

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	292	-	292	-	-	-	287	\$	-	\$	-	\$	417,127	\$	20,542	\$	-	\$	-	\$	35,890		
5	DLC	1,453	478	885	78	12	36	863	\$	-	\$	-	\$	149,197	\$	7,486	\$	-	\$	-	\$	192,548		
100	DLC																							
200	DLC																							
650	DLC																							
850	DLC																							
2550	DLC																							
5000	DLC																							
10000	DLC																							
0	non-DLC																							
5	non-DLC																							
100	non-DLC																							
200	non-DLC																							
650	non-DLC																							
850	non-DLC																							
2550	non-DLC																							
5000	non-DLC																							
10000	non-DLC																							
Totals/Avg		1,745	478	1,177	78	12	36	1,150	\$	-	\$	-	\$	-	\$	566,324	\$	28,028	\$	-	\$	-	\$	228,437

HA

density zone (lines/sq mi)	feeder type	feeder pole inv	distribution cable underground	distribution cable buried	distribution cable aerial	distribution conduit	distribution conduit placement	distribution buried placement	distribution poles	calc copper feeder fill	calc distribution fill	calc "mainframe fill"	DLC inv w/site	SAI inv	terminal inv	drop inv	NID inv	feeder distance
0	DLC	\$ 3,156	\$ -	\$ 451,287	\$ 22,838	\$ -	\$ -	\$ 779,970	\$ 46,704	0.00%	28.85%	0.00%	\$ 270,778	\$ 3,650	\$ 24,517	\$ 30,256	\$ 8,347	141,227
5	DLC	\$ 13,602	\$ -	\$ 797,891	\$ 40,379	\$ -	\$ -	\$ 463,255	\$ 23,769	0.00%	15.13%	0.00%	\$ 197,500	\$ 9,600	\$ 121,966	\$ 115,268	\$ 33,408	2,411
100	DLC																	
200	DLC																	
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC																	
5	non-DLC																	
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ 16,757	\$ -	\$ 1,249,178	\$ 63,218	\$ -	\$ -	\$ 1,243,225	\$ 70,473				\$ 468,278	\$ 13,250	\$ 146,483	\$ 145,523	\$ 41,755	143,638

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	480,119	292	\$	126,292	\$	-	\$	21,461	\$	6,949	\$	555	\$	730	\$	234	\$	292	\$	34,204	\$	436	\$	182,619	\$	5,040	\$	2,971	\$	-		
5	DLC	275,501	1,453	\$	594,580	\$	-	\$	101,039	\$	13,051	\$	2,612	\$	3,437	\$	1,100	\$	1,375	\$	84,922	\$	2,055	\$	-	\$	678,366	\$	18,918	\$	11,188	\$	-
100	DLC																																
200	DLC																																
650	DLC																																
850	DLC																																
2550	DLC																																
5000	DLC																																
10000	DLC																																
0	non-DLC																																
5	non-DLC																																
100	non-DLC																																
200	non-DLC																																
650	non-DLC																																
850	non-DLC																																
2550	non-DLC																																
5000	non-DLC																																
10000	non-DLC																																
Totals/Avg		755,621	1,745	\$	720,872	\$	-	\$	122,500	\$	20,000	\$	3,167	\$	4,168	\$	1,334	\$	1,667	\$	119,126	\$	2,491	\$	-	\$	860,984	\$	23,958	\$	14,159	\$	-

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		\$ 17,272		\$ 80,878	\$ 2,225	\$ 1,310	\$ -		\$ 6,368		\$ 106,738	\$ 2,972	\$ 1,757	\$ -		\$ 14,668	5
5	DLC		\$ 98,054		\$ 214,221	\$ 5,974	\$ 3,533	\$ -		\$ 30,964		\$ 704,117	\$ 19,636	\$ 11,612	\$ -		\$ 101,776	12
100	DLC																	
200	DLC																	
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non-DLC																	
5	non-DLC																	
100	non-DLC																	
200	non-DLC																	
650	non-DLC																	
850	non-DLC																	
2550	non-DLC																	
5000	non-DLC																	
10000	non-DLC																	
Totals/Avg		\$ -	\$ 115,326	\$ -	\$ 295,099	\$ 8,199	\$ 4,843	\$ -	\$ -	\$ 37,332	\$ -	\$ 810,854	\$ 22,608	\$ 13,369	\$ -	\$ -	\$ 116,444	17

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	2	1	7	11	12	4	730	\$ 117	\$ 1,606	\$ 17,254	\$ 1,159	4,414,604	-	2,751,900	
5	DLC	3	1	18	69	46	8	3,437	\$ 550	\$ 7,562	\$ 19,284	\$ 7,763	13,379,144	10,483,252	4,906,993	
100	DLC														-	
200	DLC														-	
650	DLC														-	
850	DLC														-	
2550	DLC														-	
5000	DLC														-	
10000	DLC														-	
0	non-DLC														-	
5	non-DLC														-	
100	non-DLC														-	
200	non-DLC														-	
650	non-DLC														-	
850	non-DLC														-	
2550	non-DLC														-	
5000	non-DLC														-	
10000	non-DLC														-	
Totals/Avg		5	2	25	80	58	12	4,168	\$ 667	\$ 9,169	\$ 36,538	\$ 8,922	17,793,748	10,483,252	7,658,893	

Universal Service Calculation Sheet - monthly costs per line

Missouri
Rock Port 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	\$ 161.42	\$ 33.18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55.65
Port	3.81	3.81	-	-	-	-	-	-	-	3.81
End office usage	5.06	5.06	-	-	-	-	-	-	-	5.06
Signaling	0.17	0.17	-	-	-	-	-	-	-	0.17
Transport	4.69	4.69	-	-	-	-	-	-	-	4.69
Local retail costs										
Billing/bill inquiries	\$ 2.74	\$ 2.74	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.74
Directory listing	-	-	-	-	-	-	-	-	-	-
LNP expense (when available)	0.30	0.30	-	-	-	-	-	-	-	0.30
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Basic Local Service										
Avg monthly cost per line	\$ 178.19	\$ 49.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72.42
@ Residence usage per line	\$ 177.82	\$ 49.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81.40
@ Business usage per line	\$ 179.08	\$ 50.84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50.84
Total switched lines	292	1,375	-	-	-	-	-	-	-	1,667
Primary residence lines	287	863	-	-	-	-	-	-	-	1,150
Secondary residence lines	5	22	-	-	-	-	-	-	-	27
Single line business lines	-	36	-	-	-	-	-	-	-	36
Multiline business lines	-	442	-	-	-	-	-	-	-	442
Public lines	-	12	-	-	-	-	-	-	-	12
FEDERAL FUND ANALYSIS										
Annual Support										
for line types:	Specify	Bench								
Primary residence lines	X	\$31.00	\$ 505,925	\$ 192,340	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 698,265
Secondary residence lines		\$31.00	\$ 8,617	\$ 4,995	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,612
Single line business lines	X	\$51.00	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0
Multiline business lines		\$51.00	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0
Public lines		\$51.00	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0
Support cost if all lines supported			\$ 514,543	\$ 197,335	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 711,877
Total annual support for specified lines										
@25% Federal allocation			\$ 126,481	\$ 48,085	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 174,566
@Implied 75% State allocation			\$ 379,444	\$ 144,255	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 523,699

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

\$20.00	\$ 543,830	\$ 306,215	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 850,045
\$30.00	\$ 509,371	\$ 202,692	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 712,063
\$40.00	\$ 474,912	\$ 99,169	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 574,081
\$50.00	\$ 440,454	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 440,454
\$60.00	\$ 405,995	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 405,995
\$70.00	\$ 371,536	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 371,536
\$80.00	\$ 337,077	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,077

STATE FUND ANALYSIS															
Annual Support for line types:		Specify	Bench mark												
Primary residence lines	X	\$31.00	\$	505,925	\$	192,340	\$	-	\$	-	\$	-	\$	698,265	
Secondary residence lines		\$31.00	\$	8,617	\$	4,995	\$	-	\$	-	\$	-	\$	13,612	
Single line business lines	X	\$51.00	\$	0	\$	-	\$	-	\$	-	\$	-	\$	0	
Multiline business lines		\$51.00	\$	0	\$	-	\$	-	\$	-	\$	-	\$	0	
Public lines		\$51.00	\$	0	\$	-	\$	-	\$	-	\$	-	\$	0	
Support cost if all lines supported			\$	514,543	\$	197,335	\$	-	\$	-	\$	-	\$	711,877	
<u>Total annual support for specified lines</u>				\$	505,925	\$	192,340	\$	-	\$	-	\$	-	\$	698,265
@75% State allocation				\$	379,444	\$	144,255	\$	-	\$	-	\$	-	\$	523,699
@Implied 25% Federal allocation				\$	126,481	\$	48,085	\$	-	\$	-	\$	-	\$	174,566

TOTAL FUND ANALYSIS														
25% Federal allocation from Federal Fund Analysis	\$	126,481	\$	48,085	\$	-	\$	-	\$	-	\$	-	\$	174,566
75% State allocation from State Fund Analysis	\$	379,444	\$	144,255	\$	-	\$	-	\$	-	\$	-	\$	523,699
Total Federal + State fund	\$	505,925	\$	192,340	\$	-	\$	-	\$	-	\$	-	\$	698,265

Module release date: 11/4/1997

COST OF NETWORK ELEMENTS

**Missouri
Rock Port 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	\$ 2,125	\$ 8,297	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,422
Unit Cost/month	0.61	0.48	-	-	-	-	-	-	-	0.50
Loop Distribution (DLC)										
Annual Cost	\$ 356,636	\$ 410,199	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 766,835
Unit Cost/month	101.76	23.53	-	-	-	-	-	-	-	36.62
Loop Distribution (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Distribution (all)										
Annual Cost	\$ 356,636	\$ 410,199	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 766,835
Unit Cost/month	101.76	23.53	-	-	-	-	-	-	-	36.62
Loop Concentration (DLC)										
Annual Cost	\$ 75,556	\$ 56,809	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,365
Unit Cost/month	21.56	3.26	-	-	-	-	-	-	-	6.32
Loop Concentration (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Concentration (all)										
Annual Cost	\$ 75,556	\$ 56,809	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,365
Unit Cost/month	21.56	3.26	-	-	-	-	-	-	-	6.32
Loop Feeder (DLC)										
Annual Cost	\$ 121,803	\$ 93,397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,199
Unit Cost/month	34.76	5.36	-	-	-	-	-	-	-	10.28
Loop Feeder (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Loop Feeder (all)										
Annual Cost	\$ 121,803	\$ 93,397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,199
Unit Cost/month	34.76	5.36	-	-	-	-	-	-	-	10.28
Total Loop (DLC)										
Annual Cost	\$ 556,119	\$ 568,702	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,124,821
Unit Cost/month	158.68	32.62	-	-	-	-	-	-	-	53.72
Total Loop (non-DLC)										
Annual Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unit Cost/month	-	-	-	-	-	-	-	-	-	-
Total Loop (all)										
Annual Cost	\$ 556,119	\$ 568,702	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,124,821
Unit Cost/month	158.68	32.62	-	-	-	-	-	-	-	53.72
Total lines	292	1,453	-	-	-	-	-	-	-	1,745
Total lines served by DLC	292	1,453	-	-	-	-	-	-	-	1,745

	Annual Cost	Units	Unit Cost
End office switching	\$ 249,716		
Line Port	74,915	1,667 switched lines	\$ 3.74 per line/month
Non-Line Port	174,801	19,545,162 actual minutes	\$ 0.00894 per actual minute (for rate per DEM, see "Cost detail" sheet)
Signaling network elements	\$ 13,631		
Links	9,855	4 links	\$ 210.24 per link per month
STP	2,473	11,066,826 TCAP+ISUP msgs	\$ 0.00022 per signaling message
SCP	1,304	1,122,800 TCAP queries	\$ 0.00116 per query
Transport network elements			
<i>Dedicated</i>			
Sw+Sp Transport	\$ 221,886	80 trunks	\$ 231.46 per DS-0 equivalent per month
Switched	5,555	2 trunks	\$ 0.02304 per minute
Special	216,331	78 trunks	
Transmission Terminal	32,931	80 trunks	\$ 34.35 per DS-0 equivalent per month
			\$ 0.00342 per minute
			\$ 0.02646 total per minute
<i>Common</i>			
Transport	\$ 235,042	8,470,425 minutes	\$ 0.02216 per minute per leg (orig or term)
Transmission Terminal	32,593	8,470,425 minutes	\$ 0.00307 per minute
			\$ 0.02523 total per minute
<i>Direct</i>			
Transport	\$ 80,411	1,137,417 minutes	\$ 0.07070 per minute
Transmission Terminal	10,545	1,137,417 minutes	\$ 0.00927 per minute
			\$ 0.07997 total per minute
Tandem switch	\$ 2,349	7,391,388 minutes	\$ 0.00032 per minute
Operator systems	\$ 37,847		
Public Telephones	\$ 4,599		
Total (w/ Public)	\$ 2,046,371		
Total cost of switched network elements (w/o Public)	\$ 87.14	per line/month	

	interconnected at		
	end office	tandem	wtd average
Local interconnection			
EO switching	\$ 0.00894	\$ 0.00894	
ISUP	\$ 0.00140	\$ 0.00140	
Common Transport	\$ -	\$ 0.02523	
Tandem Switching	\$ -	\$ 0.00032	
TOTAL	\$ 0.01034	\$ 0.03589	n/a

IXC switched access			
EO switching	\$ 0.00894	\$ 0.00894	
ISUP	\$ 0.00140	\$ 0.00140	
Dedicated Transport	\$ 0.02646	\$ 0.02646	
Common Transport	\$ -	\$ 0.02523	
Tandem Switching	\$ -	\$ 0.00032	
TOTAL	\$ 0.03680	\$ 0.06235	\$ 0.06235

Signaling detail			
cost per 800 call attempt (TCAP)	\$ 0.0028		
ISUP cost/transaction	\$ 0.00729		
ISUP cost/completion	0.0104		
IXC switched access MOU/comp	7.45		
ISUP cost/min	\$ 0.001397		
D link per month	\$ -		

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

Switch non-line port annual cost 174,801
Total DEMs 28,277,000
Cost per DEM \$ 0.00618

Dedicated Transport Costs Per Trunk			
DS-0 per month			
Transport per month	\$ 231.46		
Terminal per month *	\$ 425.97		
TOTAL	\$ 657.44		

DS-1 per month			
Transport per month	\$ 5,555.14		
Terminal per month	\$ 824.47		
TOTAL	\$ 6,379.61		

DS-3 per month			
Transport per month	\$ 155,544.02		
Terminal per month	\$ 2,331.82		
TOTAL	\$ 157,875.84		

Trunk Port Costs			
per trunk port (DS-0 equivalent) per month	\$ 2.89		
per trunk port minute	\$ 0.000287		

total EO usage per minute	\$ 0.008943		
trk port/min	\$ 0.000287		
other	\$ 0.008656		

	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)	28.9%	15.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.4%
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	116,444		
Total Lines	1,745		
Total Dedicated Terminal Investment per line	\$ 67		
Entrance Facility percent to total	\$ -		
Terminal Investment per DS-0	\$ 1,458		
Transport Investment per DS-0	\$ 10,601		

Network-Related Expenses

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
NID										
Annual Capital Cost	\$ 1,336	\$ 5,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,681
Network Expenses	\$ 287	\$ 982	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,269
Direct expense	\$ 1,623	\$ 6,328	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,950
Investment	\$ 8,347	\$ 33,408	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,755
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 492	\$ 1,918	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,409
Total	\$ 2,115	\$ 8,245	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,360
with carrier-to-carrier	\$ 2,116	\$ 8,261	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,377
Distribution (DLC)										
Annual Capital Cost	\$ 218,963	\$ 251,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,055
Network Expenses	\$ 53,356	\$ 61,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,103
Direct expense	\$ 272,319	\$ 312,839	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	585,158
Investment	\$ 1,355,572	\$ 1,562,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,918,100
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 82,528	\$ 94,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	177,336
Total	\$ 354,847	\$ 407,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	762,494
with carrier-to-carrier	\$ 355,090	\$ 408,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	763,510
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	\$ 218,963	\$ 251,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,055
Network Expenses	\$ 53,356	\$ 61,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,103
Direct expense	\$ 272,319	\$ 312,839	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	585,158
Investment	\$ 1,355,572	\$ 1,562,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,918,100
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 82,528	\$ 94,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	177,336
Total	\$ 354,847	\$ 407,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	762,494
with carrier-to-carrier	\$ 355,090	\$ 408,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	763,510
Concentrator (DLC)										
Annual Capital Cost	\$ 53,478	\$ 40,116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	93,594
Network Expenses	\$ 4,214	\$ 3,210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,424
Direct expense	\$ 57,693	\$ 43,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	101,018
Investment	\$ 274,428	\$ 207,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	481,528
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 17,484	\$ 13,130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	30,614
Total	\$ 75,177	\$ 56,456	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,633
with carrier-to-carrier	\$ 75,228	\$ 56,563	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,791
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	\$ 53,478	\$ 40,116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	93,594
Network Expenses	\$ 4,214	\$ 3,210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,424
Direct expense	\$ 57,693	\$ 43,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	101,018
Investment	\$ 274,428	\$ 207,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	481,528
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 17,484	\$ 13,130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	30,614
Total	\$ 75,177	\$ 56,456	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,633
with carrier-to-carrier	\$ 75,228	\$ 56,563	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,791
Feeder (DLC)										
Annual Capital Cost	\$ 73,971	\$ 56,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	130,882
Network Expenses	\$ 19,035	\$ 14,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	33,353
Direct expense	\$ 93,006	\$ 71,229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	164,235
Investment	\$ 476,713	\$ 362,832	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,546
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 28,186	\$ 21,586	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	49,772
Total	\$ 121,192	\$ 92,816	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	214,007
with carrier-to-carrier	\$ 121,274	\$ 92,992	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	214,266
Feeder (non-DLC)										
Annual Capital Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Network Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Direct expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-

