240	0.10336	0.10429	0.10519	0.10606	0.10690	0.10772	0.10851
29	0.05530	0.05829	0.06112	0.06379	0.06633	0.06873	0.07101	0.07319	0.07525	0.07723	0.07911	0.08091	0.08263	0.08427	0.08585	0.08737	0.08882	0.09022	0.09156	0.09285	0.09410	0.09530	0.09645	0.09757	0.09865	0.09969	0.10069	0.10167	0.10261	0.10352	0.10440	0.10526	0.10609
30	0.05059	0.05372	0.05668	0.05947	0.06212	0.06463	0.06701	0.06928	0.07144	0.07350	0.07547	0.07735	0.07915	0.08087	0.08252	0.08410	0.08562	0.08708	0.08848	0.08983	0.09113	0.09239	0.09359	0.09476	0.09589	0.09697	0.09802	0.09904	0.10003	0.10098	0.10190	0.10280	0.10366
31	0.04589	0.04915	0.05223	0.05514	0.05790	0.06052	0.06301	0.06538	0.06763	0.06978	0.07183	0.07379	0.07567	0.07746	0.07918	0.08083	0.08242	0.08394	0.08540	0.08681	0.08817	0.08948	0.09074	0.09195	0.09313	0.09426	0.09536	0.09642	0.09744	0.09844	0.09940	0.10033	0.10124
32	0.04118	0.04458	0.04778	0.05082	0.05369	0.05642	0.05901	0.06147	0.06382	0.06606	0.06820	0.07024	0.07219	0.07406	0.07585	0.07757	0.07922	0.08080	0.08233	0.08379	0.08521	0.08657	0.08788	0.08914	0.09037	0.09155	0.09269	0.09379	0.09486	0.09590	0.09690	0.09787	0.09881
33	0.03647	0.04000	0.04334	0.04649	0.04948	0.05232	0.05501	0.05757	0.06001	0.06234	0.06456	0.06668	0.06871	0.07065	0.07252	0.07430	0.07602	0.07766	0.07925	0.08077	0.08224	0.08366	0.08502	0.08634	0.08761	0.08884	0.09002	0.09117	0.09228	0.09336	0.09440	0.09541	0.09639
34	0.03177	0.03543	0.03889	0.04217	0.04527	0.04821	0.05101	0.05367	0.05620	0.05862	0.06092	0.06312	0.06523	0.06725	0.06918	0.07104	0.07282	0.07453	0.07617	0.07775	0.07928	0.08075	0.08216	0.08353	0.08485	0.08612	0.08735	0.08855	0.08970	0.09082	0.09190	0.09295	0.09396
35		0.03086	0.03445	0.03784	0.04106	0.04411	0.04701	0.04976	0.05239	0.05489	0.05728	0.05957	0.06175	0.06384	0.06585	0.06777	0.06962	0.07139	0.07309	0.07473	0.07631	0.07784	0.07930	0.08072	0.08209	0.08341	0.08469	0.08592	0.08712	0.08828	0.08940	0.09048	0.09154
36			0.03000	0.03352	0.03685	0.04000	0.04301	0.04586	0.04858	0.05117	0.05365	0.05601	0.05827	0.06044	0.06251	0.06450	0.06641	0.06825	0.07002	0.07171	0.07335	0.07493	0.07645	0.07791	0.07933	0.08070	0.08202	0.08330	0.08454	0.08574	0.08690	0.08802	0.08911
37				0.02919	0.03263	0.03590	0.03900	0.04196	0.04477	0.04745	0.05001	0.05245	0.05479	0.05703	0.05918	0.06124	0.06321	0.06511	0.06694	0.06869	0.07039	0.07202	0.07359	0.07511	0.07657	0.07798	0.07935	0.08068	0.08196	0.08320	0.08440	0.08556	0.08669
38					0.02842	0.03180	0.03500	0.03805	0.04096	0.04373	0.04637	0.04890	0.05131	0.05363	0.05584	0.05797	0.06001	0.06197	0.06386	0.06567	0.06742	0.06911	0.07073	0.07230	0.07381	0.07527	0.07668	0.07805	0.07937	0.08065	0.08190	0.08310	0.08426
39						0.02769	0.03100	0.03415	0.03715	0.04001	0.04273	0.04534	0.04783	0.05022	0.05251	0.05470	0.05681	0.05884	0.06078	0.06265	0.06446	0.06620	0.06787	0.06949	0.07105	0.07256	0.07402	0.07543	0.07679	0.07811	0.07939	0.08064	0.08184
40							0.02700	0.03025	0.03334	0.03628	0.03910	0.04178	0.04435	0.04682	0.04918	0.05144	0.05361	0.05570	0.05770	0.05964	0.06149	0.06329	0.06501	0.06668	0.06829	0.06985	0.07135	0.07280	0.07421	0.07557	0.07689	0.07817	0.07941
41								0.02634	0.02953	0.03256	0.03546	0.03823	0.04088	0.04341	0.04584	0.04817	0.05041	0.05256	0.05463	0.05662	0.05853	0.06038	0.06216	0.06387	0.06553	0.06713	0.06868	0.07018	0.07163	0.07303	0.07439	0.07571	0.07699
42									0.02571	0.02884	0.03182	0.03467	0.03740	0.04001	0.04251	0.04491	0.04721	0.04942	0.05155	0.05360	0.05557	0.05747	0.05930	0.06107	0.06277	0.06442	0.06601	0.06756	0.06905	0.07049	0.07189	0.07325	0.07456
43										0.02512	0.02818	0.03111	0.03392	0.03660	0.03917	0.04164	0.04401	0.04628	0.04847	0.05058	0.05260	0.05456	0.05644	0.05826	0.06001	0.06171	0.06335	0.06493	0.06647	0.06795	0.06939	0.07079	0.07214
44											0.02455	0.02756	0.03044	0.03320	0.03584	0.03837	0.04081	0.04314	0.04539	0.04756	0.04964	0.05165	0.05358	0.05545	0.05725	0.05900	0.06068	0.06231	0.06389	0.06541	0.06689	0.06832	0.06971
45												0.02400	0.02696	0.02979	0.03250	0.03511	0.03761	0.04001	0.04231	0.04454	0.04668	0.04874	0.05072	0.05264	0.05449	0.05628	0.05801	0.05969	0.06130	0.06287	0.06439	0.06586	0.06729
46													0.02348	0.02638	0.02917	0.03184	0.03440	0.03687	0.03924	0.04152	0.04371	0.04583	0.04787	0.04983	0.05173	0.05357	0.05535	0.05706	0.05872	0.06033	0.06189	0.06340	0.06486
47														0.02298	0.02583	0.02857	0.03120	0.03373	0.03616	0.03850	0.04075	0.04292	0.04501	0.04703	0.04898	0.05086	0.05268	0.05444	0.05614	0.05779	0.05939	0.06094	0.06244
48															0.02250	0.02531	0.02800	0.03059	0.03308	0.03548	0.03778	0.04001	0.04215	0.04422	0.04622	0.04815	0.05001	0.05181	0.05356	0.05525	0.05689	0.05847	0.06001
49																0.02204	0.02480	0.02745	0.03000	0.03246	0.03482	0.03710	0.03929	0.04141	0.04346	0.04543	0.04734	0.04919	0.05098	0.05271	0.05439	0.05601	0.05759
50																	0.02160	0.02432	0.02693	0.02944	0.03186	0.03419	0.03643	0.03860	0.04070	0.04272	0.04468	0.04657	0.04840	0.05017	0.05189	0.05355	0.05516
51																		0.02118	0.02385	0.02642	0.02889	0.03128	0.03358	0.03580	0.03794	0.04001	0.04201	0.04394	0.04582	0.04763	0.04939	0.05109	0.05274
52																			0.02077	0.02340	0.02593	0.02837	0.03072	0.03299	0.03518	0.03729	0.03934	0.04132	0.04323	0.04509	0.04688	0.04863	0.05031
53																				0.02038	0.02296	0.02546	0.02786	0.03018	0.03242	0.03458	0.03667	0.03870	0.04065	0.04255	0.04438	0.04616	0.04789
54																					0.02000	0.02255	0.02500	0.02737	0.02966	0.03187	0.03401	0.03607	0.03807	0.04001	0.04188	0.04370	0.04546
55																						0.01964	0.02214	0.02456	0.02690	0.02916	0.03134	0.03345	0.03549	0.03747	0.03938	0.04124	0.04304
56																							0.01929	0.02176	0.02414	0.02644	0.02867	0.03082	0.03291	0.03493	0.03688	0.03878	0.04061
57																								0.01895	0.02138	0.02373	0.02600	0.02820	0.03033	0.03239	0.03438	0.03631	0.03819
58																									0.01862	0.02102	0.02334	0.02558	0.02775	0.02985	0.03188	0.03385	0.03576
59																										0.01831	0.02067	0.02295	0.02516	0.02731	0.02938	0.03139	0.03334
60																											0.01800	0.02033	0.02258	0.02476	0.02688	0.02893	0.03091
61																												0.01771	0.02000	0.02222	0.02438	0.02646	0.02849
62																													0.01742	0.01968	0.02188	0.02400	0.02606
63																														0.01714	0.01938	0.02154	0.02364
64																															0.01688	0.01908	0.02121
65																																0.01662	0.01879
66																																	0.01636
