V. Physical Collocation Price Out

DS3 Cross-Conn ection Equipment Function

V. Physical Collocation Price Out

DS3 Cross-Connection Equipment Function

	A	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU
	Rate Elements/Investment Items	Total Annual Recurring Direct Unit Cost (Sum X+Y..+EE)	Total Monthly Recurring Direct Unit Cost (FF/12)	Monthly Recurring Rate Per Unit	Nonrecurring Hrly Direct Labor Cost Other Than D or F	Total Nonrecurring Direct Unit Cos (O or II)	Nonrecurring Rate Per Unit	Unit Of Measure	Units Required Per 100 DS3s	Total Monthly Recurring Direct Cost (GG*MM)	Total Nonrecurring Direct Cost (JJ*MM)	Amortized Nonrecurring Direct Cost	Total Monthly Direct Cost (NN or PP)	Total Monthly Recurring Charge (HH*MM)	Total Nonrecurring Charge (KK*MM)	Amortized Nonrecurring Charge	Total Monthly Charge (RR or TT)
									(Optional)					(Optional)			(Optional)
1	Passive Bay DS3 Termination																
2	DS3 Termination Panel	81.37	6.78	10.73	--	--	--	DS3 Term.	0	0	--	--	0	0	--	--	0
3	DS3 Termination Bay	1.54	0.13	0.21	--	--	--	DS3 Term.	0	0	--	--	0	0	--	--	0
4	Item C				--	--	--				--	--			--	--	
5	Item D				--	--	--				--	--			--	--	
6	Item E				--	--	--				--	--			--	--	
7	Total	82.91	6.91	10.94	--	--	--	--	--	0	--	--	0	0	--	--	0
8									(Optional)					(Optional)			(Optional)
9	200 Conductor Elec Term Block																
10	MDF per Conductor	166.9	13.91	22.02	--	--	--	Cross Conn Bl	0	0	--	--	0	0	--	--	0
11	MDF Connector Block per Conductor	252.48	21.04	33.31	--	--	--	Cross Conn Bl	0	0	--	--	0	0	--	--	0
12	Tie Cable per Conductor	289.59	24.13	38.2	--	--	--	Cross Conn Bl	0	0	--	--	0	0	--	--	0
13	Power Distribution Frame per Conductor	1.32	0.11	0.17	--	--	--	Cross Conn Bl	0	0	--	--	0	0	--	--	0
14	Item E				--	--	--				--	--			--	--	
15	Total	710.29	59.19	93.69	--	--	--	--	--	0	--	--	0	0	--	--	
16									(Optional)					(Optional)			(Optional)
17	DS3 Repeater				--	--	--				--	--			--	--	
18	DS3 Repeater	385.74	32.15	50.93	--	--	--	Repeater	0	0	--	--	0	0	--	--	0
19	DS3Repeater Bay Investment	33.85	2.82	4.47	--	--	--	Repeater	0	0	--	--	0	0	--	--	0
20	DS3 Repeater Panel Investment	3.97	0.33	0.52	--	--	--	Repeater	0	0	--	--	0	0	--	--	0
21	Item D				--	--	--				--	--			--	--	
22	Item E				--	--	--				--	--			--	--	
23	Total	423.56	35.3	55.92	--	--	--	--	0		--	--	0	0	--	--	0
24										--				--			
25	Nonrecurring Rate Element 1	--	--	--						--				--			
26	Item A	--	--	--	--					--				--			
27	Item B	--	--	--	--					--				--			
28	Item C	--	--	--	--					--				--			
29	Item D	--	--	--	--					--				--			
30	Item E	--	--	--				--	--	--				--			
31	Total	--	--	--													
32										--				--			
33	Nonrecurring Rate Element 2	--	--	--						--				--			
34	Item A	--	--	--	--					--				--			
35	Item B	--	--	--	--					--				--			
36	Item C	--	--	--	--					--				--			
37	Item D	--	--	--	--					--				--			
38	Item E							--	--	--				--			
39	Total	--	--	--													
40										--				--			
41	Nonrecurring Rate Element 3	--	--	--						--				--			
42	Item A	--	--	--	--					--				--			
43	Item B	--	--	--	--					--				--			
44	Item C	--	--	--	--					--				--			
45	Item D	--	--	--	--					--				--			
46	Item E							--	--	--				--			
47	Total	--	--	--						48 Total Monthly Direct Cost Per 100 DS3s			0	48 Total Monthly Charge Per 100 DS3s			0