Network-Related Expenses

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
with carrier-to-carrier	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Feeder (all)										
Annual Capital Cost	\$ 73,971	\$ 56,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	130,882
Network Expenses	\$ 19,035	\$ 14,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	33,353
Direct expense	\$ 93,006	\$ 71,229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	164,235
Investment	\$ 476,713	\$ 362,832	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	839,546
Support & Overhead per line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Support & Overhead per direct exp.	\$ 28,186	\$ 21,586	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	49,772
Total	\$ 121,192	\$ 92,816	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	214,007
with carrier-to-carrier	\$ 121,274	\$ 92,992	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	214,266
End Office Switching										
Annual Capital Cost	\$ 24,847	\$ 113,671	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	138,519
Network Expenses	\$ 8,365	\$ 39,384	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,750
Direct expense	\$ 33,213	\$ 153,056	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	186,268
Investment	\$ 154,703	\$ 708,670	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	863,372
Support expenses	\$ 5,982	\$ 32,591	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	38,573
Subtotal, with misc spt	\$ 39,195	\$ 185,646	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	224,841
Total, with var overhead	\$ 43,271	\$ 204,954	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	248,225
with carrier-to-carrier	\$ 43,301	\$ 205,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	248,633
Signaling										
Annual Capital Cost	\$ 3,156	\$ 4,949	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,105
Network Expenses	\$ 793	\$ 1,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,123
Direct expense	\$ 3,949	\$ 6,279	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,228
Investment	\$ 19,707	\$ 30,834	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	50,541
Support expenses	\$ 711	\$ 1,337	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,048
Subtotal, with misc spt	\$ 4,660	\$ 7,616	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,277
Total, with var overhead	\$ 5,145	\$ 8,408	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,553
with carrier-to-carrier	\$ 5,149	\$ 8,424	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,572
Dedicated Transport										
Annual Capital Cost	\$ 17,348	\$ 114,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,793
Network Expenses	\$ 4,409	\$ 29,089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	33,498
Direct expense	\$ 21,757	\$ 143,535	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	165,291
Investment	\$ 111,467	\$ 735,364	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	846,831
Support expenses	\$ 3,919	\$ 30,563	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	34,482
Subtotal, with misc spt	\$ 25,675	\$ 174,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	199,773
Total, with var overhead	\$ 28,346	\$ 192,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	220,550
with carrier-to-carrier	\$ 28,365	\$ 192,559	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	220,924
Dedicated Transport Transmission										
Annual Capital Cost	\$ 2,865	\$ 19,881	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	22,746
Network Expenses	\$ 224	\$ 1,557	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,782
Direct expense	\$ 3,090	\$ 21,438	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	24,528
Investment	\$ 14,668	\$ 101,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	116,444
Support expenses	\$ 556	\$ 4,565	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,121
Subtotal, with misc spt	\$ 3,646	\$ 26,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	29,649
Total, with var overhead	\$ 4,025	\$ 28,707	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	32,733
with carrier-to-carrier	\$ 4,028	\$ 28,760	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	32,788
Direct Transport										
Annual Capital Cost	\$ 13,136	\$ 34,819	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,955
Network Expenses	\$ 3,338	\$ 8,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,188
Direct expense	\$ 16,474	\$ 43,669	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	60,143
Investment	\$ 84,413	\$ 223,728	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	308,141
Support expenses	\$ 2,967	\$ 9,299	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,266
Subtotal, with misc spt	\$ 19,442	\$ 52,968	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	72,409
Total, with var overhead	\$ 21,464	\$ 58,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	79,940
with carrier-to-carrier	\$ 21,478	\$ 58,584	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	80,062
Direct Transport Transmission										
Annual Capital Cost	\$ 1,244	\$ 6,049	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,293
Network Expenses	\$ 97	\$ 474	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	571
Direct expense	\$ 1,341	\$ 6,522	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,864
Investment	\$ 6,368	\$ 30,964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	37,332
Support expenses	\$ 242	\$ 1,389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,630
Subtotal, with misc spt	\$ 1,583	\$ 7,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,494
Total, with var overhead	\$ 1,748	\$ 8,734	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,482
with carrier-to-carrier	\$ 1,749	\$ 8,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,499
Common Transport										
Annual Capital Cost	\$ 29,666	\$ 110,260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	139,926
Network Expenses	\$ 7,540	\$ 28,025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	35,565
Direct expense	\$ 37,205	\$ 138,285	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	175,490
Investment	\$ 190,630	\$ 708,471	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	899,101
Support expenses	\$ 6,701	\$ 29,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	36,147
Subtotal, with misc spt	\$ 43,906	\$ 167,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	211,637
Total, with var overhead	\$ 48,472	\$ 185,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	233,647
with carrier-to-carrier	\$ 48,506	\$ 185,517	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	234,023

Network-Related Expenses

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Common Transport Transmission										
Annual Capital Cost	\$ 3,374	\$ 19,154	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	22,528
Network Expenses	\$ 264	\$ 1,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,764
Direct expense	\$ 3,638	\$ 20,654	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	24,292
Investment	\$ 17,272	\$ 98,054	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,326
Support expenses	\$ 655	\$ 4,398	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,053
Subtotal, with misc spt	\$ 4,294	\$ 25,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	29,346
Total, with var overhead	\$ 4,740	\$ 27,657	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	32,398
with carrier-to-carrier	\$ 4,743	\$ 27,709	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	32,452
Tandem Switching										
Annual Capital Cost	\$ 200	\$ 942	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,142
Network Expenses	\$ 107	\$ 503	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	610
Direct expense	\$ 307	\$ 1,445	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,752
Investment	\$ 1,285	\$ 6,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,335
Support expenses	\$ 55	\$ 308	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	363
Subtotal, with misc spt	\$ 362	\$ 1,753	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,115
Total, with var overhead	\$ 400	\$ 1,935	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,335
with carrier-to-carrier	\$ 400	\$ 1,939	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,339
Operator Systems										
Annual Capital Cost	\$ 5,479	\$ 14,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	19,499
Network Expenses	\$ 2,147	\$ 7,158	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,305
Direct expense	\$ 7,626	\$ 21,178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	28,804
Investment	\$ 35,166	\$ 89,452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	124,618
Support expenses	\$ 1,226	\$ 4,049	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,275
Subtotal, with misc spt	\$ 8,852	\$ 25,228	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	34,079
Total, with var overhead	\$ 9,773	\$ 27,851	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	37,624
with carrier-to-carrier	\$ 9,779	\$ 27,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	37,683
Public Telephone										
Annual Capital Cost	\$ 237	\$ 1,587	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,824
Network Expenses	\$ 218	\$ 1,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,678
Direct expense	\$ 455	\$ 3,048	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,503
Investment	\$ 1,159	\$ 7,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,922
Support expenses	\$ 73	\$ 583	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	656
Subtotal, with misc spt	\$ 528	\$ 3,630	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,158
Total, with var overhead	\$ 583	\$ 4,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,591
with carrier-to-carrier	\$ 584	\$ 4,015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,599
Totals										
Annual Capital Cost	\$ 449,299	\$ 793,242	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,242,541
Network Expenses	\$ 104,396	\$ 199,590	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	303,985
Total	\$ 553,695	\$ 992,831	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,546,526
Investment	\$ 2,751,900	\$ 4,906,993	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,658,893
Supporting Network Expenses										
Capital Cost - Gent Support	\$ 23,080	\$ 41,154	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	64,234
Network Operations	\$ 9,085	\$ 45,193	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	54,277
Network Support	\$ 1,597	\$ 2,863	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,459
Other Taxes	\$ 32,136	\$ 59,132	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	91,269
Misc Expenses	\$ 23,131	\$ 41,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	64,606
Subtotal	\$ 89,028	\$ 189,817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	278,845
Carrier-carrier customer svc	\$ 494	\$ 2,455	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,949
Interoffice/Switching Net Ops	\$ 2,338	\$ 11,632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13,970
Interoffice/Sw Exp	\$ 120,974	\$ 534,883	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	655,857
Total Network Costs										
	\$ 645,061	\$ 1,194,280	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,839,341
Other costs										
Other Taxes	\$ 32,136	\$ 59,132	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	91,269
Monthly Cost Factors										
Loop	0.02229	0.02226	-	-	-	-	-	-	-	0.02268
Port	0.00719	0.00739	-	-	-	-	-	-	-	0.00736
Switching	0.00955	0.00981	-	-	-	-	-	-	-	0.00976
Signaling	0.00252	0.00758	-	-	-	-	-	-	-	0.00561
Transport	0.00322	0.00339	-	-	-	-	-	-	-	0.00336
Billing/Bill Inquiries (per line)	2.74	2.74	-	-	-	-	-	-	-	2.74
Directory Listing (per line)	-	-	-	-	-	-	-	-	-	-
LNP Expense (per line)	0.30	0.30	-	-	-	-	-	-	-	0.30
Inverse Carrier to Carrier Expense Factors	99.9316%	99.8157%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	99.8468%

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	\$ 1,534	0%	100%	\$ -	\$ 1,534
Furniture - Expenses	\$ 1,178	0%	100%	\$ -	\$ 1,178
Office Equipment - Capital Costs	\$ 4,380	0%	100%	\$ -	\$ 4,380
Office Equipment - Expenses	\$ 2,496	0%	100%	\$ -	\$ 2,496
General Purpose Computer - Capital Costs	\$ 9,152	0%	100%	\$ -	\$ 9,152
General Purpose Computer - Expenses	\$ 24,127	0%	100%	\$ -	\$ 24,127
Motor Vehicles - Capital Costs	\$ 5,522	0%	100%	\$ -	\$ 5,522
Motor Vehicles - Expenses	\$ 1,929	0%	100%	\$ -	\$ 1,929
Buildings - Capital Costs	\$ 11,038	0%	100%	\$ -	\$ 11,038
Buildings - Expenses	\$ 8,058	0%	100%	\$ -	\$ 8,058
Garage Work Eqpt. - Capital Costs	\$ 162	0%	100%	\$ -	\$ 162
Garage Work Eqpt. - Expenses	\$ 56	0%	100%	\$ -	\$ 56
Other Work Eqpt. - Capital Costs	\$ 3,864	0%	100%	\$ -	\$ 3,864
Other Work Eqpt. - Expenses	\$ 489	0%	100%	\$ -	\$ 489
Total General Support	\$ 73,984			\$ -	\$ 73,984
Network Operations	\$ 30,125	0%	100%	\$ -	\$ 30,125
Other Taxes	\$ 50,656	0%	100%	\$ -	\$ 50,656
Variable Overhead	\$ 105,365	0%	100%	\$ -	\$ 105,365
Totals	\$ 154,766			\$ -	\$ 260,132

	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	\$ 424,640	\$ 433,722	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 858,362
Non-Loop-related direct costs	\$ 129,055	\$ 559,109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 688,164
Total	\$ 553,695	\$ 992,831	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,546,526
Loop Fraction	76.69%	43.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	55.50%
Network Operations	\$ 9,085	\$ 45,193	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54,277

	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs
General Support - Totals			
Furniture - Capital Costs	\$ 2,764	\$ 1,534	\$ 1,230
Furniture - Expenses	\$ 2,122	\$ 1,178	\$ 944
Office Equipment - Capital Costs	\$ 7,891	\$ 4,380	\$ 3,511
Office Equipment - Expenses	\$ 4,496	\$ 2,496	\$ 2,001
General Purpose Computer - Capital Costs	\$ 16,489	\$ 9,152	\$ 7,337
General Purpose Computer - Expenses	\$ 43,469	\$ 24,127	\$ 19,343
Motor Vehicles - Capital Costs	\$ 9,950	\$ 5,522	\$ 4,427

Exp Assignment

Motor Vehicles - Expenses	\$ 3,476	\$ 1,929	\$ 1,547	
Buildings - Capital Costs	\$ 19,887	\$ 11,038	\$ 8,849	
Buildings - Expenses	\$ 14,518	\$ 8,058	\$ 6,460	
Garage Work Eqpt. - Capital Costs	\$ 291	\$ 162	\$ 130	
Garage Work Eqpt. - Expenses	\$ 101	\$ 56	\$ 45	
Other Work Eqpt. - Capital Costs	\$ 6,962	\$ 3,864	\$ 3,098	
Other Work Eqpt. - Expenses	\$ 882	\$ 489	\$ 392	
Total General Support	\$ 133,299	\$ 73,984	\$ 59,315	
Network Operations	\$ 54,277	\$ 30,125	\$ 24,152	
Other Taxes Calculation				
Total Direct Costs	\$ 1,546,526	\$ 858,362	\$ 688,164	\$ 1,546,526
Total Network Operations	\$ 54,277	\$ 30,125	\$ 24,152	\$ 54,277
Total General Support	\$ 133,299	\$ 73,984	\$ 59,315	\$ 160,334
Total	\$ 1,734,103	\$ 962,472	\$ 771,631	
Other Taxes	\$ 91,269	\$ 50,656	\$ 40,612	\$ 251,603
Total Expenses and Other Taxes	\$ 1,825,371	\$ 1,013,128	\$ 812,243	
Variable Overhead Calculation				
Variable Overhead	\$ 189,839	\$ 105,365	\$ 84,473	
Total Cost with Variable Overhead	2,015,210	1,118,494	896,716	

UNE Expense Assignment

Totals

NID

per line cost \$ -
per direct cost \$ 2,409
total \$ 2,409

Distribution (DLC)

per line cost \$ -
per direct cost \$ 177,336
total \$ 177,336

Distribution (non-DLC)

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

Concentrator (DLC)

per line cost \$ -
per direct cost \$ 30,614
total \$ 30,614

Concentrator (non-DLC)

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

Feeder (DLC)

per line cost \$ -
per direct cost \$ 49,772
total \$ 49,772

Feeder (non-DLC)

Exp Assignment

	<i>per line cost</i>	\$	-
	<i>per direct cost</i>	\$	-
	<i>total</i>	\$	-
End Office Switching	\$	242,718	
Signaling	\$	13,328	
Dedicated Transport	\$	215,384	
Dedicated Transport Transmission	\$	31,961	
Direct Transport	\$	78,370	
Direct Transport Transmission	\$	10,247	
Common Transport	\$	228,674	
Common Transport Transmission	\$	31,654	
Tandem Switching	\$	2,283	
Operator Systems	\$	37,534	
Public Telephone	\$	4,564	