67																																	
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DeprecLife	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-BoP	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
Pmt-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
Pmt-BoP	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	0.15953	0.15954	0.15954	0.15955
8	0.15706	0.15710	0.15714	0.15719	0.15723	0.15727	0.15730	0.15734	0.15738	0.15741	0.15745	0.15748	0.15751	0.15754	0.15757
9	0.15467	0.15475	0.15483	0.15490	0.15497	0.15504	0.15511	0.15518	0.15524	0.15531	0.15537	0.15543	0.15549	0.15554	0.15560
10	0.15228	0.15239	0.15251	0.15261	0.15272	0.15282	0.15292	0.15302	0.15311	0.15320	0.15329	0.15338	0.15346	0.15354	0.15362
11	0.14989	0.15004	0.15019	0.15033	0.15046	0.15060	0.15073	0.15085	0.15098	0.15109	0.15121	0.15132	0.15143	0.15154	0.15165
12	0.14750	0.14769	0.14787	0.14804	0.14821	0.14837	0.14853	0.14869	0.14884	0.14899	0.14913	0.14927	0.14941	0.14954	0.14967
13	0.14511	0.14533	0.14555	0.14575	0.14596	0.14615	0.14634	0.14653	0.14671	0.14688	0.14705	0.14722	0.14738	0.14754	0.14770
14	0.14273	0.14298	0.14323	0.14347	0.14370	0.14393	0.14415	0.14436	0.14457	0.14478	0.14498	0.14517	0.14536	0.14554	0.14572
15	0.14034	0.14063	0.14091	0.14118	0.14145	0.14171	0.14196	0.14220	0.14244	0.14267	0.14290	0.14312	0.14333	0.14354	0.14374
16	0.13795	0.13827	0.13859	0.13889	0.13919	0.13948	0.13976	0.14004	0.14031	0.14056	0.14082	0.14106	0.14130	0.14154	0.14177
17	0.13556	0.13592	0.13627	0.13661	0.13694	0.13726	0.13757	0.13788	0.13817	0.13846	0.13874	0.13901	0.13928	0.13954	0.13979
18	0.13317	0.13357	0.13395	0.13432	0.13468	0.13504	0.13538	0.13571	0.13604	0.13635	0.13666	0.13696	0.13725	0.13754	0.13782
19	0.13078	0.13121	0.13163	0.13204	0.13243	0.13281	0.13319	0.13355	0.13390	0.13425	0.13458	0.13491	0.13523	0.13554	0.13584
20	0.12839	0.12886	0.12931	0.12975	0.13018	0.13059	0.13099	0.13139	0.13177	0.13214	0.13250	0.13286	0.13320	0.13354	0.13386
21	0.12600	0.12650	0.12699	0.12746	0.12792	0.12837	0.12880	0.12922	0.12964	0.13004	0.13043	0.13081	0.13118	0.13154	0.13189
22	0.12362	0.12415	0.12467	0.12518	0.12567	0.12615	0.12661	0.12706	0.12750	0.12793	0.12835	0.12875	0.12915	0.12954	0.12991
23	0.12123	0.12180	0.12235	0.12289	0.12341	0.12392	0.12442	0.12490	0.12537	0.12582	0.12627	0.12670	0.12712	0.12753	0.12794
24	0.11884	0.11944	0.12003	0.12060	0.12116	0.12170	0.12222	0.12274	0.12323	0.12372	0.12419	0.12465	0.12510	0.12553	0.12596
25	0.11645	0.11709	0.11771	0.11832	0.11891	0.11948	0.12003	0.12057	0.12110	0.12161	0.12211	0.12260	0.12307	0.12353	0.12398
26	0.11406	0.11474	0.11539	0.11603	0.11665	0.11725	0.11784	0.11841	0.11897	0.11951	0.12003	0.12055	0.12105	0.12153	0.12201
27	0.11167	0.11238	0.11307	0.11374	0.11440	0.11503	0.11565	0.11625	0.11683	0.11740	0.11795	0.11849	0.11902	0.11953	0.12003
28	0.10928	0.11003	0.11075	0.11146	0.11214	0.11281	0.11345	0.11408	0.11470	0.11529	0.11588	0.11644	0.11699	0.11753	0.11806
29	0.10689	0.10768	0.10843	0.10917	0.10989	0.11058	0.11126	0.11192	0.11256	0.11319	0.11380	0.11439	0.11497	0.11553	0.11608
30	0.10450	0.10532	0.10611	0.10689	0.10763	0.10836	0.10907	0.10976	0.11043	0.11108	0.11172	0.11234	0.11294	0.11353	0.11410
31	0.10212	0.10297	0.10380	0.10460	0.10538	0.10614	0.10688	0.10760	0.10830	0.10898	0.10964	0.11029	0.11092	0.11153	0.11213
32	0.09973	0.10061	0.10148	0.10231	0.10313	0.10392	0.10469	0.10543	0.10616	0.10687	0.10756	0.10823	0.10889	0.10953	0.11015
33	0.09734	0.09826	0.09916	0.10003	0.10087	0.10169	0.10249	0.10327	0.10403	0.10476	0.10548	0.10618	0.10686	0.10753	0.10818
34	0.09495	0.09591	0.09684	0.09774	0.09862	0.09947	0.10030	0.10111	0.10189	0.10266	0.10340	0.10413	0.10484	0.10553	0.10620
35	0.09256	0.09355	0.09452	0.09545	0.09636	0.09725	0.09811	0.09894	0.09976	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	0.09553	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	0.09268	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	0.07083	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	0.05708	0.05843	0.05975	0.06104	0.06229	0.06352	0.06471
56	0.04240	0.04413	0.04581	0.04744	0.04902	0.05057	0.05207	0.05353	0.05495	0.05633	0.05768	0.05899	0.06027	0.06151	0.06273
57	0.04001	0.04177	0.04349	0.04515	0.04677	0.04834	0.04987	0.05136	0.05281	0.05422	0.05560	0.05694	0.05824	0.05951	0.06076
58	0.03762	0.03942	0.04117	0.04287	0.04452	0.04612	0.04768	0.04920	0.05068	0.05212	0.05352	0.05488	0.05622	0.05751	0.05878
59	0.03523	0.03707	0.03885	0.04058	0.04226	0.04390	0.04549	0.04704	0.04854	0.05001	0.05144	0.05283	0.05419	0.05551	0.05680
60	0.03284	0.03471	0.03653	0.03829	0.04001	0.04168	0.04330	0.04487	0.04641	0.04791	0.04936	0.05078	0.05216	0.05351	0.05483
61	0.03045	0.03236	0.03421	0.03601	0.03775	0.03945	0.04110	0.04271	0.04428	0.04580	0.04728	0.04873	0.05014	0.05151	0.05285
62	0.02806	0.03000	0.03189	0.03372	0.03550	0.03723	0.03891	0.04055	0.04214	0.04369	0.04520	0.04668	0.04811	0.04951	0.05088
63	0.02567	0.02765	0.02957	0.03143	0.03325	0.03501	0.03672	0.03839	0.04001	0.04159	0.04313	0.04463	0.04609	0.04751	0.04890
64	0.02329	0.02530	0.02725	0.02915	0.03099	0.03278	0.03453	0.03622	0.03787	0.03948	0.04105	0.04257	0.04406	0.04551	0.04692
65	0.02090	0.02294	0.02493	0.02686	0.02874	0.03056	0.03233	0.03406	0.03574	0.03738	0.03897	0.04052	0.04203	0.04351	0.04495
66	0.01851	0.02059	0.02261	0.02457	0.02648	0.02834	0.03014	0.03190	0.03361	0.03527	0.03689	0.03847	0.04001	0.04151	0.04297
67	0.01612	0.01824	0.02029	0.02229	0.02423	0.02611	0.02795	0.02973	0.03147	0.03316	0.03481	0.03642	0.03798	0.03951	0.04100
68		0.01588	0.01797	0.02000	0.02197	0.02389	0.02576	0.02757	0.02934	0.03106	0.03273	0.03437	0.03596	0.03751	0.03902
69			0.01565	0.01772	0.01972	0.02167	0.02356	0.02541	0.02720	0.02895	0.03065	0.03231	0.03393	0.03551	0.03704
70				0.01543	0.01747	0.01945	0.02137	0.02325	0.02507	0.02685	0.02858	0.03026	0.03190	0.03351	0.03507
71					0.01521	0.01722	0.01918	0.02108	0.02294	0.02474	0.02650	0.02821	0.02988	0.03151	0.03309
72						0.01500	0.01699	0.01892	0.02080	0.02263	0.02442	0.02616	0.02785	0.02951	0.03112
73							0.01479	0.01676	0.01867	0.02053	0.02234	0.02411	0.02583	0.02750	0.02914
74								0.01459	0.01653	0.01842	0.02026	0.02205	0.02380	0.02550	0.02716
75									0.01440	0.01632	0.01818	0.02000	0.02177	0.02350	0.02519
76										0.01421	0.01610	0.01795	0.01975	0.02150	0.02321
77											0.01403	0.01590	0.01772	0.01950	0.02124
78												0.01385	0.01570	0.01750	0.01926
79													0.01367	0.01550	0.01729
80														0.01350	0.01531
81															0.01333