III. Physical Collocation Investment
DS3 DC Power Installation Function

III. Physical Collocation Investment
DS3 DC Power Installation Function

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Rate Elements/Investment Items	Unit Investment	Installation Hours	Installation Direct Cost Per Hour	Engineering Hours	Engineering Direct Cost Per Hour	Installed Unit Investment (B+(C*D)+(E*F))	Unit Capacity	Fill Factor (% Utilization)	Unit Capacity Investment (B/H/I)	Installation Per Unit (C*D/H/I)	Engineering Per Unit (E*F/H/I)	Installed Unit Capacity Investment (G/H/I)	Required No. of Items Per Unit	Total Installed Unit Cap Investment (M*N)
1	**Recurring Rate Element 1**														
2	Item A														
3	Item B														
4	Item C														
5	Item D														
6	Item E														
7	Total	–	–	–	–	–	–	–	–					–	
8															
9	**Recurring Rate Element 2**														
10	Item A														
11	Item B														
12	Item C														
13	Item D														
14	Item E														
15	Total	–	–	–	–	–	–	–	–					–	
16															
17	**Recurring Rate Element 3**														
18	Item A														
19	Item B														
20	Item C														
21	Item D														
22	Item E														
23	Total	–	–	–	–	–	–	–	–					–	
24															
25	**Power Delivery**														
26	Secondary Battery Distribution Fuse Board	8043.53	5.16	41.17	27.36	53.69	9724.93	200	1	40.22	1.06	7.34	48.62	2	97.24
27	Secondary Cable Rack	6521.28	5.06	41.17	22.18	53.69	7920.44	200	1	32.61	1.04	5.95	39.6	2	79.2
28	No. 1/0 Cable for Grounding	856.64	0.55	41.17	2.91	53.69	1035.52	200	1	4.28	0.11	0.78	5.18	2	10.36
29	Grounding Cable Rack	1735.04	1.11	41.17	5.9	53.69	2097.51	200	1	8.68	0.23	1.58	10.49	2	20.98
30	Second Power Cable	877.68	0.56	41.17	2.99	53.69	1061.27	1	1	877.68	23.06	160.53	1061.27	1	1061.27
31	Total	–	–	–	–	–	–	–	–	965.47	25.5	176.18	1165.16	–	1269.05
32															
33	**Nonrecurring Rate Element 2**														
34	Item A														
35	Item B														
36	Item C														
37	Item D														
38	Item E														
39	Total	–	–	–	–	–	–	–	–					–	
40															
41	**Nonrecurring Rate Element 3**														
42	Item A														
43	Item B														
44	Item C														
45	Item D														
46	Item E														
47	Total	–	–	–	–	–	–	–	–					–	