COST SUMMARY

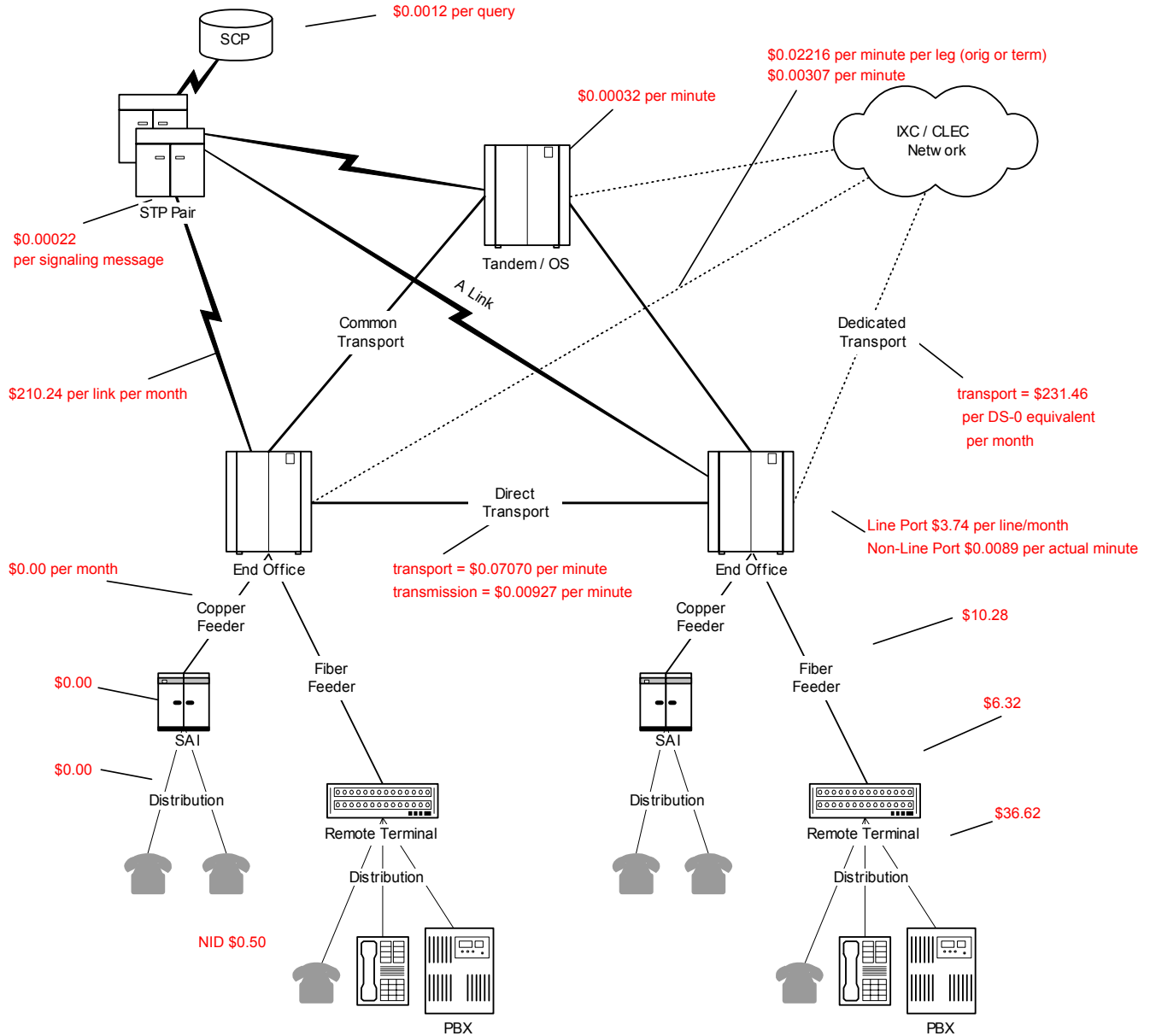
Missouri Rock Port Tel Co

			1	2	1 + 2	3	1 + 2 + 3		
Network Element	Investment *	% of total investment	Annual Capital Cost	Network Expenses	Direct Expense	Support Expense	Subtotal (with misc support)	Total (with carrier-to-carrier)	
NID	\$ 41,755	0.5%	\$ 6,681	\$ 1,269	\$ 7,950	\$ 2,409	\$ 10,360	\$ 10,377	
Distribution (DLC)	2,918,100	38.1%	470,055	115,103	585,158	177,336	762,494	763,510	
Distribution (non-DLC)	-	0.0%	-	-	-	-	-	-	
Distribution (all)	2,918,100	38.1%	470,055	115,103	585,158	177,336	762,494	763,510	
Concentrator (DLC)	481,528	6.3%	93,594	7,424	101,018	30,614	131,633	131,791	
Concentrator (non-DLC)	-	0.0%	-	-	-	-	-	-	
Concentrator (all)	481,528	6.3%	93,594	7,424	101,018	30,614	131,633	131,791	
Feeder (DLC)	839,546	11.0%	130,882	33,353	164,235	49,772	214,007	214,266	
Feeder (non-DLC)	-	0.0%	-	-	-	-	-	-	
Feeder (all)	839,546	11.0%	130,882	33,353	164,235	49,772	214,007	214,266	
End Office Switching	863,372	11.3%	138,519	47,750	186,268	38,573	224,841	248,633	
Signaling	50,541	0.7%	8,105	2,123	10,228	2,048	12,277	13,572	
Dedicated Transport	846,831	11.1%	131,793	33,498	165,291	34,482	199,773	220,924	
Dedicated Transport Transmission	116,444	1.5%	22,746	1,782	24,528	5,121	29,649	32,788	
Direct Transport	308,141	4.0%	47,955	12,188	60,143	12,266	72,409	80,062	
Direct Transport Transmission	37,332	0.5%	7,293	571	7,864	1,630	9,494	10,499	
Common Transport	899,101	11.7%	139,926	35,565	175,490	36,147	211,637	234,023	
Common Transport Transmission	115,326	1.5%	22,528	1,764	24,292	5,053	29,346	32,452	
Tandem Switching	7,335	0.1%	1,142	610	1,752	363	2,115	2,339	
Operator Systems	124,618	1.6%	19,499	9,305	28,804	5,275	34,079	37,683	
Public Telephone	8,922	0.1%	1,824	1,678	3,503	656	4,158	4,599	
Total Network Cost									
Total	\$ 7,658,893	100%	\$ 1,242,541	\$ 303,985	\$ 1,546,526	\$ 401,747	\$ 1,948,273	\$ 2,037,519	

* Post sharing

Unbundled Network Elements

Missouri / Rock Port Tel Co



USOA Detail Breakdown of HAI Model Costs

**Rock Port Tel Co
Missouri**

USOA	INVESTMENT DESCRIPTION	Cost \$(000)
Telecommunications Plant in Service		
2111	LAND	20
2112	MOTOR VEHICLES	52
2113	AIRCRAFT	
2114	SPECIAL PURPOSE VEHICLES	
2115	GARAGE WORK EQUIPMENT	1
2116	OTHER WORK EQUIPMENT	41
2121	BUILDINGS	261
2122	FURNITURE	17
2123.1	OFFICE SUPPORT EQUIPMENT	44
2123.2	COMPANY COMMUNICATIONS EQUIPMENT	
2124	GENERAL PURPOSE COMPUTERS	68
2110	TOTAL LAND & SUPPORT ASSETS	505
2212	DIGITAL ELECTRONIC SWITCHING	737
2220	OPERATOR SYSTEMS	4
2232	CIRCUIT EQUIPMENT	763
2351	PUBLIC TEL TERMINAL EQUIPMENT	9
2411	POLES	122
2421.1	AERIAL CABLE - METALLIC	71
2421.2	AERIAL CABLE - NonMETALLIC	87
2422.1	UNDERGROUND CABLE - METALLIC	0
2422.2	UNDERGROUND CABLE - NonMETALLIC	0
2423.1	BURIED CABLE - METALLIC	2,818
2423.2	BURIED CABLE - NonMETALLIC	2,899
2426.1	INTRABUILDING NETWORK CABLE - MET.	
2426.2	INTRABUILDING NETWORK CABLE - NonMET.	
2441	CONDUIT SYSTEMS	0
2410	TOTAL CABLE & WIRE FACILITIES	5,996
	Total TPIS (before amortizable assets)*	8,015

* 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 \$(000)
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	6
6121	LAND & BUILDINGS	32
6122	FURNITURE	3
6123	OFFICE EQUIPMENT	5
6124	GENERAL PURPOSE COMPUTERS	52
6120	LAND & SUPPORT ASSETS	91
6212	DIGITAL ELECTRONIC SWITCHING	35
6220	OPERATOR SYSTEMS	5
6232	CIRCUIT EQUIPMENT	12
6351	PUBLIC TEL TERMINAL EQUIPMENT	2
6411	POLES	5
6421	AERIAL CABLE	10
6422	UNDERGROUND CABLE	0
6423	BURIED CABLE	221
6426	INTRABUILDING NETWORK CABLE	
6441	CONDUIT SYSTEMS	0
6410	TOTAL CABLE & WIRE FACILITIES	236
	Total Plant Specific Expenses	387
Plant Nonspecific Operations		
	TOTAL NETWORK OPERATIONS SUPPORT	68
6561	DEPRECIATION TPIS	460
6623	CUSTOMER SERVICES	3
	Total Plant Nonspecific Operations	531
	TOTAL CORPORATE OPERATIONS	191
	TOTAL OPERATING EXPENSES	1,109
7240	OPERATING OTHER TAXES	91
	TOTAL EXPENSES & OPERATING TAXES	1,201

USOA Depreciation Calculations

	<u>Depl life</u>	<u>DepFact</u>	<u>Dep Exp</u>
2111			
2112	10.45	0.09589	5
2113			
2114			
2115	9.97	0.10031	0
2116	13.92	0.07189	3
2121	48.73	0.02052	5
2122	18.36	0.05449	1
2123.1	12.44	0.08052	4
2123.2	7.99	0.12517	-
2124	6.61	0.15223	10
2110			
2212	17.17	0.05827	43
2220	9.25	0.10829	0
2232	9.90	0.10108	77
2351	8.98	0.11145	1
2411	8.38	0.11972	15
2421.1	13.61	0.07355	5
2421.2	18.92	0.05286	5
2422.1	17.88	0.05596	-
2422.2	20.14	0.04966	-
2423.1	18.36	0.05450	154
2423.2	21.97	0.04551	132
2426.1	13.57	0.07377	-
2426.2	21.37	0.04681	-
2441	46.15	0.02167	-
<i>Total Depreciation</i>			<i>460</i>

Network Element Disaggregations

<u>Investment Disaggregations:</u>		<u>Expense Disaggregations:</u>	
<i>Terminal, Drop, and NID</i>		<i>Terminal, Drop, and NID</i>	
Aerial-m portion	333,762	Aerial portion	12,588
Buried-m portion	8,256	Buried portion	606
	325,506		11,981
<i>OS Trks + Signaling links</i>		<i>OS Trks + Signaling links</i>	
Circuit Eqpt. portion	155,664	Circuit Eqpt. portion	6,034
Pole portion	25,944	Pole portion	1,006
Aerial-nm portion	2,044	Aerial-nm portion	83
Underground-nm portion	3,459	Underground-nm portion	213
Buried-nm portion	-	Buried-nm portion	-
Conduit portion	124,217	Conduit portion	4,732
	-		-
<i>SAI</i>		<i>SAI</i>	
Aerial-m portion	13,250	Aerial portion	260
Aerial-nm portion	-	Underground portion	9
Underground-m portion	451	Buried portion	-
Underground-nm portion	-		251
Buried-m portion	-		
Buried-nm portion	12,799		

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	\$ 6,228	\$ 11,105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	17,333
office equipment	15,917	28,383	-	-	-	-	-	-	-	44,300
general purpose computers	24,478	43,647	-	-	-	-	-	-	-	68,124
motor vehicles	18,729	33,396	-	-	-	-	-	-	-	52,125
buildings	47,306	84,352	-	-	-	-	-	-	-	131,658
garage work equipment	537	958	-	-	-	-	-	-	-	1,496
other work equipment	14,595	26,025	-	-	-	-	-	-	-	40,619
TOTAL	\$ 127,790	\$ 227,866	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	355,656
Levelized Cost of Capital										
furniture	\$ 993	\$ 1,771	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,764
office equipment	2,835	5,055	-	-	-	-	-	-	-	7,891
general purpose computers	5,924	10,564	-	-	-	-	-	-	-	16,489
motor vehicles	3,575	6,375	-	-	-	-	-	-	-	9,950
buildings	7,146	12,742	-	-	-	-	-	-	-	19,887
garage work equipment	105	187	-	-	-	-	-	-	-	291
other work equipment	2,501	4,460	-	-	-	-	-	-	-	6,962
TOTAL	\$ 23,080	\$ 41,154	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	64,234

Distribution

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-6000	6000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Fiber Feeder										
Distribution Investment										
buried cable	\$ 451,287	\$ 797,891	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,249,178
aerial cable	22,838	40,379	-	-	-	-	-	-	-	63,218
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	779,970	463,255	-	-	-	-	-	-	-	1,243,225
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	46,704	23,769	-	-	-	-	-	-	-	70,473
terminal	24,517	121,966	-	-	-	-	-	-	-	146,483
drop	30,256	115,268	-	-	-	-	-	-	-	145,523
TOTAL	\$ 1,355,572	\$ 1,562,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,918,100
	46.45%	53.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 71,970	\$ 127,245	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	199,215
aerial cable	3,943	6,972	-	-	-	-	-	-	-	10,915
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	124,387	73,879	-	-	-	-	-	-	-	198,266
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	9,898	5,038	-	-	-	-	-	-	-	14,936
terminal	3,923	19,515	-	-	-	-	-	-	-	23,438
drop	4,841	18,443	-	-	-	-	-	-	-	23,285
TOTAL	\$ 218,963	\$ 251,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,055
Network Expenses										
buried cable	17,545	31,021	-	-	-	-	-	-	-	48,566
aerial cable	1,436	2,539	-	-	-	-	-	-	-	3,976
underground cable	-	-	-	-	-	-	-	-	-	-
buried trenching	30,324	18,011	-	-	-	-	-	-	-	48,335
conduit	-	-	-	-	-	-	-	-	-	-
underground trenching	-	-	-	-	-	-	-	-	-	-
poles	1,928	981	-	-	-	-	-	-	-	2,909
terminal	950	4,727	-	-	-	-	-	-	-	5,678
drop	1,173	4,468	-	-	-	-	-	-	-	5,641
TOTAL	\$ 53,356	\$ 61,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,103
Summary										
Cost of Capital	\$ 218,963	\$ 251,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,055
Network Expense	53,356	61,747	-	-	-	-	-	-	-	115,103
TOTAL	\$ 272,319	\$ 312,839	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	585,158
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	\$ 451,287	\$ 797,891	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,249,178
aerial cable	\$ 22,838	\$ 40,379	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	63,218
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 779,970	\$ 463,255	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,243,225
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 46,704	\$ 23,769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	70,473
terminal	\$ 24,517	\$ 121,966	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	146,483
drop	\$ 30,256	\$ 115,268	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	145,523
TOTAL	\$ 1,355,572	\$ 1,562,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,918,100
	46.45%	53.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
buried cable	\$ 71,970	\$ 127,245	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	199,215
aerial cable	\$ 3,943	\$ 6,972	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,915
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 124,387	\$ 73,879	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	198,266
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 9,898	\$ 5,038	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	14,936
terminal	\$ 3,923	\$ 19,515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,438
drop	\$ 4,841	\$ 18,443	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	23,285
TOTAL	\$ 218,963	\$ 251,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,055
Network Expenses										
buried cable	\$ 17,545	\$ 31,021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,566
aerial cable	\$ 1,436	\$ 2,539	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,976
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried trenching	\$ 30,324	\$ 18,011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48,335
conduit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
underground trenching	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
poles	\$ 1,928	\$ 981	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,909
terminal	\$ 950	\$ 4,727	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,678
drop	\$ 1,173	\$ 4,468	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5,641
TOTAL	\$ 53,356	\$ 61,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,103
Summary										
Cost of Capital	\$ 218,963	\$ 251,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	470,055
Network Expense	\$ 53,356	\$ 61,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,103
TOTAL	\$ 272,319	\$ 312,839	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	585,158
NID Cost										
NID Investment	\$ 8,347	\$ 33,408	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	41,755
Levelized Cost of Capital	\$ 1,336	\$ 5,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,681
Network Expenses	\$ 287	\$ 982	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,269
TOTAL	\$ 1,623	\$ 6,328	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,950

Concentrator

	0-5		5-100		100-200		200-650		650-850		850-2550		2550-5000		5000-10000		>10000		Totals											
	lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m													
Fiber Feeder																														
Concentrator Investment																														
DLC Investment	\$	270,778	\$	197,500	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	468,278											
SAI Investment		3,650		9,600		-		-		-		-		-		-		-	13,250											
																			\$	-										
TOTAL	\$	274,428	\$	207,100	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	481,528											
																				56.99%	43.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Levelized Cost of Capital																														
DLC	\$	52,894	\$	38,580	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	91,474											
SAI		584		1,536		-		-		-		-		-		-		-	2,120											
TOTAL	\$	53,478	\$	40,116	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	93,594											
Network Expenses																														
DLC	\$	4,143	\$	3,022	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7,165											
SAI		72		188		-		-		-		-		-		-		-	260											
TOTAL	\$	4,214	\$	3,210	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7,424											
Summary																														
Cost of Capital	\$	53,478	\$	40,116	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	93,594											
Network Expense		4,214		3,210		-		-		-		-		-		-		-	7,424											
TOTAL	\$	57,693	\$	43,326	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	101,018											
	0-5		5-100		100-200		200-650		650-850		850-2550		2550-5000		5000-10000		>10000		Totals											
	lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m													
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		5-100		100-200		200-650		650-850		850-2550		2550-5000		5000-10000		>10000		Totals											
	lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m		lines/sq m													
Total																														
Concentrator Investment																														
DLC Investment	\$	270,778	\$	197,500	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	468,278											
SAI Investment		3,650		9,600		-		-		-		-		-		-		-	13,250											
TOTAL	\$	274,428	\$	207,100	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	481,528											
																			56.99%	43.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		

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	\$	52,894	\$	38,580	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	91,474
SAI		584		1,536		-		-		-		-		-		-		-	2,120
TOTAL	\$	53,478	\$	40,116	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	93,594
Network Expenses																			
DLC	\$	4,143	\$	3,022	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7,165
SAI		72		188		-		-		-		-		-		-		-	260
TOTAL	\$	4,214	\$	3,210	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	7,424
Summary																			
Cost of Capital	\$	53,478	\$	40,116	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	93,594
Network Expense		4,214		3,210		-		-		-		-		-		-		-	7,424
TOTAL	\$	57,693	\$	43,326	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	101,018