EXPENSE MODULE INPUTS

		User Inputs	Calculations	
State		Missouri		
Company		Ozark Tel Co		
Cost of Capital Inputs				
Cost of Debt		8.80%		
Debt fraction		44.20%		
Cost of Equity		13.19%		
Equity fraction			55.80%	
Weighted equity fraction			65.42%	
Overall Cost of Capital			11.25%	
Traffic Inputs				
local DEMs, thousands		23,095		
intrastate DEMs, thousands		4,931		
interstate DEMs, thousands		4,868	32,894	total DEMs, thousands
Local call completion fraction		70.00%		
Total local calls attempted		5,233	3,663	Total local calls completed
Total intraLATA calls completed		313		
Total interLATA calls completed - intrastate		315		
Total interLATA calls completed - interstate		670		
local DEM fraction		68.21%		
local interoffice traffic fraction		12.04%		
D link investment, per link	$	-		
Bus/Res DEMs ratio (local, state, interstate)		110%	200%	300%
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		4		
Average trunk utilization		30.00%		
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		

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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	$	62,083	$	4,560
2421-nm	Aerial Cable - Non-Metall	22.24	-0.1753	18.92	$	38,637	$	2,042
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	$	1,226,752	$	66,818
2423-nm	Buried - Non-Metallic	23.86	-0.0858	21.97	$	1,645,585	$	74,886
2426-m	Intrabuilding - Metallic	15.71	-0.1574	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	$	1,288,834	$	71,378
Average Non-Metallic Cable (calculated)				21.89	$	1,684,221	$	76,928

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	4,931,000		
Interstate Toll DEMs	4,868,000		
trunk port usage	56,633,438		
trk-min/mo	10,044		
interLATA ded. trunks	81		
Common Transport MOU			
Local	54,014	w/o OS usage	
Intrastate Toll	4,931,000		
Interstate Toll	4,868,000		
	9,853,014		
Intrastate IntraLATA Calls	313	49.84%	SOCCC message counts
Intrastate InterLATA Calls	315	50.16%	
	628		

Calculation of EO Usage

Local DEMs, incl OS	23,095,000	70.2%	of total DEMs	
Intraoffice Local DEMs	20,315,092			
Intraoffice Local Actual Min	10,157,546		**Dedicated Transport MOU**	
Interoffice Local Actual Min	2,779,908	per end	Local, w/o OS	1,323,353
Intrastate Toll Actual Min	4,931,000		IntraLATA Toll	-
Interstate Toll Actual Min	4,868,000		InterLATA Toll	9,799,000
	22,736,454			11,122,353
Tandem Switch MOU			Dedicated Trunk-SW	92
Local	27,007			
IntraLATA Toll	1,228,824			
InterLATA Toll	7,341,352			
	8,597,183			

TRANSFORMED REGULATED		1995	COMPANY NAME:	ICO		
		OTHER TAXES & UNCOLLECTIBLES CALCULATION		EXPENSES		NET REVENUES
		7230	OPERATING STATE & LOCAL INCOME TAX-NET	13		
		7240	OPERATING OTHER TAXES	54		
		5300	UNCOLLECTIBLE REVENUES			20
		530	NET REVENUES			1,294
			GROSS REVENUES (5300 + 530)			1,314
			UNCLL/GROSS REV			0.015532
		(5300-4040(p..r))/(5081+5:	UNCLL RETAIL RATE			2.27%
		(4040(p))/(5082..5084)	UNCLL WHOLESALE RATE			0.43%
EXP	INV	PLANT SPECIFIC OPERATIONS EXPENSES		A. EXPENSES	B. INVESTMENTS	C. EXP/INV (A/B)
		TPIS GENERAL SUPPORT				
	2111	2111	LAND		18	0.000000
	2121	2121	BUILDINGS		257	0
6121			TOTAL LAND & BUILDINGS	28	274	0.103180
6112	2112	2112	MOTOR VEHICLES	2	44	0.034751
6113	2113	2113	AIRCRAFT	1	2	0.312456
6114	2114	2114	SPECIAL PURPOSE VEHICLES	0	0	0.014245
6115	2115	2115	GARAGE WORK EQUIPMENT	0	1	0.035334
6116	2116	2116	OTHER WORK EQUIPMENT	0	35	0.011313
6122	2122	2122	FURNITURE	2	17	0.122429
6123	2123	2123	OFFICE EQUIPMENT	4	43	0.101497
6124	2124	2124	GENERAL PRUPOSE COMPUTERS	42	66	0.638091156
6120	2110	2110	TOTAL LAND & SUPPORT ASSETS	77	483	0.15965268
		TPIS - CENTRAL OFFICE SWITCHING				
		-	-			
6211	2211	2211	ANALOG ELECT SWITCH	1	28	0.045322
6212	2212	2212	DIGITAL ELECTRONIC SWITCHING	48	845	0.056899071
6220	2220	2220	OPERATOR SYSTEMS	1	13	0.06751836
6210	2210	22102210221022102210	CENTRAL OFFICE SWITCH	50	886	0.056940858
		TPIS - CENTRAL OFFICE TRANSMISSION				
		-	-			
6232	2232	2232	CIRCUIT EQUIPMENT	9	582	0.016263483
6230	2230	2230	TRANSMISSION	10	609	0.01663194
		TPIS - INFORMATION ORIG/TERM				
		-	-			
6311	2311	2311	STATION APPARATUS	0	0	0.382353
	2321	2321	CUSTOMER PREMISES WIRING	0	0	#DIV/0!
6341	2341	2341	LARGE PRIVATE BRANCH EXCHANGE	0	0	4.500000
6351	2351	2351	PUBLIC TEL TERMINAL EQUIPMENT	3	18	0.188118
6362	2362	2362	OTHER TERMINAL EQUIPMENT	6	32	0.176349542
6310	2310	2310	TOTAL INFORMATION ORIG/TERM	9	51	0.182377792
		TPIS - CABLE & WIRE FACILITIES				
		-	-			
6411	2411	2411	POLES	4	100	0.041273
6421	2421	2421	AERIAL CABLE	30	473	0.062887
6422	2422	2422	UNDERGROUND CABLE	6	301	0.019603
6423	2423	2423	BURIED CABLE	33	837	0.038878
6441	2441	2441	CONDUIT SYSTEMS	1	171	0.003678698
6410	2410	2410	TOTAL CABLE & WIRE FACILITIES	74	1,903	0.038842
	240	240	TOTAL TPIS(BEFORE AMORTIZABLE ASSETS) (2110+2210+2220+2230+2310+2410)	147	3,962	0.037082996
		PLANT NON-SPECIFIC OPERATIONS EXPENSES		A. EXPENSES	B. TPIS INVESTMENT	C. EXP/INV (A/B)
		=	=	=	=	=
6512	240	6512	PROVISIONING EXPENSES	1	3,962	0.000300
6531	240	6531	POWER EXPENSES	6	3,962	0.001623
6532	240	6532	NETWORK ADMINISTRATION	16	3,962	0.004102
6533	240	6533	TESTING	17	3,962	0.004252
6534	240	6534	PLANT OPERATIONS ADMINISTRATION	25	3,962	0.006391
6535	240	6535	ENGINEERING	13	3,962	0.003373
6540	240	6540	ACCESS EXPENSE	22	3,962	0.005573799
6530	240	6530	TOTAL NETWORK OPERATIONS EXPENSES	78	3,962	0.019740601
6561	240	65616561656165616561	DEPRECIATION -TPISDEPRECIATION -TPIS	276 276 276 276 276	3,962 3,962 3,962 3,962	0.0696775250.069677525
		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	1,903	0.001041087
		CUSTOMER OPERATIONS EXPENSES		A. EXPENSES	B. NET REVENUES	C. EXP/NET REV (A/B)
		=	=	=	=	=
6611		6611	PRODUCT MANAGEMENT	11		CALC
6612		6612	SALES	21		CALC
6613		6613	PRODUCT ADVERTISING	7		CALC
6610		6610	TOTAL MARKETING EXPENSES	40		CALC
6621		6621	CALL COMPLETION SERVICE	9		CALC
6622		6622	NUMBER SERVICES	22		CALC
6623		6623	CUSTOMER SERVICES	71		CALC