IV. Physical Collocation Direct Costs
DS3 DC Power Installation Function

IV. Physical Collocation Direct Costs
DS3 DC Power Installation Function

	A	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
	Rate Elements/Investment Items	Depreciation ACF	Cost of Money ACF	FIT ACF	SLIT ACF	Other Tax ACF	Maintenance ACF	Administrative ACF	Other ACF	Depreciation Expense (O*P)	Dollar Cost of Money (O*Q)	FIT Expense (O*R)	SLIT Expense (O*S)	Other Tax Expense (O*T)	Maintenance Expense (O*U)	Administrative Expense (O*V)	Other Expense (O*W)
1	Recurring Rate Element 1																
2	Item A																
3	Item B																
4	Item C																
5	Item D																
6	Item E																
7	Total	--	--	--	--	--	--	--	--								
8																	
9	Recurring Rate Element 2																
10	Item A																
11	Item B																
12	Item C																
13	Item D																
14	Item E																
15	Total	--	--	--	--	--	--	--	--								
16																	
17	Recurring Rate Element 3																
18	Item A																
19	Item B																
20	Item C																
21	Item D																
22	Item E																
23	Total	--	--	--	--	--	--	--	--								
24																	
25	Power Delivery	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Secondary Battery Distribution Fuse Board	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	Secondary Cable Rack	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	No. 1/0 Cable for Grounding	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Grounding Cable Rack	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Second Power Cable	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32																	
33	Nonrecurring Rate Element 2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
37	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
38	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
39	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40																	
41	Nonrecurring Rate Element 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
42	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
46	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

V. Physical Collocation Price Out
DS3 DC Power Installation Function

V. Physical Collocation Price Out
DS3 DC Power Installation Function

	A Rate Elements/Investment Items	FF Total Annual Recurring Direct Unit Cost (Sum X+Y...+EE)	GG Total Monthly Recurring Direct Unit Cost (FF/12)	HH Monthly Recurring Rate Per Unit	II Nonrecurring Hrly Direct Labor Cost Other Than D or F	JJ Total Nonrecurring Direct Unit Cost (O or II)	KK Nonrecurring Rate Per Unit	LL Unit Of Measure	MM Units Required Per 100 DS3s	NN Total Monthly Recurring Direct Cost (GG*MM)	OO Total Nonrecurring Direct Cost (JJ*MM)	PP Amortized Nonrecurring Direct Cost	QQ Total Monthly Direct Cost (NN or PP)	RR Total Monthly Recurring Charge (HH*MM)	SS Total Nonrecurring Charge (KK*MM)	TT Amortized Nonrecurring Charge	UU Total Monthly Charge (RR or TT)
1	Recurring Rate Element 1																
2	Item A				--	--	--				--	--			--	--	
3	Item B				--	--	--				--	--			--	--	
4	Item C				--	--	--				--	--			--	--	
5	Item D				--	--	--				--	--			--	--	
6	Item E				--	--	--				--	--			--	--	
7	Total				--	--	--	--	--		--	--			--	--	
8																	
9	Recurring Rate Element 2				--	--	--				--	--			--	--	
10	Item A				--	--	--				--	--			--	--	
11	Item B				--	--	--				--	--			--	--	
12	Item C				--	--	--				--	--			--	--	
13	Item D				--	--	--				--	--			--	--	
14	Item E				--	--	--				--	--			--	--	
15	Total				--	--	--	--	--		--	--			--	--	
16																	
17	Recurring Rate Element 3				--	--	--				--	--			--	--	
18	Item A				--	--	--				--	--			--	--	
19	Item B				--	--	--				--	--			--	--	
20	Item C				--	--	--				--	--			--	--	
21	Item D				--	--	--				--	--			--	--	
22	Item E				--	--	--				--	--			--	--	
23	Total				--	--	--	--	--		--	--			--	--	
24																	
25	Power Delivery	--	--	--						--				--			
26	Secondary Battery Distribution Fuse Board	--	--	--	--	97.24	147.76	Power Lead	4	--	388.96	8.43	8.43	--	591.04	12.8	12.8
27	Secondary Cable Rack	--	--	--	--	79.2	120.35	Power Lead	4	--	316.8	6.86	6.86	--	481.4	10.43	10.43
28	No. 1/0 Cable for Grounding	--	--	--	--	10.36	15.74	Power Lead	4	--	41.44	0.9	0.9	--	62.96	1.36	1.36
29	Grounding Cable Rack	--	--	--	--	20.98	31.88	Power Lead	4	--	83.92	1.82	1.82	--	127.52	2.76	2.76
30	Second Power Cable	--	--	--	--	1061.27	1612.63	Power Lead	4	--	4245.08	91.97	91.97	--	6450.52	139.74	139.74
31	Total	--	--	--		1269.05	1928.36	--	--	--	5076.2	109.98	109.98	--	7713.44	167.09	167.09
32																	
33	Nonrecurring Rate Element 2	--	--	--						--				--			
34	Item A	--	--	--	--					--				--			
35	Item B	--	--	--	--					--				--			
36	Item C	--	--	--	--					--				--			
37	Item D	--	--	--	--					--				--			
38	Item E	--	--	--	--					--				--			
39	Total	--	--	--				--	--	--				--			
40																	
41	Nonrecurring Rate Element 3	--	--	--						--				--			
42	Item A	--	--	--	--					--				--			
43	Item B	--	--	--	--					--				--			
44	Item C	--	--	--	--					--				--			
45	Item D	--	--	--	--					--				--			
46	Item E	--	--	--	--					--				--			
47	Total	--	--	--				--	--	--				--			
										48 Total Monthly Direct Cost Per 100 DS3s			109.98	48 Total Monthly Charge Per 100 DS3s			167.09