Feeder

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Fiber Feeder										
Feeder Investment										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	417,127	149,197	-	-	-	-	-	-	-	566,324
fiber buried cable	20,542	7,486	-	-	-	-	-	-	-	28,028
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	35,890	192,548	-	-	-	-	-	-	-	228,437
poles	3,156	13,602	-	-	-	-	-	-	-	16,757
TOTAL	\$ 476,713	\$ 362,832	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 839,546
	56.78%	43.22%	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	64,497	23,069	-	-	-	-	-	-	-	87,566
fiber aerial cable	3,256	1,187	-	-	-	-	-	-	-	4,442
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	5,549	29,772	-	-	-	-	-	-	-	35,322
poles	669	2,683	-	-	-	-	-	-	-	3,551
TOTAL	\$ 73,971	\$ 56,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130,882
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	16,217	5,801	-	-	-	-	-	-	-	22,018
fiber aerial cable	1,292	471	-	-	-	-	-	-	-	1,763
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	1,395	7,486	-	-	-	-	-	-	-	8,881
poles	130	561	-	-	-	-	-	-	-	692
TOTAL	\$ 19,035	\$ 14,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,353
Summary										
Cost of Capital	\$ 73,971	\$ 56,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130,882
Network Expense	19,035	14,319	-	-	-	-	-	-	-	33,353
TOTAL	\$ 93,006	\$ 71,229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164,235

	0-5	5-100	100-200	200-650	650-850	850-2550	2550-5000	5000-10000	>10000	Totals
	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	lines/sq mi	
Copper Feeder										
Feeder Investment										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Levelized Cost of Capital										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-

Feeder

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	-	-	-	-	-	-	-	-	-	-
fiber aerial cable	-	-	-	-	-	-	-	-	-	-
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	-	-	-	-	-	-	-	-	-	-
poles	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Summary										
Cost of Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Network Expense	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Total										
Feeder Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
copper u/g cable	-	-	-	-	-	-	-	-	-	-
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	417,127	149,197	-	-	-	-	-	-	-	566,324
fiber aerial cable	20,542	7,486	-	-	-	-	-	-	-	28,028
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	35,890	192,548	-	-	-	-	-	-	-	228,437
poles	3,156	13,602	-	-	-	-	-	-	-	16,757
TOTAL	\$ 476,713	\$ 362,832	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 839,546
	56.78%	43.22%	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	64,497	23,069	-	-	-	-	-	-	-	87,566
fiber aerial cable	3,256	1,187	-	-	-	-	-	-	-	4,442
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	5,549	29,772	-	-	-	-	-	-	-	35,322
poles	669	2,883	-	-	-	-	-	-	-	3,551
TOTAL	\$ 73,971	\$ 56,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130,882
Network Expenses										
copper u/g cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
copper buried cable	-	-	-	-	-	-	-	-	-	-
copper aerial cable	-	-	-	-	-	-	-	-	-	-
fiber u/g cable	-	-	-	-	-	-	-	-	-	-
fiber buried cable	16,217	5,801	-	-	-	-	-	-	-	22,018
fiber aerial cable	1,292	471	-	-	-	-	-	-	-	1,763
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
copper u/g placement	-	-	-	-	-	-	-	-	-	-
fiber u/g placement	-	-	-	-	-	-	-	-	-	-
copper buried placement	-	-	-	-	-	-	-	-	-	-
fiber buried placement	1,395	7,486	-	-	-	-	-	-	-	8,881
poles	130	561	-	-	-	-	-	-	-	692
TOTAL	\$ 19,035	\$ 14,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,353
Summary										
Cost of Capital	\$ 73,971	\$ 56,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130,882
Network Expense	19,035	14,319	-	-	-	-	-	-	-	33,353
TOTAL	\$ 93,006	\$ 71,229	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164,235

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	\$ 126,292	\$ 594,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	720,872
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	21,461	101,039	-	-	-	-	-	-	-	122,500
land	6,949	13,051	-	-	-	-	-	-	-	20,000
TOTAL	\$ 154,703	\$ 708,670	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	863,372
	17.92%	82.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
end office switching	\$ 20,436	\$ 96,213	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	116,650
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	3,242	15,262	-	-	-	-	-	-	-	18,504
land	1,169	2,196	-	-	-	-	-	-	-	3,365
TOTAL	\$ 24,847	\$ 113,671	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	138,519
Network Expenses										
end office switching	\$ 5,999	\$ 28,243	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	34,241
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	2,367	11,142	-	-	-	-	-	-	-	13,508
land	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 8,365	\$ 39,384	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,750
Summary										
Cost of Capital	\$ 24,847	\$ 113,671	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	138,519
Network Expense	8,365	39,384	-	-	-	-	-	-	-	47,750
TOTAL	\$ 33,213	\$ 153,056	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	186,268

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	\$ 730	\$ 3,437	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4,168
SCP wire center	117	550	-	-	-	-	-	-	-	667
STP	1,606	7,562	-	-	-	-	-	-	-	9,169
signaling links	17,254	19,284	-	-	-	-	-	-	-	36,538
TOTAL	\$ 19,707	\$ 30,834	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	50,541
	38.99%	61.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
SCP	\$ 118	\$ 556	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	674
SCP wire center	18	83	-	-	-	-	-	-	-	101
STP	260	1,224	-	-	-	-	-	-	-	1,484
signaling links	2,761	3,086	-	-	-	-	-	-	-	5,846
TOTAL	\$ 3,156	\$ 4,949	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,105
Network Expenses										
SCP	\$ 35	\$ 163	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	198
SCP wire center	13	61	-	-	-	-	-	-	-	74
STP	76	359	-	-	-	-	-	-	-	436
signaling links	669	747	-	-	-	-	-	-	-	1,416
TOTAL	\$ 793	\$ 1,331	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,123
Summary										
Cost of Capital	\$ 3,156	\$ 4,949	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,105
Network Expense	793	1,331	-	-	-	-	-	-	-	2,123
TOTAL	\$ 3,949	\$ 6,279	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10,228

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	106,738	704,117	-	-	-	-	-	-	-	810,854
aerial cable	2,972	19,636	-	-	-	-	-	-	-	22,608
poles	1,757	11,612	-	-	-	-	-	-	-	13,369
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 111,467	\$ 735,364	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	846,831
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	16,504	108,872	-	-	-	-	-	-	-	125,376
aerial cable	471	3,112	-	-	-	-	-	-	-	3,583
poles	372	2,461	-	-	-	-	-	-	-	2,833
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 17,348	\$ 114,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,793
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	4,150	27,375	-	-	-	-	-	-	-	31,525
aerial cable	187	1,235	-	-	-	-	-	-	-	1,422
poles	73	479	-	-	-	-	-	-	-	552
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 4,409	\$ 29,089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	33,498
Summary										
Cost of Capital	\$ 17,348	\$ 114,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	131,793
Network Expense	4,409	29,089	-	-	-	-	-	-	-	33,498
TOTAL	\$ 21,757	\$ 143,535	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	165,291
Transmission Terminal										
investment	\$ 14,668	\$ 101,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	116,444
levelized cost of capital	2,865	19,881	-	-	-	-	-	-	-	22,746
network expenses	224	1,557	-	-	-	-	-	-	-	1,782
TOTAL	\$ 3,090	\$ 21,438	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	24,528

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	80,878	214,221	-	-	-	-	-	-	-	295,099
aerial cable	2,225	5,974	-	-	-	-	-	-	-	8,199
poles	1,310	3,533	-	-	-	-	-	-	-	4,843
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 84,413	\$ 223,728	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	308,141
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	12,506	33,123	-	-	-	-	-	-	-	45,629
aerial cable	353	947	-	-	-	-	-	-	-	1,299
poles	278	749	-	-	-	-	-	-	-	1,026
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 13,136	\$ 34,819	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,955
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	3,144	8,329	-	-	-	-	-	-	-	11,473
aerial cable	140	376	-	-	-	-	-	-	-	516
poles	54	146	-	-	-	-	-	-	-	200
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 3,338	\$ 8,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,188
Summary										
Cost of Capital	\$ 13,136	\$ 34,819	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	47,955
Network Expense	3,338	8,850	-	-	-	-	-	-	-	12,188
TOTAL	\$ 16,474	\$ 43,669	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	60,143
Transmission Terminal										
investment	\$ 6,368	\$ 30,964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	37,332
levelized cost of capital	1,244	6,049	-	-	-	-	-	-	-	7,293
network expenses	97	474	-	-	-	-	-	-	-	571
TOTAL	\$ 1,341	\$ 6,522	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,864

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	182,619	678,366	-	-	-	-	-	-	-	860,984
aerial cable	5,040	18,918	-	-	-	-	-	-	-	23,958
poles	2,971	11,188	-	-	-	-	-	-	-	14,159
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 190,630	\$ 708,471	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	899,101
Levelized Cost of Capital										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	28,237	104,891	-	-	-	-	-	-	-	133,128
aerial cable	799	2,998	-	-	-	-	-	-	-	3,797
poles	630	2,371	-	-	-	-	-	-	-	3,001
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 29,666	\$ 110,260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	139,926
Network Expenses										
underground cable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
buried cable	7,100	26,374	-	-	-	-	-	-	-	33,474
aerial cable	317	1,190	-	-	-	-	-	-	-	1,507
poles	123	462	-	-	-	-	-	-	-	584
conduit	-	-	-	-	-	-	-	-	-	-
manholes	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 7,540	\$ 28,025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	35,565
Summary										
Cost of Capital	\$ 29,666	\$ 110,260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	139,926
Network Expense	7,540	28,025	-	-	-	-	-	-	-	35,565
TOTAL	\$ 37,205	\$ 138,285	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	175,490
Transmission Terminal										
investment	\$ 17,272	\$ 98,054	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	115,326
levelized cost of capital	3,374	19,154	-	-	-	-	-	-	-	22,528
network expenses	264	1,500	-	-	-	-	-	-	-	1,764
TOTAL	\$ 3,638	\$ 20,654	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	24,292

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	\$ 555	\$ 2,612	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,167
wire center	730	3,437	-	-	-	-	-	-	-	4,168
TOTAL	\$ 1,285	\$ 6,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,335
Levelized Cost of Capital										
tandem switching	\$ 90	\$ 423	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	513
wire center	110	519	-	-	-	-	-	-	-	630
TOTAL	\$ 200	\$ 942	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,142
Network Expenses										
tandem switching	\$ 26	\$ 124	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	150
wire center	81	379	-	-	-	-	-	-	-	460
TOTAL	\$ 107	\$ 503	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	610
Summary										
Cost of Capital	\$ 200	\$ 942	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,142
Network Expense	107	503	-	-	-	-	-	-	-	610
TOTAL	\$ 307	\$ 1,445	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,752

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	\$ 234	\$ 1,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,334
OS Tandem Wire Center	292	1,375	-	-	-	-	-	-	-	1,667
OS Trunks	34,204	84,922	-	-	-	-	-	-	-	119,126
OS Position	436	2,055	-	-	-	-	-	-	-	2,491
TOTAL	\$ 35,166	\$ 89,452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	124,618
Levelized Cost of Capital										
OS Tandem Switching	\$ 38	\$ 178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	216
OS Tandem Wire Center	44	208	-	-	-	-	-	-	-	252
OS Trunks	5291.217476	13137.25135	0	0	0	0	0	0	0	18,428
OS Position	106	497	-	-	-	-	-	-	-	603
TOTAL	\$ 5,479	\$ 14,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	19,499
Network Expenses										
OS Tandem Switching	\$ 11	\$ 52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	63
OS Tandem Wire Center	32	152	-	-	-	-	-	-	-	184
OS Trunks	1,326	3,292	-	-	-	-	-	-	-	4,617
OS Position	29	139	-	-	-	-	-	-	-	168
Operator Wages	749	3,524	-	-	-	-	-	-	-	4,273
TOTAL	\$ 2,147	\$ 7,158	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	9,305
Summary										
Cost of Capital	\$ 5,479	\$ 14,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	19,499
Network Expense	2,147	7,158	-	-	-	-	-	-	-	9,305
TOTAL	\$ 7,626	\$ 21,178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	28,804

Public Telephone

	0-5 lines/sq m	5-100 lines/sq m	100-200 lines/sq m	200-650 lines/sq m	650-850 lines/sq m	850-2550 lines/sq m	2550-5000 lines/sq m	5000-10000 lines/sq m	>10000 lines/sq m	Totals
Public Telephone Investment	\$ 1,159	\$ 7,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8,922
	12.99%	87.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Levelized Cost of Capital	\$ 237	\$ 1,587	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,824
Network Expenses	\$ 218	\$ 1,460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,678
Summary										
Cost of Capital	\$ 237	\$ 1,587	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,824
Network Expense	218	1,460	-	-	-	-	-	-	-	1,678
TOTAL	\$ 455	\$ 3,048	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,503