				A. EXPENSES	B. REVENUES	C. EXP/REV (A/B)
6620		6620	TOTAL SERVICES EXPENSES	102		CALC
*		700	TOTAL CUSTOMER OPERATIONS EXPENSE (6610 + 6620)	141		CALC
	CORPORATE OPERATIONS EXPENSES			A. EXPENSES	B. REVENUES	C. EXP/REV (A/B)
	=	=		=	=	=
6711		6711	EXECUTIVE	5		CALC
6712		6712	PLANNING	3		CALC
6710		6710	TOTAL EXECUTIVE & PLANNING	8		CALC
6721		6721	ACCOUNTING & FINANCE	16		CALC
6722		6722	EXTERNAL RELATIONS	10		CALC
6723		6723	HUMAN RESOURCES	12		CALC
6724		6724	INFORMATION MANAGEMENT	44		CALC
6725		6725	LEGAL	4		CALC
6726		6726	PROCUREMENT	2		CALC
6727		6727	RESEARCH & DEVELOPMENT	3		CALC
6728		6728	OTHER GENERAL & ADMINISTRATIVE	38		CALC
6720		6720	TOTAL GENERAL & ADMINISTRATIVE	128		CALC
		710	TOTAL CORPORATE OPERATIONS EXPENSE (6710 + 6720 + 6790)	168		CALC
		720	TOTAL OPERATING EXPENSES			CALC
			DEM - LOCAL	23,096		
			DEM - INTRASTATE	4,931		
			DEM - INTERSTATE	4,869		
			MESSAGES - INTRALATA	313		
			MESSAGES - INTERLATA - interstate	670		
			MESSAGES - INTERLATA - intrastate	315.3055414		
	4308 (EC)		LOCAL CALL ATTEMPTS	5,233		
			LINES - BUSINESS	508		
			RESIDENTIAL	1,377		
			PUBLIC	16		
			SPECIAL	126		
			TOTAL	2,030		
		5081	END USER		86	
		5082	SWITCHED ACCESS		193	
		5083	SPECIAL ACCESS		35	
			TOTAL INTER ACCESS		314	
		5084	END USER			
		5084	SWITCHED ACCESS			
		5084	SPECIAL ACCESS			
			STATE ACCESS		162	
			TOTAL ACCESS REVENUES		476	
			LD MESSAGE REVENUE			
		5100	INTERSTATE MESSAGE			
		5100	INTRASTATE MESSAGE			
		5100	INTERSTATE CALLING PLAN			
		5100	INTRASTATE CALLING PLAN			
			LD MSG REV (CLASS A)		136	
			UNIDIRECTIONAL LD			
		5110	INTERSTATE			
			INTRASTATE			
			TOTAL		5	
		5120	LD PRIVATE NETWORK		11	
			OTHER LD			
		5160	INTERSTATE			
			INTRASTATE			
			TOTAL		2	
			TOTAL LD NETWORK REVENUE			
			INTERSTATE			
			INTRASTATE			
			TOTAL		154	
			BASIC LOCAL SERVICE			
		5001	BASIC AREA		419	
		5002	OPTIONAL EXTEND AREA		13	
		5003	CELLAR MOBIL		10	
		5004	OTHER MOBIL SVC		1	
			TOTAL BASIC SVC		443	
			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			12	
	5040 LOCAL PRIVATE LINE			15	
	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			103	
	TOTAL LOCAL NETWORK SRVC REVENUE				
	INTERSTATE				
	INTRASTATE			573.9342108	
	TOTAL REVENUE		1204.767638		
CAPITAL STRUCTURE PARAMETERS					
	DEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIO				
	COST OF DEBT				
	COST OF EQUITY				
		BALANCE SHEET 43-02,B-1 AVG=(ab+af)/2 A	ACCRUEL 43-02,B-5 (col 2C) B	DEPR LIFE (ASSUMING STRAIGHT LIFE) 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 SOURCE		sum checksum checksum checksum checksum checksum checksum check			
ARMIS 4303	Jan 1996 to Dec 1996		28215	495	
ARMIS 4304	GEORGIA		9007	9010	
ARMIS 4308		0 (EJ)	(EJ)		
DEM			0		
=	=	=	=	=	
UNCOLL RATE:	BA Lcl Svc	4303,Ln 520			573.9481849
	LD Ntwk Svs Rev	4303,Ln 525			155.6364256
	End User	4303,Ln 5081			86.12699636
	Sw Acc	4303,Ln 5082			192.8305923
	Spcl Acc	4303,Ln 5083			35.48567524
	St Acc	4303,Ln 5084			161.9743777
	Uncoll Rev	4303,Ln 5300			20.4131554
	Tot Acc	4304,Ln4040 (P)			1.692036002
	B&C	4304,Ln4040 (Q)			0.166186772
	IX	4304,Ln4040 (R)			0.006007538
	Ln4040 (P+Q+R)	Calc (P+Q+R)			1.864230312
Uncoll -Acc	5300-(4040p..r)	1a			18.54892509
End User+ Revs	5081+520+525	1b			815.7116069
Uncoll Retail Rate		1c=(a/b)			0.022739563
Uncoll Wholesale rate	4040p/(5082..5084)	2a			0.004335323

Actuals for 1996 ($000s)

		Investments		Expenses	Calculated Factor	
Plant-Specific Operations Expenses						
TPIS - General Support						
2111 Land	$	18	$	-	-	
2112 Motor Vehicles	$	44	$	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	$	35	$	0	0.0113	
2121 Buildings	$	257	$	28	0.1103	Land & Bldg Exp Applied to Bldgs
2122 Furniture	$	17	$	2	0.1224	
2123 Office Equipment	$	43	$	4	0.1015	
2124 General Purpose Computers	$	66	$	42	0.6381	
2110 Total Land & Support Assets	$	483	$	80	0.1650	
TPIS - Central Office Switching						
2211 Analog Electronic Switching	$	28	$	1	0.0453	
2212 Digital Electronic Switching	$	845	$	48	0.0569	4.75% NET CO Switch Factor
2210 Total Central Office Switching	$	873	$	49	0.0565	
2220 Operator Systems	$	13	$	1	0.0675	
TPIS - Central Office Transmission						
2231 Satellite & Earth Station Facilities						
2231 Other Radio Facilities						
2231 Radio Systems						
2232 Circuit Equipment	$	582	$	9	0.0163	1.53% alternative factor
2230 Total Central Office Transmission	$	582	$	9	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	$	18	$	3	0.1881	
2362 Other Terminal Equipment	$	32	$	6	0.1763	
2310 Total Information Orig/Term	$	51	$	9	0.1824	
TPIS - Cable & Wire Facilities						
2411 Poles	$	100	$	4	0.0413	
2421 Aerial Cable	$	473	$	30	0.0629	0.0629
2422 Underground Cable	$	301	$	6	0.0196	0.0196 Alternative fiber cable maintenance factors
2423 Buried Cable	$	837	$	33	0.0389	0.0389
2424 Submarine Cable						
2425 Deep Sea Cable						
2426 Intrabuilding Network Cable						
2431 Aerial Wire						
2441 Conduit Systems	$	171	$	1	0.0037	
2410 Total Cable & Wire Facilities	$	1,883	$	73	0.0388	
240 Total TPIS (before amortizable assets)	$	3,402	$	222	0.0652	

Plant Non-Specific Operations Expenses

		Expenses		Investment	Factor			
6512 Provisioning Expenses	$	1	$	3,402	0.0003			
6531 Power Expenses	$	6	$	3,402	0.0019	8.10% all		
6532 Network Administration	$	16	$	3,402	0.0048	20.47% switching, interoffice		
6533 Testing	$	17	$	3,402	0.0050	21.22% all		
6534 Plant Operations Administration	$	25	$	3,402	0.0074	31.89% all		
6535 Engineering	$	13	$	3,402	0.0039	16.83% all		
6540 Access Expense								
6530 Total Network Operations Expenses	$	79	$	3,402	0.0233	per line network operations		(=total ARMIS 6530/total lines)
(includes provisioning)						total lines (from net. invest. inputs)		2,030
						annual net ops per line	$	39.11

Network Support Factor Calculation

		Expenses		Cable & Wire Inv	Factor
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	$	1,883	0.0011

Customer Operations Expenses

	Expenses		Net Revenues	Factor	
6611 Product Management *	$ 11	$ 0.4638	$ 679	0.0166	
6612 Sales *	$ 21	$ 0.8522	$ 679	0.0306	
6613 Product Advertising	$ 7		$ 679	0.0110	
6610 Total Marketing Expenses	$ 40			0.0582	
6621 Call Completion Service	$ 9		$ 679	0.0131	
6622 Number Services	$ 22	$ 0.8863	$ 679	0.0318	
6623 Customer Services	$ 71	$ 2.9168	$ 679	0.1046	
6620 Total Services Expenses	$ 102	$ 4.23		0.1495	
Billing/bill inquiry (per line/month)	$ 2.30				
Directory listing (per line/month)	-				
700 Total Customer Operations Expenses	$ 141.08		$ 679	0.2078	0.2442

Corporate Operations Expenses

	Expenses	Revenues	Factor	
6711 Executive	$ 5	$ 679	0.0079	
6712 Planning	$ 3	$ 679	0.0039	
6710 Total Executive & Planning	$ 8	$ 679	0.0117	
6721 Accounting & Finance	$ 16	$ 679	0.0237	
6722 External Relations	$ 10	$ 679	0.0144	
6723 Human Resources	$ 12	$ 679	0.0171	
6724 Information Management	$ 44	$ 679	0.0653	
6725 Legal	$ 4	$ 679	0.0055	
6726 Procurement	$ 2	$ 679	0.0030	
6727 Research & Development	$ 3	$ 679	0.0038	
6728 Other General & Administrative	$ 38	$ 679	0.0554	
6720 Total General & Administrative	$ 128	$ 679	0.1880	
710 Total Corporate Operations Expense	$ 136	$ 679	0.1040	0.2347
720 Total Operating Expenses	$ 578			47.89% Total Operations General Support Allocator
note: does not include dep/amort				45.55% "Office Worker" General Support Alllocator

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	$ 17	$ 43	$ 66	$ 44	$ 128	$ 1	$ 35
Investment/TPIS	0.005	0.013	0.020	0.013	0.038	0.000	0.010
Expense	$ 2	$ 4	$ 42	$ 2	$ 14	$ 0	$ 0
Expense Factor	0.122	0.101	0.638	0.035	0.110	0.035	0.011
Model TPIS	$ 6,540	$ 6,540	$ 6,540	$ 6,540	$ 6,540	$ 6,540	$ 6,540
Calculated Investment	$ 32	$ 83	$ 128	$ 85	$ 247	$ 2	$ 67
Calculated Expense	$ 4	$ 8	$ 81	$ 3	$ 27	$ 0	$ 1
Subtotal ($s)	$ 55,172						
Total Misc Expense	$ 55,172						