Chart III

III. Physical Collocation Investment
DS3 DC Power Generation Function

III. Physical Collocation Investment
DS3 DC Power Generation Function

IV. Physical C
DS3 DC Po

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Rate Elements/Investment Items	Unit Investment	Installation Hours	Installation Direct Cost Per Hour	Engineering Hours	Engineering Direct Cost Per Hour	Installed Unit Investment (B+(C*D)+(E*F))	Unit Capacity	Fill Factor (% Utilization)	Unit Capacity Investment (B/H/I)	Installation Per Unit (C*D/H/I)	Engineering Per Unit (E*F/H/I)	Installed Unit Capacity Investment (G/H/I)	Required No. of Items Per Unit	Total Installed Unit Cap Investment (M*N)
1	Power Consumption	0.10					0.10	1	1	0.10	0	0	0.10	456.4	45.64
2	Kilowatt Hours	15.06					15.06	1	1	15.06	0	0	15.06	1	15.06
3	Incremental Air Conditioning														
4	Item C														
5	Item D														
6	Item E	–	–	–	–	–	–	–	–	15.16	0	0	15.16	–	60.7
7	Total														
8															
9	Recurring Rate Element 2														
10	Item A														
11	Item B														
12	Item C														
13	Item D														
14	Item E	–	–	–	–	–	–	–	–					–	
15	Total														
16															
17	Recurring Rate Element 3														
18	Item A														
19	Item B														
20	Item C														
21	Item D														
22	Item E	–	–	–	–	–	–	–	–					–	
23	Total														
24															
25	Nonrecurring Rate Element 1														
26	Item A														
27	Item B														
28	Item C														
29	Item D														
30	Item E	–	–	–	–	–	–	–	–					–	
31	Total														
32															
33	Nonrecurring Rate Element 2														
34	Item A														
35	Item B														
36	Item C														
37	Item D														
38	Item E	–	–	–	–	–	–	–	–					–	
39	Total														
40															
41	Nonrecurring Rate Element 3														
42	Item A														
43	Item B														
44	Item C														
45	Item D														
46	Item E	–	–	–	–	–	–	–	–					–	
47	Total														