DeprecLife	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	
CCF-Fact	0.15007	0.15004	0.15003	0.15005	0.15008	0.15013	0.15019	0.15026	0.15034	0.15044	0.15053	0.15064	0.15074	0.15085	0.15097	0.15108	0.15120	0.15132	0.15144	0.15156	0.15168	0.15179	0.15191	0.15203	0.15214	0.15226	0.15237	0.15248	0.15259	0.15270	0.15280	0.15290	0.15301	
DeprecFact	0.02041	0.02057	0.02073	0.02073	0.02052	0.02564	0.02500	0.02439	0.02381	0.02236	0.02273	0.02222	0.02174	0.02128	0.02083	0.02041	0.02000	0.01961	0.01923	0.01887	0.01852	0.01818	0.01786	0.01754	0.01724	0.01695	0.01667	0.01639	0.01613	0.01587	0.01563	0.01538	0.01515	
ROF-Fact	0.08481	0.08538	0.08593	0.08647	0.08699	0.08750	0.08799	0.08847	0.08894	0.08939	0.08983	0.09026	0.09068	0.09108	0.09147	0.09185	0.09222	0.09258	0.09293	0.09327	0.09360	0.09391	0.09423	0.09453	0.09482	0.09511	0.09538	0.09565	0.09592	0.09617	0.09642	0.09666	0.09690	
Fax-GuFact	0.15086	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	
COE	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	
NPV-EoP	1.29477	1.29808	1.30124	1.30426	1.30715	1.30991	1.31255	1.31508	1.31751	1.31984	1.32207	1.32421	1.32627	1.32825	1.33016	1.33199	1.33376	1.33546	1.33710	1.33868	1.34021	1.34168	1.34311	1.34448	1.34581	1.34710	1.34835	1.34955	1.35072	1.35185	1.35295	1.35402	1.35505	
NPV-BoP	1.44043	1.44411	1.44763	1.45099	1.45420	1.45727	1.46021	1.46303	1.46573	1.46831	1.47080	1.47318	1.47548	1.47768	1.47980	1.48184	1.48380	1.48569	1.48752	1.48928	1.49098	1.49262	1.49420	1.49573	1.49721	1.49864	1.50003	1.50137	1.50267	1.50393	1.50515	1.50634	1.50749	
Pmc-EoP	0.15806	0.15803	0.15802	0.15804	0.15807	0.15812	0.15819	0.15826	0.15835	0.15845	0.15855	0.15866	0.15877	0.15889	0.15901	0.15913	0.15925	0.15938	0.15950	0.15963	0.15975	0.15988	0.16000	0.16012	0.16025	0.16037	0.16048	0.16060	0.16071	0.16083	0.16094	0.16105	0.16115	
Pmc-BoP	0.14208	0.14205	0.14204	0.14206	0.14209	0.14213	0.14219	0.14226	0.14234	0.14242	0.14252	0.14261	0.14272	0.14282	0.14293	0.14304	0.14315	0.14326	0.14337	0.14349	0.14360	0.14371	0.14382	0.14393	0.14404	0.14415	0.14426	0.14436	0.14446	0.14456	0.14466	0.14476	0.14486	
Year	1	0.18711	0.18633	0.18560	0.18491	0.18426	0.18364	0.18305	0.18249	0.18195	0.18144	0.18096	0.18049	0.18005	0.17962	0.17921	0.17882	0.17845	0.17809	0.17774	0.17741	0.17709	0.17678	0.17648	0.17619	0.17591	0.17564	0.17538	0.17513	0.17489	0.17465	0.17442	0.17420	0.17399
2	0.18240	0.18176	0.18116	0.18059	0.18005	0.17953	0.17905	0.17858	0.17814	0.17772	0.17732	0.17694	0.17657	0.17622	0.17588	0.17556	0.17525	0.17495	0.17466	0.17439	0.17412	0.17387	0.17362	0.17338	0.17315	0.17293	0.17271	0.17251	0.17231	0.17211	0.17192	0.17174	0.17156	
3	0.17769	0.17719	0.17671	0.17626	0.17583	0.17543	0.17505	0.17468	0.17433	0.17400	0.17368	0.17338	0.17309	0.17281	0.17255	0.17229	0.17205	0.17181	0.17158	0.17137	0.17116	0.17096	0.17076	0.17057	0.17039	0.17022	0.17005	0.16988	0.16972	0.16957	0.16942	0.16928	0.16914	
4	0.17298	0.17262	0.17227	0.17194	0.17162	0.17133	0.17104	0.17078	0.17052	0.17028	0.17004	0.16982	0.16961	0.16941	0.16921	0.16902	0.16885	0.16867	0.16851	0.16839	0.16829	0.16819	0.16809	0.16799	0.16789	0.16779	0.16769	0.16759	0.16749	0.16739	0.16729	0.16719	0.16709	
5	0.16828	0.16804	0.16782	0.16761	0.16741	0.16722	0.16704	0.16687	0.16671	0.16656	0.16641	0.16627	0.16613	0.16600	0.16588	0.16576	0.16564	0.16553	0.16543	0.16533	0.16523	0.16514	0.16504	0.16496	0.16487	0.16479	0.16471	0.16464	0.16456	0.16449	0.16442	0.16435	0.16429	
6	0.16357	0.16347	0.16337	0.16328	0.16320	0.16312	0.16304	0.16297	0.16290	0.16283	0.16277	0.16271	0.16265	0.16260	0.16254	0.16249	0.16244	0.16240	0.16235	0.16231	0.16227	0.16223	0.16219	0.16215	0.16211	0.16208	0.16204	0.16201	0.16198	0.16195	0.16192	0.16189	0.16186	
7	0.15886	0.15890	0.15893	0.15896	0.15899	0.15901	0.15904	0.15907	0.15911	0.15913	0.15915	0.15917	0.15919	0.15921	0.15923	0.15924	0.15926	0.15927	0.15929	0.15930	0.15932	0.15933	0.15934	0.15935	0.15937	0.15938	0.15939	0.15940	0.15941	0.15942	0.15943	0.15944	0.15945	
8	0.15416	0.15432	0.15448	0.15463	0.15478	0.15491	0.15504	0.15516	0.15528	0.15539	0.15549	0.15560	0.15570	0.15581	0.15592	0.15602	0.15612	0.15622	0.15632	0.15642	0.15652	0.15662	0.15672	0.15682	0.15692	0.15702	0.15712	0.15722	0.15732	0.15742	0.15752	0.15762	0.15772	
9	0.14945	0.14975	0.15004	0.15031	0.15056	0.15081	0.15104	0.15126	0.15147	0.15167	0.15186	0.15204	0.15221	0.15238	0.15254	0.15269	0.15284	0.15298	0.15312	0.15325	0.15337	0.15350	0.15361	0.15373	0.15383	0.15394	0.15404	0.15414	0.15424	0.15434	0.15444	0.15454	0.15464	
10	0.14474	0.14518	0.14559	0.14598	0.14635	0.14670	0.14704	0.14735	0.14766	0.14794	0.14822	0.14848	0.14873	0.14897	0.14921	0.14943	0.14964	0.14984	0.15004	0.15023	0.15041	0.15059	0.15075	0.15092	0.15108	0.15123	0.15137	0.15152	0.15165	0.15179	0.15192	0.15204	0.15216	
11	0.14003	0.14061	0.14115	0.14166	0.14214	0.14260	0.14304	0.14345	0.14385	0.14424	0.14458	0.14493	0.14525	0.14557	0.14587	0.14616	0.14644	0.14671	0.14696	0.14721	0.14745	0.14768	0.14790	0.14811	0.14832	0.14851	0.14871	0.14889	0.14897	0.14925	0.14942	0.14958	0.14974	
12	0.13533	0.13603	0.13670	0.13733	0.13793	0.13850	0.13903	0.13955	0.14004	0.14050	0.14094	0.14137	0.14178	0.14216	0.14254	0.14289	0.14324	0.14357	0.14388	0.14419	0.14448	0.14477	0.14504	0.14530	0.14556	0.14580	0.14604	0.14627	0.14649	0.14671	0.14691	0.14712	0.14731	
13	0.13062	0.13146	0.13225	0.13301	0.13372	0.13439	0.13503	0.13564	0.13622	0.13678	0.13731	0.13781	0.13830	0.13876	0.13920	0.13963	0.14004	0.14043	0.14081	0.14117	0.14152	0.14186	0.14218	0.14249	0.14280	0.14309	0.14337	0.14365	0.14391	0.14417	0.14441	0.14465	0.14489	
14	0.12591	0.12689	0.12781	0.12868	0.12951	0.13029	0.13104	0.13174	0.13241	0.13306	0.13367	0.13426	0.13482	0.13535	0.13587	0.13636	0.13684	0.13729	0.13773	0.13815	0.13855	0.13895	0.13932	0.13969	0.14004	0.14038	0.14070	0.14102	0.14133	0.14163	0.14191	0.14219	0.14246	
15	0.12120	0.12231	0.12336	0.12435	0.12529	0.12618	0.12703	0.12784	0.12860	0.12933	0.13003	0.13070	0.13134	0.13195	0.13253	0.13310	0.13363	0.13415	0.13465	0.13513	0.13559	0.13604	0.13646	0.13688	0.13728	0.13766	0.13804	0.13840	0.13875	0.13909	0.13941	0.13973	0.14004	
16	0.11650	0.11774	0.11892	0.12003	0.12108	0.12208	0.12303	0.12393	0.12479	0.12561	0.12640	0.12714	0.12786	0.12854	0.12920	0.12983	0.13043	0.13101	0.13157	0.13211	0.13263	0.13313	0.13361	0.13407	0.13452	0.13495	0.13537	0.13577	0.13617	0.13654	0.13691	0.13727	0.13761	
17	0.11179	0.11317	0.11447	0.11570	0.11687	0.11798	0.11903	0.12003	0.12098	0.12189	0.12276	0.12359	0.12438	0.12514	0.12587	0.12656	0.12723	0.12788	0.12849	0.12909	0.12966	0.13022	0.13075	0.13126	0.13176	0.13224	0.13270	0.13315	0.13358	0.13400	0.13441	0.13481	0.13519	
18	0.10708	0.10860	0.11002	0.11138	0.11266	0.11387	0.11503	0.11613	0.11717	0.11817	0.11912	0.12003	0.12090	0.12173	0.12253	0.12330	0.12403	0.12474	0.12542	0.12607	0.12670	0.12731	0.12789	0.12845	0.12900	0.12953	0.13003	0.13053	0.13100	0.13146	0.13191	0.13234	0.13276	
19	0.10238	0.10402	0.10558	0.10705	0.10845	0.10977	0.11103	0.11222	0.11336	0.11445	0.11548	0.11647	0.11742	0.11833	0.11920	0.12003	0.12083	0.12160	0.12234	0.12305	0.12374	0.12440	0.12505	0.12566	0.12624	0.12681	0.12737	0.12790	0.12842	0.12892	0.12941	0.12988	0.13034	
20	0.09767	0.09945	0.10113	0.10273	0.10423	0.10567	0.10702	0.10832	0.10955	0.11072	0.11185	0.11292	0.11394	0.11492	0.11586	0.11676	0.11763	0.11846	0.11926	0.12003	0.12077	0.12149	0.12217	0.12284	0.12348	0.12410	0.12470	0.12528	0.12584	0.12638	0.12691	0.12742	0.12791	
21	0.09296	0.09488	0.09669	0.09840	0.09992	0.10136	0.10274	0.10404	0.10524	0.10634	0.10734	0.10824	0.10916	0.11002	0.11083	0.11155	0.11223	0.11288	0.11351	0.11411	0.11468	0.11527	0.11582	0.11635										

Depreciated life	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
CCFAct	0.15311	0.15320	0.15330	0.15339	0.15349	0.15358	0.15366	0.15375	0.15384	0.15392	0.15400	0.15408	0.15416	0.15423	0.15431
DeprecFact	0.01493	0.01471	0.01449	0.01429	0.01408	0.01389	0.01370	0.01351	0.01333	0.01316	0.01299	0.01282	0.01266	0.01250	0.01235
RORFact	0.09713	0.09735	0.09757	0.09778	0.09798	0.09818	0.09838	0.09857	0.09876	0.09894	0.09912	0.09929	0.09946	0.09962	0.09978
TaxGUFact	0.04106	0.04115	0.04124	0.04133	0.04142	0.04150	0.04159	0.04167	0.04174	0.04182	0.04190	0.04197	0.04204	0.04211	0.04218
COE															
COD															
NPV-EoP	1.35606	1.35703	1.35798	1.35890	1.35979	1.36066	1.36151	1.36234	1.36314	1.36392	1.36468	1.36542	1.36615	1.36685	1.36754
NPV-BuP	1.50861	1.50969	1.51075	1.51177	1.51277	1.51373	1.51468	1.51559	1.51649	1.51736	1.51820	1.51903	1.51983	1.52062	1.52138
Pmc-EoP	0.16126	0.16136	0.16146	0.16156	0.16166	0.16175	0.16185	0.16194	0.16203	0.16212	0.16220	0.16228	0.16237	0.16245	0.16253
Pmc-BuP	0.14495	0.14505	0.14514	0.14523	0.14531	0.14540	0.14548	0.14556	0.14564	0.14572	0.14580	0.14587	0.14595	0.14602	0.14609
Year															
1	0.17378	0.17358	0.17338	0.17319	0.17301	0.17283	0.17265	0.17248	0.17231	0.17215	0.17200	0.17184	0.17169	0.17155	0.17141
2	0.17139	0.17122	0.17106	0.17090	0.17075	0.17060	0.17046	0.17032	0.17018	0.17005	0.16992	0.16979	0.16967	0.16955	0.16943
3	0.16900	0.16887	0.16874	0.16862	0.16850	0.16838	0.16827	0.16816	0.16805	0.16794	0.16784	0.16774	0.16764	0.16755	0.16745
4	0.16661	0.16652	0.16642	0.16633	0.16624	0.16616	0.16607	0.16599	0.16591	0.16584	0.16576	0.16569	0.16562	0.16555	0.16548
5	0.16422	0.16416	0.16410	0.16405	0.16399	0.16393	0.16388	0.16383	0.16378	0.16373	0.16368	0.16364	0.16359	0.16355	0.16350
6	0.16184	0.16181	0.16178	0.16176	0.16173	0.16171	0.16169	0.16167	0.16165	0.16162	0.16160	0.16158	0.16156	0.16155	0.16153
7	0.15945	0.15946	0.15946	0.15947	0.15948	0.15949	0.15949	0.15950	0.15951	0.15952	0.15953	0.15954	0.15954	0.15955	0.15955
8	0.15706	0.15710	0.15714	0.15719	0.15723	0.15727	0.15730	0.15734	0.15738	0.15741	0.15745	0.15748	0.15751	0.15754	0.15757
9	0.15467	0.15475	0.15483	0.15490	0.15497	0.15504	0.15511	0.15518	0.15524	0.15531	0.15537	0.15543	0.15549	0.15554	0.15560
10	0.15228	0.15239	0.15251	0.15261	0.15272	0.15282	0.15292	0.15302	0.15311	0.15320	0.15329	0.15338	0.15346	0.15354	0.15362
11	0.14989	0.15004	0.15019	0.15033	0.15046	0.15060	0.15073	0.15085	0.15098	0.15109	0.15121	0.15132	0.15143	0.15154	0.15165
12	0.14750	0.14769	0.14787	0.14804	0.14821	0.14837	0.14853	0.14869	0.14884	0.14899	0.14913	0.14927	0.14944	0.14967	0.14987
13	0.14511	0.14533	0.14555	0.14575	0.14596	0.14615	0.14634	0.14653	0.14671	0.14688	0.14705	0.14722	0.14738	0.14754	0.14770
14	0.14273	0.14298	0.14323	0.14347	0.14370	0.14393	0.14415	0.14436	0.14457	0.14478	0.14498	0.14517	0.14536	0.14554	0.14572
15	0.14034	0.14063	0.14091	0.14118	0.14145	0.14171	0.14196	0.14220	0.14244	0.14267	0.14290	0.14312	0.14333	0.14354	0.14374
16	0.13795	0.13827	0.13859	0.13889	0.13919	0.13948	0.13976	0.14004	0.14031	0.14056	0.14082	0.14106	0.14130	0.14154	0.14177
17	0.13556	0.13592	0.13627	0.13661	0.13694	0.13726	0.13757	0.13788	0.13817	0.13846	0.13874	0.13901	0.13928	0.13954	0.13979
18	0.13317	0.13357	0.13395	0.13432	0.13468	0.13504	0.13538	0.13571	0.13604	0.13635	0.13666	0.13696	0.13725	0.13754	0.13782
19	0.13078	0.13121	0.13163	0.13204	0.13243	0.13281	0.13319	0.13355	0.13390	0.13425	0.13458	0.13491	0.13523	0.13554	0.13584
20	0.12839	0.12886	0.12931	0.12975	0.13018	0.13059	0.13099	0.13139	0.13177	0.13214	0.13250	0.13286	0.13320	0.13354	0.13386
21	0.12600	0.12660	0.12709	0.12756	0.12802	0.12837	0.12870	0.12902	0.12934	0.12964	0.12994	0.13024	0.13054	0.13084	0.13109
22	0.12362	0.12415	0.12467	0.12518	0.12567	0.12615	0.12661	0.12706	0.12750	0.12793	0.12835	0.12875	0.12915	0.12954	0.12991
23	0.12123	0.12180	0.12235	0.12289	0.12341	0.12392	0.12442	0.12490	0.12537	0.12582	0.12627	0.12670	0.12712	0.12753	0.12794
24	0.11884	0.11944	0.12003	0.12060	0.12116	0.12170	0.12222	0.12274	0.12323	0.12372	0.12419	0.12465	0.12510	0.12553	0.12596
25	0.11645	0.11709	0.11771	0.11832	0.11891	0.11948	0.12003	0.12057	0.12110	0.12161	0.12211	0.12260	0.12307	0.12353	0.12398
26	0.11406	0.11474	0.11539	0.11603	0.11665	0.11725	0.11784	0.11841	0.11897	0.11953	0.12008	0.12061	0.12113	0.12163	0.12201
27	0.11167	0.11238	0.11307	0.11374	0.11440	0.11503	0.11565	0.11625	0.11683	0.11740	0.11795	0.11849	0.11902	0.11953	0.12003
28	0.10928	0.11003	0.11075	0.11146	0.11214	0.11281	0.11345	0.11408	0.11470	0.11529	0.11588	0.11644	0.11699	0.11753	0.11806
29	0.10689	0.10768	0.10843	0.10917	0.10989	0.11058	0.11126	0.11192	0.11256	0.11319	0.11380	0.11439	0.11497	0.11553	0.11608
30	0.10450	0.10532	0.10611	0.10689	0.10767	0.10836	0.10907	0.10976	0.11043	0.11108	0.11172	0.11234	0.11294	0.11353	0.11410
31	0.10212	0.10297	0.10380	0.10460	0.10538	0.10614	0.10688	0.10760	0.10830	0.10898	0.10964	0.11029	0.11092	0.11153	0.11213
32	0.09973	0.10061	0.10148	0.10231	0.10313	0.10392	0.10469	0.10543	0.10616	0.10687	0.10756	0.10823	0.10889	0.10953	0.11015
33	0.09734	0.09826	0.09916	0.10003	0.10087	0.10169	0.10249	0.10327	0.10403	0.10476	0.10548	0.10618	0.10686	0.10753	0.10818
34	0.09495	0.09591	0.09684	0.09774	0.09862	0.09947	0.10030	0.10111	0.10189	0.10266	0.10340	0.10413	0.10484	0.10553	0.10620
35	0.09256	0.09355	0.09452	0.09545	0.09636	0.09725	0.09811	0.09894	0.09973	0.10055	0.10133	0.10208	0.10281	0.10353	0.10423
36	0.09017	0.09120	0.09220	0.09317	0.09411	0.09502	0.09592	0.09678	0.09763	0.09845	0.09925	0.10003	0.10079	0.10153	0.10225
37	0.08778	0.08885	0.08988	0.09088	0.09185	0.09280	0.09372	0.09462	0.09549	0.09634	0.09717	0.09797	0.09876	0.09953	0.10027
38	0.08539	0.08649	0.08756	0.08859	0.08960	0.09058	0.09153	0.09246	0.09336	0.09424	0.09509	0.09592	0.09673	0.09753	0.09830
39	0.08301	0.08414	0.08524	0.08631	0.08735	0.08836	0.08934	0.09029	0.09122	0.09213	0.09301	0.09387	0.09471	0.09552	0.09632
40	0.08062	0.08179	0.08292	0.08402	0.08509	0.08613	0.08715	0.08813	0.08909	0.09002	0.09093	0.09182	0.09269	0.09352	0.09435
41	0.07823	0.07943	0.08060	0.08173	0.08284	0.08391	0.08495	0.08597	0.08696	0.08792	0.08885	0.08977	0.09066	0.09152	0.09237
42	0.07584	0.07708	0.07828	0.07945	0.08058	0.08169	0.08276	0.08381	0.08482	0.08581	0.08678	0.08772	0.08863	0.08952	0.09039
43	0.07345	0.07472	0.07596	0.07716	0.07833	0.07946	0.08057	0.08164	0.08269	0.08371	0.08470	0.08566	0.08660	0.08752	0.08842
44	0.07106	0.07237	0.07364	0.07488	0.07608	0.07724	0.07838	0.07948	0.08055	0.08160	0.08262	0.08361	0.08458	0.08552	0.08644
45	0.06867	0.07002	0.07132	0.07259	0.07382	0.07502	0.07618	0.07732	0.07842	0.07949	0.08054	0.08156	0.08255	0.08352	0.08447
46	0.06628	0.06766	0.06900	0.07030	0.07157	0.07280	0.07399	0.07515	0.07629	0.07739	0.07846	0.07951	0.08053	0.08152	0.08249
47	0.06390	0.06531	0.06668	0.06802	0.06931	0.07057	0.07180	0.07299	0.07415	0.07528	0.07638	0.07746	0.07850	0.07952	0.08051
48	0.06151	0.06296	0.06436	0.06573	0.06706	0.06835	0.06961	0.07085	0.07202	0.07318	0.07430	0.07540	0.07648	0.07752	0.07854
49	0.05912	0.06060	0.06204	0.06344	0.06480	0.06613	0.06741	0.06867	0.06988	0.07107	0.07223	0.07335	0.07445	0.07552	0.07656
50	0.05673	0.05825	0.05972	0.06116	0.06255	0.06390	0.06522	0.06650	0.06775	0.06896	0.07015	0.07130	0.07242	0.07352	0.07459
51	0.05434	0.05589	0.05740	0.05887	0.06030	0.06168	0.06303	0.06434	0.06562	0.06686	0.06807	0.06925	0.07040	0.07152	0.07261
52	0.05195	0.05354	0.05508	0.05658	0.05804	0.05946	0.06084	0.06218	0.06348	0.06475	0.06599	0.06720	0.06837	0.06952	0.07063
53	0.04956	0.05119	0.05277	0.05430	0.05579	0.05724	0.05864	0.06001	0.06135	0.06265	0.06391	0.06514	0.06635	0.06752	0.06866
54	0.04717	0.04883	0.05045	0.05201	0.05353	0.05501	0.05645	0.05785	0.05921	0.06054	0.06183	0.06309	0.06432	0.06552	0.06668
55	0.04479	0.04648	0.04813	0.04973	0.05128	0.05279	0.05426	0.05569							