Other Taxes & Uncollectibles Calculation

	Expenses	Net Revenues	Factor
7230 Operating State & Local Income Tax	$ 13	$ (66)	
7240 Operating Other Taxes	$ 54	$ (66)	0.0500
5300 Uncollectible Revenues	$ 20	$ 679	0.0301
retail			0.0227
wholesale			0.0043

Ratio of Net Plant to TPIS

TPIS	$ 3,402
Net Plant	$ 3,402
Ratio	$ 1
Model Investment	$ -
Model % of Net Plant	$ -
Model % of TPIS	0%

Actual 1996 Revenue

			% of total
Interstate Access			
5081 End User	$	86	8.26%
5082 Switched Access	$	193	18.49%
5083 Special Access	$	35	3.40%
Total Inter Access	$	314	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	$	314	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	$	136	13.08%
Unidirectional LD Revenue			
5110 Interstate	$	-	0.00%
Intrastate	$	-	0.00%
Total	$	5	0.48%
LD Private Network Revenue			
5120 Interstate	$	-	0.00%
Intrastate	$	-	0.00%
Total	$	11	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	$	154	14.81%

Basic Local Service				
5001	Basic Area	$	419	40.21%
5002	Optional Extended Area	$	13	1.23%
5003	Cellular Mobile	$	10	0.95%
5004	Other Mobile Svcs	$	1	0.08%
	Total Basic Local Service	$	443	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	$	12	1.18%
Local Private Line Revenue				
5040	Interstate	$	-	0.00%
	Intrastate	$	-	0.00%
	Total Private Line	$	15	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	$	103	9.89%
Total Local Network Service Revenue				
	Interstate	$	-	0.00%
	Intrastate	$	574	55.04%
Total Revenue		$	1,043	100.00%

HAI Model Release 5.0a

Expense Module Release 5.0a

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

Workfile Name:	**C:\Program Files\HM50\WORKFILES\HMWKMO4218661.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
Distribution Cable Fill - 0	0.50	**0.50**
Distribution Cable Fill - 5	0.55	**0.55**
Distribution Cable Fill - 100	0.55	**0.55**
Distribution Cable Fill - 200	0.60	**0.60**
Distribution Cable Fill - 650	0.65	**0.65**
Distribution Cable Fill - 850	0.70	**0.70**
Distribution Cable Fill - 2550	0.75	**0.75**
Distribution Cable Fill - 5000	0.75	**0.75**
Distribution Cable Fill - 10000	0.75	**0.75**
Buried Fraction - 0	0.95	**0.95**
Buried Fraction - 5	0.95	**0.95**
Buried Fraction - 100	0.95	**0.95**
Buried Fraction - 200	0.95	**0.95**
Buried Fraction - 650	0.95	**0.95**
Buried Fraction - 850	0.85	**0.85**
Buried Fraction - 2550	0.85	**0.85**
Buried Fraction - 5000	0.86	**0.86**
Buried Fraction - 10000	0.85	**0.85**
Aerial Cable Fraction - 0	0.05	**0.05**
Aerial Cable Fraction - 5	0.05	**0.05**
Aerial Cable Fraction - 100	0.05	**0.05**
Aerial Cable Fraction - 200	0.05	**0.05**
Aerial Cable Fraction - 650	0.05	**0.05**
Aerial Cable Fraction - 850	0.05	**0.05**
Aerial Cable Fraction - 2550	0.05	**0.05**
Aerial Cable Fraction - 5000	0.05	**0.05**
Aerial Cable Fraction - 10000	0.05	**0.05**
Pole Spacing, feet - 0	250	**250**
Pole Spacing, feet - 5	250	**250**
Pole Spacing, feet - 100	200	**200**
Pole Spacing, feet - 200	200	**200**
Pole Spacing, feet - 650	175	**175**
Pole Spacing, feet - 850	175	**175**
Pole Spacing, feet - 2550	150	**150**
Pole Spacing, feet - 5000	150	**150**
Pole Spacing, feet - 10000	150	**150**
Drop Distance, feet - 0	150	**150**
Drop Distance, feet - 5	150	**150**
Drop Distance, feet - 100	100	**100**
Drop Distance, feet - 200	100	**100**
Drop Distance, feet - 650	50	**50**
Drop Distance, feet - 850	50	**50**
Drop Distance, feet - 2550	50	**50**
Drop Distance, feet - 5000	50	**50**
Drop Distance, feet - 10000	50	**50**
Aerial Drop Placement (total) - 0	23.33	**23.33**
Aerial Drop Placement (total) - 5	23.33	**23.33**
Aerial Drop Placement (total) - 100	17.50	**17.50**
Aerial Drop Placement (total) - 200	17.50	**17.50**
Aerial Drop Placement (total) - 650	11.67	**11.67**
Aerial Drop Placement (total) - 850	11.67	**11.67**
Aerial Drop Placement (total) - 2550	11.67	**11.67**

Feeder Input	Current Scenario Value	Default Scenario Value
Copper Feeder Fill - 0	0.65	**0.65**
Copper Feeder Fill - 5	0.75	**0.75**
Copper Feeder Fill - 100	0.80	**0.80**
Copper Feeder Fill - 200	0.80	**0.80**
Copper Feeder Fill - 650	0.80	**0.80**
Copper Feeder Fill - 850	0.80	**0.80**
Copper Feeder Fill - 2550	0.80	**0.80**
Copper Feeder Fill - 5000	0.80	**0.80**
Copper Feeder Fill - 10000	0.80	**0.80**
Fiber Feeder Strand Fill - 0	1.00	**1.00**
Fiber Feeder Strand Fill - 5	1.00	**1.00**
Fiber Feeder Strand Fill - 100	1.00	**1.00**
Fiber Feeder Strand Fill - 200	1.00	**1.00**
Fiber Feeder Strand Fill - 650	1.00	**1.00**
Fiber Feeder Strand Fill - 850	1.00	**1.00**
Fiber Feeder Strand Fill - 2550	1.00	**1.00**
Fiber Feeder Strand Fill - 5000	1.00	**1.00**
Fiber Feeder Strand Fill - 10000	1.00	**1.00**
Copper Aerial Fraction - 0	0.05	**0.05**
Copper Aerial Fraction - 5	0.05	**0.05**
Copper Aerial Fraction - 100	0.05	**0.05**
Copper Aerial Fraction - 200	0.05	**0.05**
Copper Aerial Fraction - 650	0.05	**0.05**
Copper Aerial Fraction - 850	0.05	**0.05**
Copper Aerial Fraction - 2550	0.05	**0.05**
Copper Aerial Fraction - 5000	0.05	**0.05**
Copper Aerial Fraction - 10000	0.05	**0.05**
Copper Buried Fraction - 0	0.95	**0.95**
Copper Buried Fraction - 5	0.95	**0.95**
Copper Buried Fraction - 100	0.95	**0.95**
Copper Buried Fraction - 200	0.95	**0.95**
Copper Buried Fraction - 650	0.95	**0.95**
Copper Buried Fraction - 850	0.85	**0.85**
Copper Buried Fraction - 2550	0.01	**0.01**
Copper Buried Fraction - 5000	0.85	**0.85**
Copper Buried Fraction - 10000	0.85	**0.85**
Copper Manhole Spacing, feet - 0	800	**800**
Copper Manhole Spacing, feet - 5	800	**800**
Copper Manhole Spacing, feet - 100	800	**800**
Copper Manhole Spacing, feet - 200	800	**800**
Copper Manhole Spacing, feet - 650	600	**600**
Copper Manhole Spacing, feet - 850	600	**600**
Copper Manhole Spacing, feet - 2550	600	**600**
Copper Manhole Spacing, feet - 5000	400	**400**
Copper Manhole Spacing, feet - 10000	400	**400**
Fiber Aerial Fraction - 0	0.05	**0.05**
Fiber Aerial Fraction - 5	0.05	**0.05**
Fiber Aerial Fraction - 100	0.05	**0.05**
Fiber Aerial Fraction - 200	0.05	**0.05**
Fiber Aerial Fraction - 650	0.05	**0.05**
Fiber Aerial Fraction - 850	0.00	**0.00**
Fiber Aerial Fraction - 2550	0.05	**0.05**