llocation Direct Costs
er Generation Function

IV. Physical Collocation Direct Costs
DS3 DC Power Generation Function

	A	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
	Rate Elements/Investment Items	Depreciation ACF	Cost of Money ACF	FIT ACF	SLIT ACF	Other Tax ACF	Maintenance ACF	Administrative ACF	Other ACF	Depreciation Expense (O*P)	Dollar Cost of Money (O*Q)	FIT Expense (O*R)	SLIT Expense (O*S)	Other Tax Expense (O*T)	Maintenance Expense (O*U)	Administrative Expense (O*V)	Other Expense (O*W)
1	Power Consumption																
2	Kilowatt Hours	0	0	0	0	0	0	0	1.039526	0	0	0	0	0	0	0	47.44
3	Incremental Air Conditioning	0	0	0	0	0	0	0	1.039526	0	0	0	0	0	0	0	15.66
4	Item C																
5	Item D																
6	Item E																
7	Total	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	63.1
8																	
9	Recurring Rate Element 2																
10	Item A																
11	Item B																
12	Item C																
13	Item D																
14	Item E																
15	Total	--	--	--	--	--	--	--	--								
16																	
17	Recurring Rate Element 3																
18	Item A																
19	Item B																
20	Item C																
21	Item D																
22	Item E																
23	Total	--	--	--	--	--	--	--	--								
24																	
25	Nonrecurring Rate Element 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32																	
33	Nonrecurring Rate Element 2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
37	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
38	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
39	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40																	
41	Nonrecurring Rate Element 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
42	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
46	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

V. Physical Collocation Price Out
DS3 DC Power Generation Function

	A	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU
	Rate Elements/Investment Items	Total Annual Recurring Direct Unit Cost (Sum X+Y..+EE)	Total Monthly Recurring Direct Unit Cost (FF/12)	Monthly Recurring Rate Per Unit	Nonrecurring Hrly Direct Labor Cost Other Than D or F	Total Nonrecurring Direct Unit Cost (O or II)	Nonrecurring Rate Per Unit	Unit Of Measure	Units Required Per 100 DS3s	Total Monthly Recurring Direct Cost (GG*MM)	Total Nonrecurring Direct Cost (JJ*MM)	Amortized Nonrecurring Direct Cost	Total Monthly Direct Cost (NN or PP)	Total Monthly Recurring Charge (HH*MM)	Total Nonrecurring Charge (KK*MM)	Amortized Nonrecurring Charge	Total Monthly Charge (RR or TT)
1	Power Consumption																
2	Killowatt Hours	47.44	3.95	6.00	--	--	--	per Fuse AMP	40	158.00	--	--	158.00	240.00	--	--	240.00
3	Incremental Air Conditioning	15.66	1.31	1.99	--	--	--	per Fuse AMP	40	52.40	--	--	52.40	79.60	--	--	79.60
4	Item C				--	--	--				--	--			--	--	
5	Item D				--	--	--				--	--			--	--	
6	Item E				--	--	--				--	--			--	--	
7	Total	63.1	5.26	7.99	--	--	--	--	--	210.4	--	--	210.4	319.6	--	--	319.6
8																	
9	Recurring Rate Element 2				--	--	--				--	--			--	--	
10	Item A				--	--	--				--	--			--	--	
11	Item B				--	--	--				--	--			--	--	
12	Item C				--	--	--				--	--			--	--	
13	Item D				--	--	--				--	--			--	--	
14	Item E				--	--	--				--	--			--	--	
15	Total				--	--	--	--	--		--	--			--	--	
16																	
17	Recurring Rate Element 3				--	--	--				--	--			--	--	
18	Item A				--	--	--				--	--			--	--	
19	Item B				--	--	--				--	--			--	--	
20	Item C				--	--	--				--	--			--	--	
21	Item D				--	--	--				--	--			--	--	
22	Item E				--	--	--				--	--			--	--	
23	Total				--	--	--	--	--		--	--			--	--	
24																	
25	Nonrecurring Rate Element 1	--	--	--						--				--			
26	Item A	--	--	--	--					--				--			
27	Item B	--	--	--	--					--				--			
28	Item C	--	--	--	--					--				--			
29	Item D	--	--	--	--					--				--			
30	Item E	--	--	--	--					--				--			
31	Total	--	--	--				--	--	--				--			
32																	
33	Nonrecurring Rate Element 2	--	--	--						--				--			
34	Item A	--	--	--	--					--				--			
35	Item B	--	--	--	--					--				--			
36	Item C	--	--	--	--					--				--			
37	Item D	--	--	--	--					--				--			
38	Item E	--	--	--	--					--				--			
39	Total	--	--	--				--	--	--				--			
40																	
41	Nonrecurring Rate Element 3	--	--	--						--				--			
42	Item A	--	--	--	--					--				--			
43	Item B	--	--	--	--					--				--			
44	Item C	--	--	--	--					--				--			
45	Item D	--	--	--	--					--				--			
46	Item E	--	--	--	--					--				--			
47	Total	--	--	--				--	--	--				--			
										48 Total Monthly Direct Cost Per 100 DS3s			210.4	48 Total Monthly Charge Per 100 DS3s			319.6