EXPENSE MODULE INPUTS

	User Inputs	Calculations
State	Missouri	
Company	Rock Port 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	19,853	
intrastate DEMs, thousands	4,239	
interstate DEMs, thousands	4,185	28,277 total DEMs, thousands
Local call completion fraction	70.00%	
Total local calls attempted	4,498	3,149 Total local calls completed
Total intraLATA calls completed	269	
Total interLATA calls completed - intrastate	271	
Total interLATA calls completed - interstate	576	
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	

May 4, 2006
4:20 PM

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	\$ 63,218
2421-nm	Aerial Cable - Non-Metall	22.24	-0.1753	18.92	\$ 51,986
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	\$ 1,249,178
2423-nm	Buried - Non-Metallic	23.86	-0.0858	21.97	\$ 2,533,261
2426-m	Intrabuilding - Metallic	15.71	-0.1674	13.57	
2426-nm	Intrabuilding - Non-Metall	23.62	-0.1052	21.37	
2441	Conduit Systems	50.92	-0.1034	46.15	
Average Metallic Cable (calculated)				18.06	\$ 1,312,396
Average Non-Metallic Cable (calculated)				21.90	\$ 2,585,247

\$ 4,643

\$ 2,747

\$ -

\$ -

\$ 68,039

\$ 115,281

\$ -

\$ -

\$ 72,683

\$ 118,029

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	4,239,000	
Interstate Toll DEMs	4,185,000	
trunk port usage	48,688,385	
trk-min/mo	10,044	
interLATA ded. trunks	70	
Common Transport MOU		
Local	46,425	w/o OS usage
Intrastate Toll	4,239,000	
Interstate Toll	4,185,000	
	8,470,425	
Intrastate IntraLATA Calls	269	49.81% SOCCC message counts
Intrastate InterLATA Calls	271	50.19%
	540	

Calculation of EO Usage

Local DEMs, incl OS	19,853,000	70.2% of total DEMs	
Intraoffice Local DEMs	17,463,677		
Intraoffice Local Actual Min	8,731,838		
Interoffice Local Actual Min	2,389,323	per end	
Intrastate Toll Actual Min	4,239,000		
Interstate Toll Actual Min	<u>4,185,000</u>		
	19,545,162		
		Dedicated Transport MOU	
		Local, w/o OS	1,137,417
		IntraLATA Toll	-
		InterLATA Toll	<u>8,424,000</u>
			9,561,417
Tandem Switch MOU		Dedicated Trunk-SW	79
Local	23,213		
IntraLATA Toll	1,055,825		
InterLATA Toll	<u>6,312,350</u>		
	7,391,388		

TRANSFORMED REGULATED		1995 COMPANY NAME:	ICO	
		OTHER TAXES & UNCOLLECTIBLES CALCULATION	EXPENSES	NET REVENUES
		7230 OPERATING STATE & LOCAL INCOME TAX-NET	11	
		7240 OPERATING OTHER TAXES	46	
		5300 UNCOLLECTIBLE REVENUES		18
		530 NET REVENUES		1,112
		GROSS REVENUES (5300 + 530)		1,130
		UNCLL GROSS REV		0.015532
		(5300-4040(p.r)) / (5081+5; UNCLL RETAIL RATE		2.27%
		(4040(p)) / (5082 .5084) UNCLL WHOLESALE RATE		0.43%
EXP	INV	PLANT SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. INVESTMENTS
		TPIS GENERAL SUPPORT		C. EXP/INV (A/B)
		2111 LAND		15
		2121 BUILDINGS		221
6121	2121	TOTAL LAND & BUILDINGS	24	236
				0.103180
6112	2112	2112 MOTOR VEHICLES	1	38
6113	2113	2113 AIRCRAFT	1	2
6114	2114	2114 SPECIAL PURPOSE VEHICLES	0	0
6115	2115	2115 GARAGE WORK EQUIPMENT	0	1
6116	2116	2116 OTHER WORK EQUIPMENT	0	39
6122	2122	2122 FURNITURE	2	15
6123	2123	2123 OFFICE EQUIPMENT	4	37
6124	2124	2124 GENERAL PRUPOSE COMPUTERS	36	57
6120	2110	2110 TOTAL LAND & SUPPORT ASSETS	66	415
				0.15965268
		TPIS - CENTRAL OFFICE SWITCHING		
		-		
6211	2211	2211 ANALOG ELECT SWITCH	1	24
6212	2212	2212 DIGITAL ELECTRONIC SWITCHING	41	727
6220	2220	2220 OPERATOR SYSTEMS	1	11
6210	2210	22102221022102210 CENTRAL OFFICE SWITCH	43	762
		TPIS - CENTRAL OFFICE TRANSMISSION		
		-		
6232	2232	2232 CIRCUIT EQUIPMENT	8	501
6230	2230	2230 TRANSMISSION	9	523
				0.016263483
		0.01663194		
		TPIS - INFORMATION ORIG/TERM		
		-		
6311	2311	2311 STATION APPARATUS	0	0
6321	2321	2321 CUSTOMER PREMISES WIRING	0	0
6341	2341	2341 LARGE PRIVATE BRANCH EXCHANGE	0	0
6351	2351	2351 PUBLIC TEL TERMINAL EQUIPMENT	3	16
6362	2362	2362 OTHER TERMINAL EQUIPMENT	5	27
6310	2310	2310 TOTAL INFORMATION ORIG/TERM	8	44
				0.182377792
		TPIS - CABLE & WIRE FACILITIES		
		-		
6411	2411	2411 POLES	4	86
6421	2421	2421 AERIAL CABLE	26	407
6422	2422	2422 UNDERGROUND CABLE	5	259
6423	2423	2423 BURIED CABLE	28	729
6441	2441	2441 CONDUIT SYSTEMS	1	147
6410	2410	2410 TOTAL CABLE & WIRE FACILITIES	64	1,636
				0.038842
		240 TOTAL TPIS(BEFORE AMORTIZABLE ASSETS)	126	3,406
		(2110+2210+2220+2230+2310+2410)		0.037062996
		PLANT NON-SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. TPIS INVESTMENT
		=	=	C. EXP/INV (A/B)
6512	240	6512 PROVISIONING EXPENSES	1	3,406
				0.000300
6531	240	6531 POWER EXPENSES	6	3,406
6532	240	6532 NETWORK ADMINISTRATION	14	3,406
6533	240	6533 TESTING	14	3,406
6534	240	6534 PLANT OPERATIONS ADMINISTRATION	22	3,406
6535	240	6535 ENGINEERING	11	3,406
6540	240	6540 ACCESS EXPENSE	19	3,406
6530	240	6530 TOTAL NETWORK OPERATIONS EXPENSES	67	3,406
6561	240	6561656165616561 DEPRECIATION - TPIS	237 237 237 237	3,406 3,406 3,406 3,406
		NETWORK SUPPORT FACTOR CALCULATION	A. EXPENSES	B. CABLE & WIRE INV
		=	=	C. EXP/INV (A/B)
		2112 MOTOR VEHICLES	1	
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	1,636
				0.001041087
		CUSTOMER OPERATIONS EXPENSES	A. EXPENSES	B. NET REVENUES
		=	=	C. EXP/NET REV (A/B)
6611		6611 PRODUCT MANAGEMENT	10	CALC
6612		6612 SALES	18	CALC
6613		6613 PRODUCT ADVERTISING	6	CALC
6610		6610 TOTAL MARKETING EXPENSES	34	CALC
6621		6621 CALL COMPLETION SERVICE	8	CALC
6622		6622 NUMBER SERVICES	19	CALC
6623		6623 CUSTOMER SERVICES	61	CALC

6620	6620 TOTAL SERVICES EXPENSES	87	CALC
*	700 TOTAL CUSTOMER OPERATIONS EXPENSE (6610 + 6620)	121	CALC
	CORPORATE OPERATIONS EXPENSES	A. EXPENSES	B. REVENUES
			C. EXP/REV (A/B)
6711	6711 EXECUTIVE	5	CALC
6712	6712 PLANNING	2	CALC
6710	6710 TOTAL EXECUTIVE & PLANNING	7	CALC
6721	6721 ACCOUNTING & FINANCE	14	CALC
6722	6722 EXTERNAL RELATIONS	8	CALC
6723	6723 HUMAN RESOURCES	10	CALC
6724	6724 INFORMATION MANAGEMENT	38	CALC
6725	6725 LEGAL	3	CALC
6726	6726 PROCUREMENT	2	CALC
6727	6727 RESEARCH & DEVELOPMENT	2	CALC
6728	6728 OTHER GENERAL & ADMINISTRATIVE	32	CALC
6720	6720 TOTAL GENERAL & ADMINISTRATIVE	110	CALC
	710 TOTAL CORPORATE OPERATIONS EXPENSE (6710 + 6720 + 6730)	144	CALC
	720 TOTAL OPERATING EXPENSES		CALC
	DEM - LOCAL	19,853	
	DEM - INTRASTATE	4,239	
	DEM - INTERSTATE	4,185	
	MESSAGES - INTRALATA	269	
	MESSAGES - INTERLATA - interstate	576	
	MESSAGES - INTERLATA - intrastate	271.040645	
4308 (EC)	LOCAL CALL ATTEMPTS	4,499	
	LINES - BUSINESS	437	
	RESIDENTIAL	1,184	
	PUBLIC	14	
	SPECIAL	108	
	TOTAL	1,745	
	5081 END USER		74
	5082 SWITCHED ACCESS		166
	5083 SPECIAL ACCESS		31
	TOTAL INTER ACCESS		270
	5084 END USER		
	5084 SWITCHED ACCESS		
	5084 SPECIAL ACCESS		
	STATE ACCESS		139
	TOTAL ACCESS REVENUES		410
	LD MESSAGE REVENUE		
	5100 INTERSTATE MESSAGE		
	5100 INTRASTATE MESSAGE		
	5100 INTERSTATE CALLING PLAN		
	5100 INTRASTATE CALLING PLAN		
	LD MSG REV (CLASS A)		117
	UNIDIRECTIONAL LD		
	5110 INTERSTATE		
	INTRASTATE		
	TOTAL		4
	5120 LD PRIVATE NETWORK		10
	OTHER LD		
	5160 INTERSTATE		
	INTRASTATE		
	TOTAL		2
	TOTAL LD NETWORK REVENUE		
	INTERSTATE		
	INTRASTATE		
	TOTAL		133
	BASIC LOCAL SERVICE		
	5001 BASIC AREA		360
	5002 OPTIONAL EXTEND AREA		11
	5003 CELLAR MOBIL		9
	5004 OTHER MOBIL SVC		1
	TOTAL BASIC SVC		381
	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				11
	5040 LOCAL PRIVATE LINE				13
	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				89
	TOTAL LOCAL NETWORK SRVC REVENUE INTERSTATE INTRASTATE			493.3611314	
	TOTAL REVENUE			1035.633551	
	CAPITAL STRUCTURE PARAMETERS DEBT/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 SOURCEDATA SOURCESum checksum checksum checksum checksum checksum checksum check					
ARMIS 4303	Jan 1996 to Dec 1996		28215	495	
ARMIS 4304	GEORGIA		9007 (EJ)	9010	
ARMIS 4308		0 (EJ)			
DEM			0		
=	=	=	=	=	
UNCOLL RATE:	BA Lcl Svc	4303.Ln 520			493.3731437
	LD Ntwk Svs Rev	4303.Ln 525			133.7870467
	End User	4303.Ln 5081			74.03585911
	Sw Acc	4303.Ln 5082			165.7596244
	Spcl Acc	4303.Ln 5083			30.50393679
	St Acc	4303.Ln 5084			139.2352307
	Uncoll Rev	4303.Ln 5300			17.54740744
	Tot Acc	4304.Ln4040 (P)			1.454495621
	B&C	4304.Ln4040 (Q)			0.142856258
	IX	4304.Ln4040 (R)			0.005164155
	Ln4040 (P+Q+R)	Calc (P+Q+R)			1.602516035
Uncoll -Acc	5300-(4040p..r)	1a			15.94489141
End User+ Riev	5081+520+525	1b			701.1960495
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	\$ 15	\$ -	-	
2112 Motor Vehicles	\$ 38	\$ 1	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	\$ 30	\$ 0	0.0113	
2121 Buildings	\$ 221	\$ 24	0.1103	Land & Bldg Exp Applied to Bldgs
2122 Furniture	\$ 15	\$ 2	0.1224	
2123 Office Equipment	\$ 37	\$ 4	0.1015	
2124 General Purpose Computers	\$ 57	\$ 36	0.6381	
2110 Total Land & Support Assets	\$ 415	\$ 69	0.1650	
TPIS - Central Office Switching				
2211 Analog Electronic Switching	\$ 24	\$ 1	0.0453	
2212 Digital Electronic Switching	\$ 727	\$ 41	0.0569	4.75% NET CO Switch Factor
2210 Total Central Office Switching	\$ 751	\$ 42	0.0565	
2220 Operator Systems	\$ 11	\$ 1	0.0675	
TPIS - Central Office Transmission				
2231 Satellite & Earth Station Facilities				
2231 Other Radio Facilities				
2231 Radio Systems				
2232 Circuit Equipment	\$ 501	\$ 8	0.0163	1.53% alternative factor
2230 Total Central Office Transmission	\$ 501	\$ 8	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	\$ 16	\$ 3	0.1881	
2362 Other Terminal Equipment	\$ 27	\$ 5	0.1763	
2310 Total Information Orig/Term	\$ 44	\$ 8	0.1824	
TPIS - Cable & Wire Facilities				
2411 Poles	\$ 86	\$ 4	0.0413	
2421 Aerial Cable	\$ 407	\$ 26	0.0629	0.0629 0.0196 0.0389Alternative fiber cable maintenance factors
2422 Underground Cable	\$ 259	\$ 5	0.0196	
2423 Buried Cable	\$ 720	\$ 28	0.0389	
2424 Submarine Cable				
2425 Deep Sea Cable				
2426 Intrabuilding Network Cable				
2431 Aerial Wire				
2441 Conduit Systems	\$ 147	\$ 1	0.0037	
2410 Total Cable & Wire Facilities	\$ 1,619	\$ 63	0.0388	
240 Total TPIS (before amortizable assets)	\$ 2,925	\$ 191	0.0652	
Plant Non-Specific Operations Expenses				
	Expenses	Investment	Factor	
6512 Provisioning Expenses	\$ 1	\$ 2,925	0.0003	
6531 Power Expenses	\$ 6	\$ 2,925	0.0019	8.10% all
6532 Network Administration	\$ 14	\$ 2,925	0.0048	20.47% switching, interoffice
6533 Testing	\$ 14	\$ 2,925	0.0050	21.22% all
6534 Plant Operations Administration	\$ 22	\$ 2,925	0.0074	31.89% all
6535 Engineering	\$ 11	\$ 2,925	0.0039	16.83% all
6540 Access Expense				
6530 Total Network Operations Expenses (includes provisioning)	\$ 68	\$ 2,925	0.0233	per line network operations
Network Support Factor Calculation				(=total ARMIS 6530/total lines)
	Expenses	Cable & Wire Inv	Factor	total lines (from net. invest. inputs)
6112 Motor Vehicles	\$ 1			1,745
6113 Aircraft	\$ 1			
6114 Special Purpose Vehicles	\$ 0			
6115 Garage Work Equipment	\$ 0			
6116 Other Work Equipment	\$ 0			
Aircraft & Special Purpose Vehicles	\$ 2	\$ 1,619	0.0011	\$ 39.11
				annual net ops per line