Distribution Input	Current Scenario Value	Default Scenario Value
Aerial Drop Placement (total) - 5000	11.67	11.67
Aerial Drop Placement (total) - 10000	11.67	11.67
Buried Drop Placement (total) - 0	0.60	0.60
Buried Drop Placement (total) - 5	0.60	0.60
Buried Drop Placement (total) - 100	0.60	0.60
Buried Drop Placement (total) - 200	0.60	0.60
Buried Drop Placement (total) - 650	0.60	0.60
Buried Drop Placement (total) - 850	0.60	0.60
Buried Drop Placement (total) - 2550	0.75	0.75
Buried Drop Placement (total) - 5000	1.50	1.50
Buried Drop Placement (total) - 10000	5.00	5.00
Buried Drop Sharing Fraction - 0	1.00	1.00
Buried Drop Sharing Fraction - 5	1.00	1.00
Buried Drop Sharing Fraction - 100	1.00	1.00
Buried Drop Sharing Fraction - 200	1.00	1.00
Buried Drop Sharing Fraction - 650	1.00	1.00
Buried Drop Sharing Fraction - 850	1.00	1.00
Buried Drop Sharing Fraction - 2550	1.00	1.00
Buried Drop Sharing Fraction - 5000	1.00	1.00
Buried Drop Sharing Fraction - 10000	1.00	1.00
Buried Drop Fraction - 0	0.95	0.95
Buried Drop Fraction - 5	0.95	0.95
Buried Drop Fraction - 100	0.95	0.95
Buried Drop Fraction - 200	0.95	0.95
Buried Drop Fraction - 650	0.95	0.95
Buried Drop Fraction - 850	0.95	0.95
Buried Drop Fraction - 2550	0.95	0.95
Buried Drop Fraction - 5000	0.95	0.95
Buried Drop Fraction - 10000	0.95	0.95
Pole Investment	201.00	201.00
Pole Labor	216.00	216.00
Buried Cable Jacketing Multiplier	1.04	1.04
Conduit Investment per foot	0.60	0.60
Spare Tubes per route	1.00	1.00
Regional Labor Adjustment Factor (see Labor Inputs)	1.00	1.00
Residential NID case, no protector	10.00	10.00
Residential NID basic labor	15.00	15.00
spare	-	-
Residential Protection Block, per pair	4.00	4.00
Business NID case, no protector	25.00	25.00
Business NID basic labor	15.00	15.00
Business Protection Block, per pair	4.00	4.00
Average Lines per business location	4.00	4.00
Terminal and Splice per line, buried	42.50	42.50
Terminal and Splice per line, aerial	32.00	32.00
Drop cable investment per foot buried	0.14	0.14
Drop cable buried pairs	3.00	3.00
Drop cable investment per foot aerial	0.095	0.095
Drop cable aerial pairs	2.00	2.00
DS-0 fraction	1.00	1.00
DS-1 fraction	-	-
DS-0 pair equivalent	1.00	1.00

Feeder Input	Current Scenario Value	Default Scenario Value
Fiber Aerial Fraction - 5000	0.05	0.05
Fiber Aerial Fraction - 10000	0.05	0.05
Fiber Buried Fraction - 0	0.95	0.95
Fiber Buried Fraction - 5	0.95	0.95
Fiber Buried Fraction - 100	0.95	0.95
Fiber Buried Fraction - 200	0.95	0.95
Fiber Buried Fraction - 650	0.95	0.95
Fiber Buried Fraction - 850	0.01	0.01
Fiber Buried Fraction - 2550	0.85	0.85
Fiber Buried Fraction - 5000	0.85	0.85
Fiber Buried Fraction - 10000	0.85	0.85
Fiber Pullbox Spacing. feet - 0	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 5	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 100	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 200	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 650	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 850	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 2550	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 5000	2,000.00	2,000.00
Fiber Pullbox Spacing. feet - 10000	2,000.00	2,000.00
Fiber Feeder Investment per foot - 216	13.10	13.10
Fiber Feeder Investment per foot - 144	9.50	9.50
Fiber Feeder Investment per foot - 96	7.10	7.10
Fiber Feeder Investment per foot - 72	5.90	5.90
Fiber Feeder Investment per foot - 60	5.30	5.30
Fiber Feeder Investment per foot - 48	4.70	4.70
Fiber Feeder Investment per foot - 36	4.10	4.10
Fiber Feeder Investment per foot - 24	3.50	3.50
Fiber Feeder Investment per foot - 18	3.20	3.20
Fiber Feeder Investment per foot - 12	2.90	2.90
Copper Feeder Investment per foot - 4200	29.00	29.00
Copper Feeder Investment per foot - 3600	26.00	26.00
Copper Feeder Investment per foot - 3000	23.00	23.00
Copper Feeder Investment per foot - 2400	20.00	20.00
Copper Feeder Investment per foot - 1800	16.00	16.00
Copper Feeder Investment per foot - 1200	12.00	12.00
Copper Feeder Investment per foot - 900	10.00	10.00
Copper Feeder Investment per foot - 600	7.75	7.75
Copper Feeder Investment per foot - 400	6.00	6.00
Copper Feeder Investment per foot - 200	4.25	4.25
Copper Feeder Investment per foot - 100	2.50	2.50
Buried Copper Cable Sheath Multiplier	1.04	1.04
Buried Fiber Sheath Addition per foot	0.20	0.20
Pole Materials	201.00	201.00
Pole Labor	216.00	216.00
Conduit Material Investment per foot	0.60	0.60
Inner Duct Investment per foot	0.30	0.30
Spare Tubes per section	1.00	1.00
Regional Labor Adjustment Factor (see Labor	1.00	1.00
Pole Spacing, feet - 0	250.00	250.00
Pole Spacing, feet - 5	250.00	250.00
Pole Spacing, feet - 100	200.00	200.00

HAI Model Release 5.0a
User Adjustable Inputs

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

Feeder Input	Current Scenario Value	Default Scenario Value
Pole Spacing, feet - 200	200.00	**200.00**
Pole Spacing, feet - 650	175.00	**175.00**
Pole Spacing, feet - 850	175.00	**175.00**
Pole Spacing, feet - 2550	150.00	**150.00**
Pole Spacing, feet - 5000	150.00	**150.00**
Pole Spacing, feet - 10000	150.00	**150.00**
Buried fraction available for shift - 0	-	**-**
Buried fraction available for shift - 5	-	**-**
Buried fraction available for shift - 100	-	**-**
Buried fraction available for shift - 200	-	**-**
Buried fraction available for shift - 650	-	**-**
Buried fraction available for shift - 850	-	**-**
Buried fraction available for shift - 2550	-	**-**
Buried fraction available for shift - 5000	-	**-**
Buried fraction available for shift - 10000	-	**-**
Fiber investment/strand - foot	0.1000	**0.10**
Copper investment/pair - foot	0.0075	**0.01**
Copper Manhole Materials - 0	1865	**1,865.00**
Copper Manhole Materials - 5	1865	**1,865.00**
Copper Manhole Materials - 100	1865	**1,865.00**
Copper Manhole Materials - 200	1865	**1,865.00**
Copper Manhole Materials - 650	1865	**1,865.00**
Copper Manhole Materials - 850	1865	**1,865.00**
Copper Manhole Materials - 2550	1865	**1,865.00**
Copper Manhole Materials - 5000	1865	**1,865.00**
Copper Manhole Materials - 10000	1865	**1,865.00**
Copper Manhole Frame and Cover - 0	350.00	**350.00**
Copper Manhole Frame and Cover - 5	350.00	**350.00**
Copper Manhole Frame and Cover - 100	350.00	**350.00**
Copper Manhole Frame and Cover - 200	350.00	**350.00**
Copper Manhole Frame and Cover - 650	350.00	**350.00**
Copper Manhole Frame and Cover - 850	350.00	**350.00**
Copper Manhole Frame and Cover - 2550	350.00	**350.00**
Copper Manhole Frame and Cover - 5000	350.00	**350.00**
Copper Manhole Frame and Cover - 10000	350.00	**350.00**
Copper Manhole Site Delivery - 0	125.00	**125.00**
Copper Manhole Site Delivery - 5	125.00	**125.00**
Copper Manhole Site Delivery - 100	125.00	**125.00**
Copper Manhole Site Delivery - 200	125.00	**125.00**
Copper Manhole Site Delivery - 650	125.00	**125.00**
Copper Manhole Site Delivery - 850	125.00	**125.00**
Copper Manhole Site Delivery - 2550	125.00	**125.00**
Copper Manhole Site Delivery - 5000	125.00	**125.00**
Copper Manhole Site Delivery - 10000	125.00	**125.00**
Copper Manhole Excavate and Backfill - 0	2,800	**2,800**
Copper Manhole Excavate and Backfill - 5	2,800	**2,800**
Copper Manhole Excavate and Backfill - 100	2,800	**2,800**
Copper Manhole Excavate and Backfill - 200	2,800	**2,800**
Copper Manhole Excavate and Backfill - 650	3,200	**3,200**
Copper Manhole Excavate and Backfill - 850	3,500	**3,500**
Copper Manhole Excavate and Backfill - 2550	3,500	**3,500**
Copper Manhole Excavate and Backfill - 5000	5,000	**5,000**

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User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value
Distribution Cable Size 10	25.00	**25.00**
Distribution Cable Size 11	12.00	**12.00**
Distribution Cable Size 12	6.00	**6.00**
Distribution Cable Investment per foot 1	20.00	**20.00**
Distribution Cable Investment per foot 2	16.00	**16.00**
Distribution Cable Investment per foot 3	12.00	**12.00**
Distribution Cable Investment per foot 4	10.00	**10.00**
Distribution Cable Investment per foot 5	7.75	**7.75**
Distribution Cable Investment per foot 6	6.00	**6.00**
Distribution Cable Investment per foot 7	4.25	**4.25**
Distribution Cable Investment per foot 8	2.50	**2.50**
Distribution Cable Investment per foot 9	1.63	**1.63**
Distribution Cable Investment per foot 10	1.19	**1.19**
Distribution Cable Investment per foot 11	0.76	**0.76**
Distribution Cable Investment per foot 12	0.63	**0.63**
Distribution Riser Cable Size 1	2,400.00	**2,400.00**
Distribution Riser Cable Size 2	1,800.00	**1,800.00**
Distribution Riser Cable Size 3	1,200.00	**1,200.00**
Distribution Riser Cable Size 4	900.00	**900.00**
Distribution Riser Cable Size 5	600.00	**600.00**
Distribution Riser Cable Size 6	400.00	**400.00**
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**