III. Physical Collocation Investment
DS3 Security Installation Function

III. Physical Collocation Investment
DS3 Security Installation Function

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Rate Elements/Investment Items	Unit Investment	Installation Hours	Installation Direct Cost Per Hour	Engineering Hours	Engineering Direct Cost Per Hour	Installed Unit Investment (B+(C*D)+(E*F))	Unit Capacity	Fill Factor (% Utilization)	Unit Capacity Investment (B/H/I)	Installation Per Unit (C*D/H/I)	Engineering Per Unit (E*F/H/I)	Installed Unit Capacity Investment (G/H/I)	Required No. of Items Per Unit	Total Installed Unit Cap Investment (M*N)
1	**Recurring Rate Element 1**														
2	Item A														
3	Item B														
4	Item C														
5	Item D														
6	Item E														
7	Total	–	–	–	–	–	–	–	–					–	
8															
9	**Recurring Rate Element 2**														
10	Item A														
11	Item B														
12	Item C														
13	Item D														
14	Item E														
15	Total	–	–	–	–	–	–	–	–					–	
16															
17	**Recurring Rate Element 3**														
18	Item A														
19	Item B														
20	Item C														
21	Item D														
22	Item E														
23	Total	–	–	–	–	–	–	–	–					–	
24															
25	**Central Office Buildout Initial 100 Feet**														
26	Engineering				4.26	55.92	238.22	1	1	0	0	238.22	238.22	1	238.22
27	Building work		25.55	88.53			2,261.94	1	1	0	2261.94	0	2261.94	1	2261.94
28	Item C														
29	Item D														
30	Item E														
31	Total	–	–	–	–	–	–	–	–	0	2261.94	238.22	2500.16	–	2500.16
32															
33	**Central Office Buildout ADDL 100 Feet**														
34															
35	Building work		25.55	88.53			2,261.94	1	1	0	2261.94	0	2261.94	1	2261.94
36	Item C														
37	Item D														
38	Item E														
39	Total	–	–	–	–	–	–	–	–	0	2261.94	0	2261.94	–	2261.94
40															
41	**Nonrecurring Rate Element 3**														
42	Item A														
43	Item B														
44	Item C														
45	Item D														
46	Item E														
47	Total	–	–	–	–	–	–	–	–					–	

IV. Physical Collocation Direct Costs
DS3 Security Installation Function

IV. Physical Collocation Direct Costs
DS3 Security Installation Function

	A	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
	Rate Elements/Investment Items	Depreciation ACF	Cost of Money ACF	FIT ACF	SLIT ACF	Other Tax ACF	Maintenance ACF	Administrative ACF	Other ACF	Depreciation Expense (O*P)	Dollar Cost of Money (O*Q)	FIT Expense (O*R)	SLIT Expense (O*S)	Other Tax Expense (O*T)	Maintenance Expense (O*U)	Administrative Expense (O*V)	Other Expense (O*W)
1	Recurring Rate Element 1																
2	Item A																
3	Item B																
4	Item C																
5	Item D																
6	Item E																
7	Total	--	--	--	--	--	--	--	--								
8																	
9	Recurring Rate Element 2																
10	Item A																
11	Item B																
12	Item C																
13	Item D																
14	Item E																
15	Total	--	--	--	--	--	--	--	--								
16																	
17	Recurring Rate Element 3																
18	Item A																
19	Item B																
20	Item C																
21	Item D																
22	Item E																
23	Total	--	--	--	--	--	--	--	--								
24																	
25	Central Office Buildout Initial 100 Feet	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Engineering	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	Building work	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32																	
33	Central Office Buildout ADDL 100 Feet	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34																	
35	Building work	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
37	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
38	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
39	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40																	
41	Nonrecurring Rate Element 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
42	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
46	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