Customer Operations Expenses

	Expenses		Net Revenues		Factor		
6611 Product Management *	\$	10	\$	0.4638	\$	584	0.0166
6612 Sales *	\$	18	\$	0.8522	\$	584	0.0306
6613 Product Advertising	\$	6			\$	584	0.0110
6610 Total Marketing Expenses	\$	34					0.0582
6621 Call Completion Service	\$	8			\$	584	0.0131
6622 Number Services	\$	19	\$	0.8863	\$	584	0.0318
6623 Customer Services	\$	61	\$	2.9168	\$	584	0.1046
6620 Total Services Expenses	\$	87	\$	4.23			0.1495
Billing/bill inquiry (per line/month)	\$	2.30					
Directory listing (per line/month)		-					
700 Total Customer Operations Expenses	\$	121.28			\$	584	0.2078
							0.2442

Corporate Operations Expenses

Corporate Operations Expense		Expenses	Revenues	Factor		
6711 Executive	\$	5	\$	584	0.0079	
6712 Planning		2	\$	584	0.0039	
6710 Total Executive & Planning	\$	7	\$	584	0.0117	
6721 Accounting & Finance	\$	14	\$	584	0.0237	
6722 External Relations	\$	8	\$	584	0.0144	
6723 Human Resources	\$	10	\$	584	0.0171	
6724 Information Management	\$	38	\$	584	0.0653	
6725 Legal	\$	3	\$	584	0.0055	
6726 Procurement	\$	2	\$	584	0.0030	
6727 Research & Development	\$	2	\$	584	0.0038	
6728 Other General & Administrative	\$	32	\$	584	0.0554	
6720 Total General & Administrative	\$	110	\$	584	0.1880	
710 Total Corporate Operations Expense	\$	117	\$	584	0.1040	0.2347
720 Total Operating Expenses	\$	497				47.89% Total Operations General Support Allocator
note: does not include dep/amort						45.55% "Office Worker" General Support Allocator

Misc Expenses Calculation	2122 Furniture	2123 Office Equipment	2124 GP Computer	2112 Motor Vehicles	2121 Buildings	2115 Garage Work Equipment	2116 Other Work Equipment
Investment	\$ 15	\$ 37	\$ 57	\$ 38	\$ 110	\$ 1	\$ 30
Investment/TPIS	0.005	0.013	0.020	0.013	0.038	0.000	0.010
Expense	\$ 2	\$ 4	\$ 36	\$ 1	\$ 12	\$ 0	\$ 0
Expense Factor	0.122	0.101	0.638	0.035	0.110	0.035	0.011
Model TPIS	\$ 7,659	\$ 7,659	\$ 7,659	\$ 7,659	\$ 7,659	\$ 7,659	\$ 7,659
Calculated Investment	\$ 38	\$ 97	\$ 150	\$ 100	\$ 289	\$ 3	\$ 78
Calculated Expense	\$ 5	\$ 10	\$ 95	\$ 3	\$ 32	\$ 0	\$ 1
Subtotal (\$s)	\$ 64,606						
Total Misc Expense	\$ 64,606						

Other Taxes & Uncollectibles Calculation

	Expenses		Net Revenues		Factor
7230 Operating State & Local Income Tax	\$	11	\$	(56)	
7240 Operating Other Taxes	\$	46	\$	(56)	0.0500
5300 Uncollectible Revenues	\$	18	\$	584	0.0301
retail					0.0227
wholesale					0.0043
Ratio of Net Plant to TPIS					
TPIS	\$	2,925			
Net Plant	\$	2,925			
Ratio	\$	1			
Model Investment	\$	-			
Model % of Net Plant	\$	-			
Model % of TPIS		0%			

Actual 1996 Revenue

		% of total
Interstate Access		
5081 End User	\$ 74	8.26%
5082 Switched Access	\$ 166	18.49%
5083 Special Access	\$ 31	3.40%
Total Inter Access	\$ 270	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	\$ 270	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	\$ 117	13.08%
Unidirectional LD Revenue		
5110 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 4	0.48%
LD Private Network Revenue		
5120 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	\$ 10	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	\$ 133	14.81%

Basic Local Service		
5001 Basic Area	\$ 360	40.21%
5002 Optional Extended Area	\$ 11	1.23%
5003 Cellular Mobile	\$ 9	0.95%
5004 Other Mobile Svcs	\$ 1	0.08%
Total Basic Local Service	\$ 381	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	\$ 11	1.18%
Local Private Line Revenue		
5040 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total Private Line	\$ 13	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	\$ 89	9.89%
Total Local Network Service Revenue		
Interstate	\$ -	0.00%
Intrastate	\$ 493	55.04%
Total Revenue	\$ 896	100.00%

HAI Model Release 5.0a

Expense Module Release 5.0a

Copyright 1998,
HAI Consulting, Inc., AT&T Corp.,
and MCI Telecommunications Corporation

All rights reserved.

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

Scenario Inputs

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

Workfile Name: C:\Program Files\HM50\WORKFILES\HMWKMO4219421.XLS
Distribution Module Name: C:\Program Files\HM50\MODULES\R50a_distribution.xls
Feeder Module Name: C:\Program Files\HM50\MODULES\R50a_feeder.xls
Switching Module Name: C:\Program Files\HM50\MODULES\R50a_switching_io-Dt-HRInd-TransForm-Fiber-Sharing.xls
Expense Module Name: C:\Program Files\HM50\MODULES\R50a_expense_density.xls

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

HAI Model Release 5.0a
User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
Distribution Cable Fill - 0	0.50	0.50	Copper Feeder Fill - 0	0.65	0.65
Distribution Cable Fill - 5	0.55	0.55	Copper Feeder Fill - 5	0.75	0.75
Distribution Cable Fill - 100	0.55	0.55	Copper Feeder Fill - 100	0.80	0.80
Distribution Cable Fill - 200	0.60	0.60	Copper Feeder Fill - 200	0.80	0.80
Distribution Cable Fill - 650	0.65	0.65	Copper Feeder Fill - 650	0.80	0.80
Distribution Cable Fill - 850	0.70	0.70	Copper Feeder Fill - 850	0.80	0.80
Distribution Cable Fill - 2550	0.75	0.75	Copper Feeder Fill - 2550	0.80	0.80
Distribution Cable Fill - 5000	0.75	0.75	Copper Feeder Fill - 5000	0.80	0.80
Distribution Cable Fill - 10000	0.75	0.75	Copper Feeder Fill - 10000	0.80	0.80
Buried Fraction - 0	0.95	0.95	Fiber Feeder Strand Fill - 0	1.00	1.00
Buried Fraction - 5	0.95	0.95	Fiber Feeder Strand Fill - 5	1.00	1.00
Buried Fraction - 100	0.95	0.95	Fiber Feeder Strand Fill - 100	1.00	1.00
Buried Fraction - 200	0.95	0.95	Fiber Feeder Strand Fill - 200	1.00	1.00
Buried Fraction - 650	0.95	0.95	Fiber Feeder Strand Fill - 650	1.00	1.00
Buried Fraction - 850	0.85	0.85	Fiber Feeder Strand Fill - 850	1.00	1.00
Buried Fraction - 2550	0.85	0.85	Fiber Feeder Strand Fill - 2550	1.00	1.00
Buried Fraction - 5000	0.86	0.86	Fiber Feeder Strand Fill - 5000	1.00	1.00
Buried Fraction - 10000	0.85	0.85	Fiber Feeder Strand Fill - 10000	1.00	1.00
Aerial Cable Fraction - 0	0.05	0.05	Copper Aerial Fraction - 0	0.05	0.05
Aerial Cable Fraction - 5	0.05	0.05	Copper Aerial Fraction - 5	0.05	0.05
Aerial Cable Fraction - 100	0.05	0.05	Copper Aerial Fraction - 100	0.05	0.05
Aerial Cable Fraction - 200	0.05	0.05	Copper Aerial Fraction - 200	0.05	0.05
Aerial Cable Fraction - 650	0.05	0.05	Copper Aerial Fraction - 650	0.05	0.05
Aerial Cable Fraction - 850	0.05	0.05	Copper Aerial Fraction - 850	0.05	0.05
Aerial Cable Fraction - 2550	0.05	0.05	Copper Aerial Fraction - 2550	0.05	0.05
Aerial Cable Fraction - 5000	0.05	0.05	Copper Aerial Fraction - 5000	0.05	0.05
Aerial Cable Fraction - 10000	0.05	0.05	Copper Aerial Fraction - 10000	0.05	0.05
Pole Spacing, feet - 0	250	250	Copper Buried Fraction - 0	0.95	0.95
Pole Spacing, feet - 5	250	250	Copper Buried Fraction - 5	0.95	0.95
Pole Spacing, feet - 100	200	200	Copper Buried Fraction - 100	0.95	0.95
Pole Spacing, feet - 200	200	200	Copper Buried Fraction - 200	0.95	0.95
Pole Spacing, feet - 650	175	175	Copper Buried Fraction - 650	0.95	0.95
Pole Spacing, feet - 850	175	175	Copper Buried Fraction - 850	0.85	0.85
Pole Spacing, feet - 2550	150	150	Copper Buried Fraction - 2550	0.01	0.01
Pole Spacing, feet - 5000	150	150	Copper Buried Fraction - 5000	0.85	0.85
Pole Spacing, feet - 10000	150	150	Copper Buried Fraction - 10000	0.85	0.85
Drop Distance, feet - 0	150	150	Copper Manhole Spacing, feet - 0	800	800
Drop Distance, feet - 5	150	150	Copper Manhole Spacing, feet - 5	800	800
Drop Distance, feet - 100	100	100	Copper Manhole Spacing, feet - 100	800	800
Drop Distance, feet - 200	100	100	Copper Manhole Spacing, feet - 200	800	800
Drop Distance, feet - 650	50	50	Copper Manhole Spacing, feet - 650	600	600
Drop Distance, feet - 850	50	50	Copper Manhole Spacing, feet - 850	600	600
Drop Distance, feet - 2550	50	50	Copper Manhole Spacing, feet - 2550	600	600
Drop Distance, feet - 5000	50	50	Copper Manhole Spacing, feet - 5000	400	400
Drop Distance, feet - 10000	50	50	Copper Manhole Spacing, feet - 10000	400	400
Aerial Drop Placement (total) - 0	23.33	23.33	Fiber Aerial Fraction - 0	0.05	0.05
Aerial Drop Placement (total) - 5	23.33	23.33	Fiber Aerial Fraction - 5	0.05	0.05
Aerial Drop Placement (total) - 100	17.50	17.50	Fiber Aerial Fraction - 100	0.05	0.05
Aerial Drop Placement (total) - 200	17.50	17.50	Fiber Aerial Fraction - 200	0.05	0.05
Aerial Drop Placement (total) - 650	11.67	11.67	Fiber Aerial Fraction - 650	0.05	0.05
Aerial Drop Placement (total) - 850	11.67	11.67	Fiber Aerial Fraction - 850	0.00	0.00
Aerial Drop Placement (total) - 2550	11.67	11.67	Fiber Aerial Fraction - 2550	0.05	0.05

HAI Model Release 5.0a

User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
Aerial Drop Placement (total) - 5000	11.67	11.67	Fiber Aerial Fraction - 5000	0.05	0.05
Aerial Drop Placement (total) - 10000	11.67	11.67	Fiber Aerial Fraction - 10000	0.05	0.05
Buried Drop Placement (total) - 0	0.60	0.60	Fiber Buried Fraction - 0	0.95	0.95
Buried Drop Placement (total) - 5	0.60	0.60	Fiber Buried Fraction - 5	0.95	0.95
Buried Drop Placement (total) - 100	0.60	0.60	Fiber Buried Fraction - 100	0.95	0.95
Buried Drop Placement (total) - 200	0.60	0.60	Fiber Buried Fraction - 200	0.95	0.95
Buried Drop Placement (total) - 650	0.60	0.60	Fiber Buried Fraction - 650	0.95	0.95
Buried Drop Placement (total) - 850	0.60	0.60	Fiber Buried Fraction - 850	0.01	0.01
Buried Drop Placement (total) - 2550	0.75	0.75	Fiber Buried Fraction - 2550	0.85	0.85
Buried Drop Placement (total) - 5000	1.50	1.50	Fiber Buried Fraction - 5000	0.85	0.85
Buried Drop Placement (total) - 10000	5.00	5.00	Fiber Buried Fraction - 10000	0.85	0.85
Buried Drop Sharing Fraction - 0	1.00	1.00	Fiber Pullbox Spacing, feet - 0	2,000.00	2,000.00
Buried Drop Sharing Fraction - 5	1.00	1.00	Fiber Pullbox Spacing, feet - 5	2,000.00	2,000.00
Buried Drop Sharing Fraction - 100	1.00	1.00	Fiber Pullbox Spacing, feet - 100	2,000.00	2,000.00
Buried Drop Sharing Fraction - 200	1.00	1.00	Fiber Pullbox Spacing, feet - 200	2,000.00	2,000.00
Buried Drop Sharing Fraction - 650	1.00	1.00	Fiber Pullbox Spacing, feet - 650	2,000.00	2,000.00
Buried Drop Sharing Fraction - 850	1.00	1.00	Fiber Pullbox Spacing, feet - 850	2,000.00	2,000.00
Buried Drop Sharing Fraction - 2550	1.00	1.00	Fiber Pullbox Spacing, feet - 2550	2,000.00	2,000.00
Buried Drop Sharing Fraction - 5000	1.00	1.00	Fiber Pullbox Spacing, feet - 5000	2,000.00	2,000.00
Buried Drop Sharing Fraction - 10000	1.00	1.00	Fiber Pullbox Spacing, feet - 10000	2,000.00	2,000.00
Buried Drop Fraction - 0	0.95	0.95	Fiber Feeder Investment per foot - 216	13.10	13.10
Buried Drop Fraction - 5	0.95	0.95	Fiber Feeder Investment per foot - 144	9.50	9.50
Buried Drop Fraction - 100	0.95	0.95	Fiber Feeder Investment per foot - 96	7.10	7.10
Buried Drop Fraction - 200	0.95	0.95	Fiber Feeder Investment per foot - 72	5.90	5.90
Buried Drop Fraction - 650	0.95	0.95	Fiber Feeder Investment per foot - 60	5.30	5.30
Buried Drop Fraction - 850	0.95	0.95	Fiber Feeder Investment per foot - 48	4.70	4.70
Buried Drop Fraction - 2550	0.95	0.95	Fiber Feeder Investment per foot - 36	4.10	4.10
Buried Drop Fraction - 5000	0.95	0.95	Fiber Feeder Investment per foot - 24	3.50	3.50
Buried Drop Fraction - 10000	0.95	0.95	Fiber Feeder Investment per foot - 18	3.20	3.20
Pole Investment	201.00	201.00	Fiber Feeder Investment per foot - 12	2.90	2.90
Pole Labor	216.00	216.00	Copper Feeder Investment per foot - 4200	29.00	29.00
Buried Cable Jacketing Multiplier	1.04	1.04	Copper Feeder Investment per foot - 3600	26.00	26.00
Conduit Investment per foot	0.60	0.60	Copper Feeder Investment per foot - 3000	23.00	23.00
Spare Tubes per route	1.00	1.00	Copper Feeder Investment per foot - 2400	20.00	20.00
Regional Labor Adjustment Factor (see Labor Inputs)	1.00	1.00	Copper Feeder Investment per foot - 1800	16.00	16.00
Residential NID case, no protector	10.00	10.00	Copper Feeder Investment per foot - 1200	12.00	12.00
Residential NID basic labor	15.00	15.00	Copper Feeder Investment per foot - 900	10.00	10.00
spare	-	-	Copper Feeder Investment per foot - 600	7.75	7.75
Residential Protection Block, per pair	4.00	4.00	Copper Feeder Investment per foot - 400	6.00	6.00
Business NID case, no protector	25.00	25.00	Copper Feeder Investment per foot - 200	4.25	4.25
Business NID basic labor	15.00	15.00	Copper Feeder Investment per foot - 100	2.50	2.50
Business Protection Block, per pair	4.00	4.00	Buried Copper Cable Sheath Multiplier	1.04	1.04
Average Lines per business location	4.00	4.00	Buried Fiber Sheath Addition per foot	0.20	0.20
Terminal and Splice per line, buried	42.50	42.50	Pole Materials	201.00	201.00
Terminal and Splice per line, aerial	32.00	32.00	Pole Labor	216.00	216.00
Drop cable investment per foot buried	0.14	0.14	Conduit Material Investment per foot	0.60	0.60
Drop cable buried pairs	3.00	3.00	Inner Duct Investment per foot	0.30	0.30
Drop cable investment per foot aerial	0.095	0.095	Spare Tubes per section	1.00	1.00
Drop cable aerial pairs	2.00	2.00	Regional Labor Adjustment Factor (see Labor	1.00	1.00
DS-0 fraction	1.00	1.00	Pole Spacing, feet - 0	250.00	250.00
DS-1 fraction	-	-	Pole Spacing, feet - 5	250.00	250.00
DS-0 pair equivalent	1.00	1.00	Pole Spacing, feet - 100	200.00	200.00