Feeder Input	Current Scenario Value	Default Scenario Value
Copper Manhole Excavate and Backfill - 1000	5,000	**5,000**
Fiber Pullbox Materials - 0	280.00	**280.00**
Fiber Pullbox Materials - 5	280.00	**280.00**
Fiber Pullbox Materials - 100	280.00	**280.00**
Fiber Pullbox Materials - 200	280.00	**280.00**
Fiber Pullbox Materials - 650	280.00	**280.00**
Fiber Pullbox Materials - 850	280.00	**280.00**
Fiber Pullbox Materials - 2550	280.00	**280.00**
Fiber Pullbox Materials - 5000	280.00	**280.00**
Fiber Pullbox Materials - 10000	280.00	**280.00**
Fiber Pullbox Installation - 0	220.00	**220.00**
Fiber Pullbox Installation - 5	220.00	**220.00**
Fiber Pullbox Installation - 100	220.00	**220.00**
Fiber Pullbox Installation - 200	220.00	**220.00**
Fiber Pullbox Installation - 650	220.00	**220.00**
Fiber Pullbox Installation - 850	220.00	**220.00**
Fiber Pullbox Installation - 2550	220.00	**220.00**
Fiber Pullbox Installation - 5000	220.00	**220.00**
Fiber Pullbox Installation - 10000	220.00	**220.00**
Dewatering factor manhole excavation (additi	0.20	**0.20**
Water table depth for dewatering, ft	5.00	**5.00**

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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
Constant EO Switching Investment Term, small ICO	520.14	**520.14**
Constant EO Switching Investment Term, BOC and large ICO	242.73	**242.73**
Switch Capacity Real-Time (BHCA) - 1	10,000	**10,000**
Switch Capacity Real-Time (BHCA) - 2	50,000	**50,000**
Switch Capacity Real-Time (BHCA) - 3	200,000	**200,000**
Switch Capacity Real-Time (BHCA) - 4	600,000	**600,000**
Switch Capacity Traffic (BHCCS) - 1	30,000	**30,000**
Switch Capacity Traffic (BHCCS) - 2	150,000	**150,000**
Switch Capacity Traffic (BHCCS) - 3	600,000	**600,000**
Switch Capacity Traffic (BHCCS) - 4	1,800,000	**1,800,000**
Initial Switch Maximum Equipped Line Size	80,000	**80,000**
Switch Port Administrative Fill	0.94	**0.94**
Switch Maximim Processor Occupancy	0.90	**0.90**
Processor Feature Loading Multiplier - normal	1.20	**1.20**
Processor Feature Loading Multiplier - heavy business	2.00	**2.00**
Processor Feature Loading Multiplier - business penetration threshold	0.30	**0.30**
MDF/Protector Investment per line	-	**-**
Analog Line Circuit Offset for DLC lines, per line	-	**-**
Switch Installation Multiplier	1.00	**1.00**
Operator Traffic Fraction	0.02	**0.02**
Total Interoffice Traffic Fraction	0.40	**0.40**
Maximum Trunk Occupancy, CCS	27.50	**27.50**
Trunk Port, per end	100.00	**100.00**
Entrance Facility Distance, miles	0.50	**0.50**
Direct-routed Fraction of Local Interoffice	0.98	**0.98**
POPs per Tandem Location	5.00	**5.00**
Tandem-routed Fraction of Total IntraLATA Traffic	1.00	**1.00**
Tandem-routed Fraction of Total InterLATA Traffic	1.00	**1.00**
Local Call Attempts	5,233	**5,233**
Call Completion Factor	0.70	**0.70**
IntraLATA Calls Completed	313	**313**
InterLATA intrastate Calls Completed	315	**315**
InterLATA interstate Calls Completed	670	**670**
Local DEMs, thousands	23,095	**23,095**
Intrastate DEMs, thousands	4,931	**4,931**
Interstate DEMs, thousands	4,868	**4,868**
Local Business/Residence DEMs	1.10	**1.10**
Intrastate Business/Residence DEMs	2.00	**2.00**
Interstate Business/Residence DEMs	3.00	**3.00**
BH Fraction of Daily Usage	0.10	**0.10**
Annual to Daily Usage Reduction Factor	270.00	**270.00**
Residential Holding Time Multiplier	1.00	**1.00**
Business Holding Time Multiplier	1.00	**1.00**
Residential Call Attempts per BH	1.30	**1.30**
Business Call Attempts per BH	3.50	**3.50**
ICO STP Investment, per line (equipment)	5.50	**5.50**
ICO Local Tandem Investment, per line	1.90	**1.90**
ICO OS Tandem Investment, per line	0.80	**0.80**
ICO SCP Investment per line (equipment)	2.50	**2.50**
ICO SCP - STP per line (wirecenter)	0.40	**0.40**
ICO Local Tandem Investment, per line (wirecenter)	2.50	**2.50**
ICO OS Tandem Investment, per line (wirecenter)	1.00	**1.00**

Expense Input	Current Scenario Value	Default Scenario Value
Cost of Debt	0.088	**0.088**
Debt Fraction	0.442	**0.442**
Cost of Equity	0.132	**0.132**
Average Trunk Utilization	0.300	**0.300**
Tax Rate	0.393	**0.393**
Corporate Overhead Factor	0.104	**0.104**
Other Taxes Factor	0.050	**0.050**
Billing/Bill Inquiry per line per month	2.300	**2.300**
Directory Listing per line per month	-	**-**
Forward-looking Network Operations Factor	1.000	**1.000**
Alternative CO Switching Factor	0.048	**0.048**
Alternative Circuit Equipment Factor	0.015	**0.015**
EO Traffic Sensitive Fraction	0.700	**0.700**
Monthly LNP cost, per line	0.250	**0.250**
Carrier to Carrier Customer Service, per line per ye	1.69	**1.69**
NID Expense per line per year	1.00	**1.00**
DS-0/DS-1 Terminal Factor	12.4	**12.4**
DS-1/DS-3 Terminal Factor	9.9	**9.9**
Average Lines per Business Location	4	**4**
Distribution Aerial Shring Fraction - 0	1.00	**1.00**
Distribution Aerial Shring Fraction - 5	1.00	**1.00**
Distribution Aerial Shring Fraction - 100	1.00	**1.00**
Distribution Aerial Shring Fraction - 200	0.50	**0.50**
Distribution Aerial Shring Fraction - 650	0.50	**0.50**
Distribution Aerial Shring Fraction - 850	0.50	**0.50**
Distribution Aerial Shring Fraction - 2550	0.50	**0.50**
Distribution Aerial Shring Fraction - 5000	0.50	**0.50**
Distribution Aerial Shring Fraction - 10000	0.50	**0.50**
Distribution Buried Shring Fraction - 0	1.00	**1.00**
Distribution Buried Shring Fraction - 5	1.00	**1.00**
Distribution Buried Shring Fraction - 100	1.00	**1.00**
Distribution Buried Shring Fraction - 200	1.00	**1.00**
Distribution Buried Shring Fraction - 650	1.00	**1.00**
Distribution Buried Shring Fraction - 850	1.00	**1.00**
Distribution Buried Shring Fraction - 2550	1.00	**1.00**
Distribution Buried Shring Fraction - 5000	1.00	**1.00**
Distribution Buried Shring Fraction - 10000	1.00	**1.00**
Distribution Underground Shring Fraction - 0	1.00	**1.00**
Distribution Underground Shring Fraction - 5	1.00	**1.00**
Distribution Underground Shring Fraction - 100	1.00	**1.00**
Distribution Underground Shring Fraction - 200	1.00	**1.00**
Distribution Underground Shring Fraction - 650	1.00	**1.00**
Distribution Underground Shring Fraction - 850	1.00	**1.00**
Distribution Underground Shring Fraction - 2550	1.00	**1.00**
Distribution Underground Shring Fraction - 5000	1.00	**1.00**
Distribution Underground Shring Fraction - 10000	1.00	**1.00**
Feeder Aerial Shring Fraction - 0	1.00	**1.00**
Feeder Aerial Shring Fraction - 5	1.00	**1.00**
Feeder Aerial Shring Fraction - 100	1.00	**1.00**
Feeder Aerial Shring Fraction - 200	0.50	**0.50**
Feeder Aerial Shring Fraction - 650	0.50	**0.50**
Feeder Aerial Shring Fraction - 850	0.50	**0.50**