V. Physical Collocation Price Out
DS3 Security Installation Function

	A	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU
	Rate Elements/Investment Items	Total Annual Recurring Direct Unit Cost (Sum X+Y..+EE)	Total Monthly Recurring Direct Unit Cost (FF/12)	Monthly Recurring Rate Per Unit	Nonrecurring Hrly Direct Labor Cost Other Than D or F	Total Nonrecurring Direct Unit Cos (O or II)	Nonrecurring Rate Per Unit	Unit Of Measure	Units Required Per 100 DS3s	Total Monthly Recurring Direct Cost (GG*MM)	Total Nonrecurring Direct Cost (JJ*MM)	Amortized Nonrecurring Direct Cost	Total Monthly Direct Cost (NN or PP)	Total Monthly Recurring Charge (HH*MM)	Total Nonrecurring Charge (KK*MM)	Amortized Nonrecurring Charge	Total Monthly Charge (RR or TT)
1	Recurring Rate Element 1																
2	Item A				--	--	--				--	--			--	--	
3	Item B				--	--	--				--	--			--	--	
4	Item C				--	--	--				--	--			--	--	
5	Item D				--	--	--				--	--			--	--	
6	Item E				--	--	--				--	--			--	--	
7	Total				--	--	--	--	--		--	--			--	--	
8																	
9	Recurring Rate Element 2				--	--	--				--	--			--	--	
10	Item A				--	--	--				--	--			--	--	
11	Item B				--	--	--				--	--			--	--	
12	Item C				--	--	--				--	--			--	--	
13	Item D				--	--	--				--	--			--	--	
14	Item E				--	--	--				--	--			--	--	
15	Total				--	--	--	--	--		--	--			--	--	
16																	
17	Recurring Rate Element 3				--	--	--				--	--			--	--	
18	Item A				--	--	--				--	--			--	--	
19	Item B				--	--	--				--	--			--	--	
20	Item C				--	--	--				--	--			--	--	
21	Item D				--	--	--				--	--			--	--	
22	Item E				--	--	--				--	--			--	--	
23	Total				--	--	--	--	--		--	--			--	--	
24																	
25	Central Office Buildout Initial 100 Feet	--	--	--						--				--			
26	Engineering	--	--	--	--	238.22	377.38	100 Sq Ft	1	--	238.22	5.16	5.16	--	377.38	8.18	8.18
27	Building work	--	--	--	--	2261.94	3583.3	100 Sq Ft	1	--	2261.94	49	49	--	3583.3	77.63	77.63
28	Item C	--	--	--	--					--				--			
29	Item D	--	--	--	--					--				--			
30	Item E	--	--	--	--					--				--			
31	Total	--	--	--		2500.16	3960.68	--	--	--	2500.16	54.16	54.16	--	3960.68	85.81	85.81
32																	
33	Central Office Buildout ADDL 100 Feet	--	--	--						--				--			
34																	
35	Building work	--	--	--	--	2261.94	3583.3	100 Sq Ft	0	--	0	0	0	--	0	0	0
36	Item C	--	--	--	--					--				--			
37	Item D	--	--	--	--					--				--			
38	Item E	--	--	--	--					--				--			
39	Total	--	--	--		2261.94	3583.3	--	--	--	0	0	0	--	0	0	0
40																	
41	Nonrecurring Rate Element 3	--	--	--						--				--			
42	Item A	--	--	--	--					--				--			
43	Item B	--	--	--	--					--				--			
44	Item C	--	--	--	--					--				--			
45	Item D	--	--	--	--					--				--			
46	Item E	--	--	--	--					--				--			
47	Total	--	--	--				--	--	--				--			
										48 Total Monthly Direct Cost Per 100 DS3s			54.16	48 Total Monthly Charge Per 100 DS3s			85.81