HAI Model Release 5.0a

User Adjustable Inputs

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

HAI Model Release 5.0a
User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
Distribution Cable Size 10	25.00	25.00	Copper Manhole Excavate and Backfill - 1000	5,000	5,000
Distribution Cable Size 11	12.00	12.00	Fiber Pullbox Materials - 0	280.00	280.00
Distribution Cable Size 12	6.00	6.00	Fiber Pullbox Materials - 5	280.00	280.00
Distribution Cable Investment per foot 1	20.00	20.00	Fiber Pullbox Materials - 100	280.00	280.00
Distribution Cable Investment per foot 2	16.00	16.00	Fiber Pullbox Materials - 200	280.00	280.00
Distribution Cable Investment per foot 3	12.00	12.00	Fiber Pullbox Materials - 650	280.00	280.00
Distribution Cable Investment per foot 4	10.00	10.00	Fiber Pullbox Materials - 850	280.00	280.00
Distribution Cable Investment per foot 5	7.75	7.75	Fiber Pullbox Materials - 2550	280.00	280.00
Distribution Cable Investment per foot 6	6.00	6.00	Fiber Pullbox Materials - 5000	280.00	280.00
Distribution Cable Investment per foot 7	4.25	4.25	Fiber Pullbox Materials - 10000	280.00	280.00
Distribution Cable Investment per foot 8	2.50	2.50	Fiber Pullbox Installation - 0	220.00	220.00
Distribution Cable Investment per foot 9	1.63	1.63	Fiber Pullbox Installation - 5	220.00	220.00
Distribution Cable Investment per foot 10	1.19	1.19	Fiber Pullbox Installation - 100	220.00	220.00
Distribution Cable Investment per foot 11	0.76	0.76	Fiber Pullbox Installation - 200	220.00	220.00
Distribution Cable Investment per foot 12	0.63	0.63	Fiber Pullbox Installation - 650	220.00	220.00
Distribution Riser Cable Size 1	2,400.00	2,400.00	Fiber Pullbox Installation - 850	220.00	220.00
Distribution Riser Cable Size 2	1,800.00	1,800.00	Fiber Pullbox Installation - 2550	220.00	220.00
Distribution Riser Cable Size 3	1,200.00	1,200.00	Fiber Pullbox Installation - 5000	220.00	220.00
Distribution Riser Cable Size 4	900.00	900.00	Fiber Pullbox Installation - 10000	220.00	220.00
Distribution Riser Cable Size 5	600.00	600.00	Dewatering factor manhole excavation (additi	0.20	0.20
Distribution Riser Cable Size 6	400.00	400.00	Water table depth for dewatering, ft	5.00	5.00
Distribution Riser Cable Size 7	200.00	200.00			
Distribution Riser Cable Size 8	100.00	100.00			
Distribution Riser Cable Size 9	50.00	50.00			
Distribution Riser Cable Size 10	25.00	25.00			
Distribution Riser Cable Size 11	12.00	12.00			
Distribution Riser Cable Size 12	6.00	6.00			
Distribution Riser Cable Investment per foot 1	25.00	25.00			
Distribution Riser Cable Investment per foot 2	20.00	20.00			
Distribution Riser Cable Investment per foot 3	15.00	15.00			
Distribution Riser Cable Investment per foot 4	12.50	12.50			
Distribution Riser Cable Investment per foot 5	10.00	10.00			
Distribution Riser Cable Investment per foot 6	7.50	7.50			
Distribution Riser Cable Investment per foot 7	5.30	5.30			
Distribution Riser Cable Investment per foot 8	3.15	3.15			
Distribution Riser Cable Investment per foot 9	2.05	2.05			
Distribution Riser Cable Investment per foot 10	1.50	1.50			
Distribution Riser Cable Investment per foot 11	0.95	0.95			
Distribution Riser Cable Investment per foot 12	0.80	0.80			
Distance Multiplier for difficult terrain	1.00	1.00			
Rock Depth Threshold, inches	24.00	24.00			
Hard Rock Placement Multiplier	3.50	3.50			
Soft Rock Placement Multiplier	2.00	2.00			
Sidewalk/Street Fraction	0.20	0.20			
Local RT - Maximum Total Distance	18,000.00	18,000.00			
SAI Cable Size 1	7,200.00	7,200.00			
SAI Cable Size 2	5,400.00	5,400.00			
SAI Cable Size 3	3,600.00	3,600.00			
SAI Cable Size 4	2,400.00	2,400.00			
SAI Cable Size 5	1,800	1,800			
SAI Cable Size 6	1,200	1,200			
SAI Cable Size 7	900	900			

HAI Model Release 5.0a
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			

HAI Model Release 5.0a

User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
Constant EO Switching Investment Term, small ICO	520.14	520.14	Cost of Debt	0.088	0.088
Constant EO Switching Investment Term, BOC and large ICO	242.73	242.73	Debt Fraction	0.442	0.442
Switch Capacity Real-Time (BHCA) - 1	10,000	10,000	Cost of Equity	0.132	0.132
Switch Capacity Real-Time (BHCA) - 2	50,000	50,000	Average Trunk Utilization	0.300	0.300
Switch Capacity Real-Time (BHCA) - 3	200,000	200,000	Tax Rate	0.393	0.393
Switch Capacity Real-Time (BHCA) - 4	600,000	600,000	Corporate Overhead Factor	0.104	0.104
Switch Capacity Traffic (BHCCS) - 1	30,000	30,000	Other Taxes Factor	0.050	0.050
Switch Capacity Traffic (BHCCS) - 2	150,000	150,000	Billing/Bill Inquiry per line per month	2.300	2.300
Switch Capacity Traffic (BHCCS) - 3	600,000	600,000	Directory Listing per line per month	-	-
Switch Capacity Traffic (BHCCS) - 4	1,800,000	1,800,000	Forward-looking Network Operations Factor	1.000	1.000
Initial Switch Maximum Equipped Line Size	80,000	80,000	Alternative CO Switching Factor	0.048	0.048
Switch Port Administrative Fill	0.94	0.94	Alternative Circuit Equipment Factor	0.015	0.015
Switch Maximim Processor Occupancy	0.90	0.90	EO Traffic Sensitive Fraction	0.700	0.700
Processor Feature Loading Multiplier - normal	1.20	1.20	Monthly LNP cost, per line	0.250	0.250
Processor Feature Loading Multiplier - heavy business	2.00	2.00	Carrier to Carrier Customer Service, per line per ye	1.69	1.69
Processor Feature Loading Multiplier - business penetration threshold	0.30	0.30	NID Expense per line per year	1.00	1.00
MDF/Protector Investment per line	-	-	DS-0/DS-1 Terminal Factor	12.4	12.4
Analog Line Circuit Offset for DLC lines, per line	-	-	DS-1/DS-3 Terminal Factor	9.9	9.9
Switch Installation Multiplier	1.00	1.00	Average Lines per Business Location	4	4
Operator Traffic Fraction	0.02	0.02	Distribution Aerial Shring Fraction - 0	1.00	1.00
Total Interoffice Traffic Fraction	0.40	0.40	Distribution Aerial Shring Fraction - 5	1.00	1.00
Maximum Trunk Occupancy, CCS	27.50	27.50	Distribution Aerial Shring Fraction - 100	1.00	1.00
Trunk Port, per end	100.00	100.00	Distribution Aerial Shring Fraction - 200	0.50	0.50
Entrance Facility Distance, miles	0.50	0.50	Distribution Aerial Shring Fraction - 650	0.50	0.50
Direct-routed Fraction of Local Interoffice	0.98	0.98	Distribution Aerial Shring Fraction - 850	0.50	0.50
POPs per Tandem Location	5.00	5.00	Distribution Aerial Shring Fraction - 2550	0.50	0.50
Tandem-routed Fraction of Total IntraLATA Traffic	1.00	1.00	Distribution Aerial Shring Fraction - 5000	0.50	0.50
Tandem-routed Fraction of Total InterLATA Traffic	1.00	1.00	Distribution Aerial Shring Fraction - 10000	0.50	0.50
Local Call Attempts	4,498	4,498	Distribution Buried Shring Fraction - 0	1.00	1.00
Call Completion Factor	0.70	0.70	Distribution Buried Shring Fraction - 5	1.00	1.00
IntraLATA Calls Completed	269	269	Distribution Buried Shring Fraction - 100	1.00	1.00
InterLATA intrastate Calls Completed	271	271	Distribution Buried Shring Fraction - 200	1.00	1.00
InterLATA interstate Calls Completed	576	576	Distribution Buried Shring Fraction - 650	1.00	1.00
Local DEMs, thousands	19,853	19,853	Distribution Buried Shring Fraction - 850	1.00	1.00
Intrastate DEMs, thousands	4,239	4,239	Distribution Buried Shring Fraction - 2550	1.00	1.00
Interstate DEMs, thousands	4,185	4,185	Distribution Buried Shring Fraction - 5000	1.00	1.00
Local Business/Residence DEMs	1.10	1.10	Distribution Buried Shring Fraction - 10000	1.00	1.00
Intrastate Business/Residence DEMs	2.00	2.00	Distribution Underground Shring Fraction - 0	1.00	1.00
Interstate Business/Residence DEMs	3.00	3.00	Distribution Underground Shring Fraction - 5	1.00	1.00
BH Fraction of Daily Usage	0.10	0.10	Distribution Underground Shring Fraction - 100	1.00	1.00
Annual to Daily Usage Reduction Factor	270.00	270.00	Distribution Underground Shring Fraction - 200	1.00	1.00
Residential Holding Time Multiplier	1.00	1.00	Distribution Underground Shring Fraction - 650	1.00	1.00
Business Holding Time Multiplier	1.00	1.00	Distribution Underground Shring Fraction - 850	1.00	1.00
Residential Call Attempts per BH	1.30	1.30	Distribution Underground Shring Fraction - 2550	1.00	1.00
Business Call Attempts per BH	3.50	3.50	Distribution Underground Shring Fraction - 5000	1.00	1.00
ICO STP Investment, per line (equipment)	5.50	5.50	Distribution Underground Shring Fraction - 10000	1.00	1.00
ICO Local Tandem Investment, per line	1.90	1.90	Feeder Aerial Shring Fraction - 0	1.00	1.00
ICO OS Tandem Investment, per line	0.80	0.80	Feeder Aerial Shring Fraction - 5	1.00	1.00
ICO SCP Investment per line (equipment)	2.50	2.50	Feeder Aerial Shring Fraction - 100	1.00	1.00
ICO SCP - STP per line (wirecenter)	0.40	0.40	Feeder Aerial Shring Fraction - 200	0.50	0.50
ICO Local Tandem Investment, per line (wirecenter)	2.50	2.50	Feeder Aerial Shring Fraction - 650	0.50	0.50
ICO OS Tandem Investment, per line (wirecenter)	1.00	1.00	Feeder Aerial Shring Fraction - 850	0.50	0.50

HAI Model Release 5.0a

User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
ICO Tandem A Links and C Links per line (wirecenter)	0.30	0.30	Feeder Aerial Shring Fraction - 2550	0.50	0.50
Real-time Limit, BHCA	750,000	750,000	Feeder Aerial Shring Fraction - 5000	0.50	0.50
Port Limit, trunks	100,000	100,000	Feeder Aerial Shring Fraction - 10000	0.50	0.50
Common Equipment Investment	1,000,000	1,000,000	Feeder Underground Shring Fraction - 0	1.00	1.00
Maximum Port Fill	0.90	0.90	Feeder Underground Shring Fraction - 5	1.00	1.00
Maximum Real-time Occupancy	0.90	0.90	Feeder Underground Shring Fraction - 100	1.00	1.00
Common Equipment Intercept Factor	0.50	0.50	Feeder Underground Shring Fraction - 200	1.00	1.00
STP Link Capacity	720	720	Feeder Underground Shring Fraction - 650	1.00	1.00
STP Maximum Link Fill	0.80	0.80	Feeder Underground Shring Fraction - 850	1.00	1.00
Maximum STP Investment, per pair	5,000,000	5,000,000	Feeder Underground Shring Fraction - 2550	1.00	1.00
Minimum STP Investment, per pair	1,000,000	1,000,000	Feeder Underground Shring Fraction - 5000	1.00	1.00
Link Termination, both ends	900	900	Feeder Underground Shring Fraction - 10000	1.00	1.00
Signaling Link Bit Rate	56,000	56,000	Feeder Buried Shring Fraction - 0	1.00	1.00
Link Occupancy	0.40	0.40	Feeder Buried Shring Fraction - 5	1.00	1.00
C Link Cross Section	24.00	24.00	Feeder Buried Shring Fraction - 100	1.00	1.00
ISUP Messages per Interoffice BHCA	6.00	6.00	Feeder Buried Shring Fraction - 200	1.00	1.00
ISUP Message Length, bytes	25.00	25.00	Feeder Buried Shring Fraction - 650	1.00	1.00
TCAP Messages per transaction	2.00	2.00	Feeder Buried Shring Fraction - 850	1.00	1.00
TCAP Message length, bytes	100.00	100.00	Feeder Buried Shring Fraction - 2550	1.00	1.00
Fraction of BHCA requiring TCAP	0.10	0.10	Feeder Buried Shring Fraction - 5000	1.00	1.00
SCP Investment/Transaction/Second	20,000	20,000	Feeder Buried Shring Fraction - 10000	1.00	1.00
Operator Investment per position	6,400	6,400	Motor Vehicles - Economic Life	9.28	9.28
Operator Maximum Utilization, per position, CCS	32	32	Garage Work Equipment - Economic Life	11.04	11.04
Operator Intervention Factor	10	10	Other Work Equipment - Economic Life	13.47	13.47
Public Telephone Investment, per station	760	760	Buildings - Economic Life	47.82	47.82
Lot Size, Multiplier of Switch Room Size	2	2	Furniture - Economic Life	17.10	17.10
Tandem/EO Wire Center Common Factor	0.40	0.40	Office Support Equipment - Economic Life	11.58	11.58
Power Investment 1	-	-	Company Comm. Equipment - Economic Life	7.69	7.69
Power Investment 2	-	-	General Purpose Computer - Economic Life	6.36	6.36
Power Investment 3	-	-	Digital Electronic Switching - Economic Life	16.66	16.66
Power Investment 4	-	-	Operator Systems - Economic Life	9.33	9.33
Power Investment 5	-	-	Digital Circuit Equipment - Economic Life	10.07	10.07
Switch Room Size, sq ft 1	500	500	Public Telephone Terminal Equipment - Economic	8.26	8.26
Switch Room Size, sq ft 2	1,000	1,000	Poles - Economic Life	15.92	15.92
Switch Room Size, sq ft 3	2,000	2,000	Aerial Cable - metallic - Economic Life	16.75	16.75
Switch Room Size, sq ft 4	5,000	5,000	Aerial Cable - non metallic - Economic Life	22.24	22.24
Switch Room Size, sq ft 5	10,000	10,000	Underground Cable - metallic - Economic Life	21.14	21.14
Construction Investment, sq ft 1	75.00	75.00	Underground Cable - non metallic - Economic Life	23.08	23.08
Construction Investment, sq ft 2	85.00	85.00	Buried - metallic - Economic Life	19.90	19.90
Construction Investment, sq ft 3	100.00	100.00	Buried - non metallic - Economic Life	23.86	23.86
Construction Investment, sq ft 4	125.00	125.00	Intrabuilding Cable - metallic - Economic Life	15.71	15.71
Construction Investment, sq ft 5	150.00	150.00	Intrabuilding Cable - non metallic - Economic Life	23.62	23.62
Land Investment, sq ft 1	5	5	Conduit Systems - Economic Life	50.92	50.92
Land Investment, sq ft 2	8	8	Motor Vehicles - Net Salvage %	0.1121	0.1121
Land Investment, sq ft 3	10	10	Garage Work Equipment - Net Salvage %	-0.1071	-0.1071
Land Investment, sq ft 4	15	15	Other Work Equipment - Net Salvage %	0.0321	0.0321
Land Investment, sq ft 5	20	20	Buildings - Net Salvage %	0.0187	0.0187
OC-48 ADM, installed, 48 DS-3s	50,000	50,000	Furniture - Net Salvage %	0.0688	0.0688
OC-48 ADM, installed, 12 DS-3s	40,000	40,000	Office Support Equipment - Net Salvage %	0.0691	0.0691
OC-3/DS-1 Terminal Multiplexer, installed, 84 DS-1s	26,000	26,000	Company Comm. Equipment - Net Salvage %	0.0376	0.0376
Investment per 7 DS-1s	500	500	General Purpose Computer - Net Salvage %	0.0373	0.0373
Number of Fibers	24	24	Digital Electronic Switching - Net Salvage %	0.0297	0.0297

HAI Model Release 5.0a

User Adjustable Inputs

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

HAI Model Release 5.0a
User Adjustable Inputs

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

HAI Model Release 5.0a
User Adjustable Inputs

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