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User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value
ICO Tandem A Links and C Links per line (wirecenter)	0.30	**0.30**
Real-time Limit, BHCA	750,000	**750,000**
Port Limit, trunks	100,000	**100,000**
Common Equipment Investment	1,000,000	**1,000,000**
Maximum Port Fill	0.90	**0.90**
Maximum Real-time Occupancy	0.90	**0.90**
Common Equipment Intercept Factor	0.50	**0.50**
STP Link Capacity	720	**720**
STP Maximum Link Fill	0.80	**0.80**
Maximum STP Investment, per pair	5,000,000	**5,000,000**
Minimum STP Investment, per pair	1,000,000	**1,000,000**
Link Termination, both ends	900	**900**
Signaling Link Bit Rate	56,000	**56,000**
Link Occupancy	0.40	**0.40**
C Link Cross Section	24.00	**24.00**
ISUP Messages per Interoffice BHCA	6.00	**6.00**
ISUP Message Length, bytes	25.00	**25.00**
TCAP Messages per transaction	2.00	**2.00**
TCAP Message length, bytes	100.00	**100.00**
Fraction of BHCA requiring TCAP	0.10	**0.10**
SCP Investment/Transaction/Second	20,000	**20,000**
Operator Investment per position	6,400	**6,400**
Operator Maximum Utilization, per position, CCS	32	**32**
Operator Intervention Factor	10	**10**
Public Telephone Investment, per station	760	**760**
Lot Size, Multiplier of Switch Room Size	2	**2**
Tandem/EO Wire Center Common Factor	0.40	**0.40**
Power Investment 1	-	**-**
Power Investment 2	-	**-**
Power Investment 3	-	**-**
Power Investment 4	-	**-**
Power Investment 5	-	**-**
Switch Room Size, sq ft 1	500	**500**
Switch Room Size, sq ft 2	1,000	**1,000**
Switch Room Size, sq ft 3	2,000	**2,000**
Switch Room Size, sq ft 4	5,000	**5,000**
Switch Room Size, sq ft 5	10,000	**10,000**
Construction Investment, sq ft 1	75.00	**75.00**
Construction Investment, sq ft 2	85.00	**85.00**
Construction Investment, sq ft 3	100.00	**100.00**
Construction Investment, sq ft 4	125.00	**125.00**
Construction Investment, sq ft 5	150.00	**150.00**
Land Investment, sq ft 1	5	**5**
Land Investment, sq ft 2	8	**8**
Land Investment, sq ft 3	10	**10**
Land Investment, sq ft 4	15	**15**
Land Investment, sq ft 5	20	**20**
OC-48 ADM, installed, 48 DS-3s	50,000	**50,000**
OC-48 ADM, installed, 12 DS-3s	40,000	**40,000**
OC-3/DS-1 Terminal Multiplexer, installed, 84 DS-1s	26,000	**26,000**
Investment per 7 DS-1s	500	**500**
Number of Fibers	24	**24**

Expense Input	Current Scenario Value	Default Scenario Value
Feeder Aerial Shring Fraction - 2550	0.50	**0.50**
Feeder Aerial Shring Fraction - 5000	0.50	**0.50**
Feeder Aerial Shring Fraction - 10000	0.50	**0.50**
Feeder Underground Shring Fraction - 0	1.00	**1.00**
Feeder Underground Shring Fraction - 5	1.00	**1.00**
Feeder Underground Shring Fraction - 100	1.00	**1.00**
Feeder Underground Shring Fraction - 200	1.00	**1.00**
Feeder Underground Shring Fraction - 650	1.00	**1.00**
Feeder Underground Shring Fraction - 850	1.00	**1.00**
Feeder Underground Shring Fraction - 2550	1.00	**1.00**
Feeder Underground Shring Fraction - 5000	1.00	**1.00**
Feeder Underground Shring Fraction - 10000	1.00	**1.00**
Feeder Buried Shring Fraction - 0	1.00	**1.00**
Feeder Buried Shring Fraction - 5	1.00	**1.00**
Feeder Buried Shring Fraction - 100	1.00	**1.00**
Feeder Buried Shring Fraction - 200	1.00	**1.00**
Feeder Buried Shring Fraction - 650	1.00	**1.00**
Feeder Buried Shring Fraction - 850	1.00	**1.00**
Feeder Buried Shring Fraction - 2550	1.00	**1.00**
Feeder Buried Shring Fraction - 5000	1.00	**1.00**
Feeder Buried Shring Fraction - 10000	1.00	**1.00**
Motor Vehicles - Economic Life	9.28	**9.28**
Garage Work Equipment - Economic Life	11.04	**11.04**
Other Work Equipment - Economic Life	13.47	**13.47**
Buildings - Economic Life	47.82	**47.82**
Furniture - Economic Life	17.10	**17.10**
Office Support Equipment - Economic Life	11.58	**11.58**
Company Comm. Equipment - Economic Life	7.69	**7.69**
General Purpose Computer - Economic Life	6.36	**6.36**
Digital Electronic Switching - Economic Life	16.66	**16.66**
Operator Systems - Economic Life	9.33	**9.33**
Digital Circuit Equipment - Economic Life	10.07	**10.07**
Public Telephone Terminal Equipment - Economic	8.26	**8.26**
Poles - Economic Life	15.92	**15.92**
Aerial Cable - metallic - Economic Life	16.75	**16.75**
Aerial Cable - non metallic - Economic Life	22.24	**22.24**
Underground Cable - metallic - Economic Life	21.14	**21.14**
Underground Cable - non metallic - Economic Life	23.08	**23.08**
Buried - metallic - Economic Life	19.90	**19.90**
Buried - non metallic - Economic Life	23.86	**23.86**
Intrabuilding Cable - metallic - Economic Life	15.71	**15.71**
Intrabuilding Cable - non metallic - Economic Life	23.62	**23.62**
Conduit Systems - Economic Life	50.92	**50.92**
Motor Vehicles - Net Salvage %	0.1121	**0.1121**
Garage Work Equipment - Net Salvage %	-0.1071	**-0.1071**
Other Work Equipment - Net Salvage %	0.0321	**0.0321**
Buildings - Net Salvage %	0.0187	**0.0187**
Furniture - Net Salvage %	0.0688	**0.0688**
Office Support Equipment - Net Salvage %	0.0691	**0.0691**
Company Comm. Equipment - Net Salvage %	0.0376	**0.0376**
General Purpose Computer - Net Salvage %	0.0373	**0.0373**
Digital Electronic Switching - Net Salvage %	0.0297	**0.0297**

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User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value
Pigtrails, per strand	60	60
Optical Distribution Panel	1,000	1,000
EF&I, per hour	55	55
EF&I hours	32	32
Regional Labor Adjustment Factor (see Labor Inputs)	1	1
Channel Bank Investment, per 24 lines	5,000	5,000
Fraction of SA Lines Requiring Multiplexing	-	-
Regenerator, installed	15,000	15,000
Regenerator spacing, miles	40	40
DCS installed, per DS-3	30,000	30,000
Transmission Terminal Fill (DS-0 level)	0.90	0.90
Fiber Investment, fiber cable	3.50	3.50
Fiber, number of strands per ADM	4.00	4.00
Fiber Investment, buried fraction	0.95	0.95
Fiber Investment, buried placement	1.77	1.77
Fiber Investment, buried sheath addition	0.20	0.20
Fiber Investment, conduit	0.60	0.60
Fiber, spare tubes per route	1.00	1.00
Fiber Investment, conduit placement	16.40	16.40
Fiber, pullbox spacing	2,000.00	2,000.00
Fiber Investment, pullbox investsment	500.00	500.00
Fiber, aerial fraction	0.05	0.05
Fiber, pole spacing, feet	150.00	150.00
Fiber Investment, pole material	201.00	201.00
Fiber Investment, pole labor (basic)	216.00	216.00
Fraction Poles and Buried/Underground Placement Common with Feec	0.75	0.75
Fraction of Aerial Structure Assigned to Telephone	0.50	0.50
Fraction of Buried Structure Assigned to Telephone	1.00	1.00
Fraction of Underground Structure Assigned to Telephone	1.00	1.00
Multiplicative EO Switching Investment Term	-14.922	(14.92)
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 traffice -- 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

Expense Input	Current Scenario Value	Default Scenario Value
Operator Systems - Net Salvage %	-0.0082	-0.0082
Digital Circuit Equipment - Net Salvage %	-0.0169	-0.0169
Public Telephone Terminal Equipment - Net Salvaç	0.0797	0.0797
Poles - Net Salvage %	-0.8998	-0.8998
Aerial Cable - metallic - Net Salvage %	-0.2303	-0.2303
Aerial Cable - non metallic - Net Salvage %	-0.1753	-0.1753
Underground Cable - metallic - Net Salvage %	-0.1826	-0.1826
Underground Cable - non metallic - Net Salvage %	-0.1458	-0.1458
Buried - metallic - Net Salvage %	-0.0839	-0.0839
Buried - non metallic - Net Salvage %	-0.0858	-0.0858
Intrabuilding Cable - metallic - Net Salvage %	-0.1574	-0.1574
Intrabuilding Cable - non metallic - Net Salvage %	-0.1052	-0.1052
Conduit Systems - Net Salvage %	-0.1034	-0.1034
Furniture - Capital Costs - % assigned per line	0.0000	0.0000
Furniture - Expenses - % assigned per line	0.0000	0.0000
Office Equipment - Capital Costs - % assigned per l	0.0000	0.0000
Office Equipment - Expenses - % assigned per line	0.0000	0.0000
General Purpose Computer - Capital Costs - % assi	0.0000	0.0000
General Purpose Computer - Expenses - % assigne	0.0000	0.0000
Motor Vehicles - Capital Costs - % assigned per line	0.0000	0.0000
Motor Vehicles - Expenses - % assigned per line	0.0000	0.0000
Buildings - Capital Costs - % assigned per line	0.0000	0.0000
Buildings - Expenses - % assigned per line	0.0000	0.0000
Garage Work Eqpt. - Capital Costs - % assigned pe	0.0000	0.0000
Garage Work Eqpt. - Expenses - % assigned per lin	0.0000	0.0000
Other Work Eqpt. - Capital Costs - % assigned per l	0.0000	0.0000
Other Work Eqpt. - Expenses - % assigned per line	0.0000	0.0000
Network Operations - % assigned per line	0.0000	0.0000
Other Taxes - % assigned per line	0.0000	0.0000
Variable Overhead - % assigned per line	0.0000	0.0000

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User Adjustable Inputs

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

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