III. Physical Collocation Investment
DS3 Security Active Function

III. Physical Collocation Investment
DS3 Security Active Function

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Rate Elements/Investment Items	Unit Investment	Installation Hours	Installation Direct Cost Per Hour	Engineering Hours	Engineering Direct Cost Per Hour	Installed Unit Investment (B+(C*D)+(E*F))	Unit Capacity	Fill Factor (% Utilization)	Unit Capacity Investment (B/H/I)	Installation Per Unit (C*D/H/I)	Engineering Per Unit (E*F/H/I)	Installed Unit Capacity Investment (G/H/I)	Required No. of Items Per Unit	Total Installed Unit Cap Investment (M*N)
1	**Recurring Rate Element 1**														
2	Item A														
3	Item B														
4	Item C														
5	Item D														
6	Item E	–	–	–	–	–	–	–	–					–	
7	Total														
8															
9	**Recurring Rate Element 2**														
10	Item A														
11	Item B														
12	Item C														
13	Item D														
14	Item E	–	–	–	–	–	–	–	–					–	
15	Total														
16															
17	**Recurring Rate Element 3**														
18	Item A														
19	Item B														
20	Item C														
21	Item D														
22	Item E	–	–	–	–	–	–	–	–					–	
23	Total														
24															
25	**Nonrecurring Rate Element 1**														
26	Item A														
27	Item B														
28	Item C														
29	Item D														
30	Item E	–	–	–	–	–	–	–	–					–	
31	Total														
32															
33	**Nonrecurring Rate Element 2**														
34	Item A														
35	Item B														
36	Item C														
37	Item D														
38	Item E	–	–	–	–	–	–	–	–					–	
39	Total														
40															
41	**Nonrecurring Rate Element 3**														
42	Item A														
43	Item B														
44	Item C														
45	Item D														
46	Item E	–	–	–	–	–	–	–	–					–	
47	Total														

IV. Physical Collocation Direct Costs
DS3 Security Active Function

IV. Physical Collocation Direct Costs
DS3 Security Active Function

	A	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
	Rate Elements/Investment Items	Depreciation ACF	Cost of Money ACF	FIT ACF	SLIT ACF	Other Tax ACF	Maintenance ACF	Administrative ACF	Other ACF	Depreciation Expense (O*P)	Dollar Cost of Money (O*Q)	FIT Expense (O*R)	SLIT Expense (O*S)	Other Tax Expense (O*T)	Maintenance Expense (O*U)	Administrative Expense (O*V)	Other Expense (O*W)
1	Recurring Rate Element 1																
2	Item A																
3	Item B																
4	Item C																
5	Item D																
6	Item E																
7	Total	--	--	--	--	--	--	--	--								
8																	
9	Recurring Rate Element 2																
10	Item A																
11	Item B																
12	Item C																
13	Item D																
14	Item E																
15	Total	--	--	--	--	--	--	--	--								
16																	
17	Recurring Rate Element 3																
18	Item A																
19	Item B																
20	Item C																
21	Item D																
22	Item E																
23	Total	--	--	--	--	--	--	--	--								
24																	
25	Nonrecurring Rate Element 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32																	
33	Nonrecurring Rate Element 2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
37	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
38	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
39	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40																	
41	Nonrecurring Rate Element 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
42	Item A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43	Item B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44	Item C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45	Item D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
46	Item E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47	Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

V. Physical Collocation Price Out
DS3 Security Active Function

	A	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU
	Rate Elements/Investment Items	Total Annual Recurring Direct Unit Cost (Sum X+Y..+EE)	Total Monthly ecurring Direc Unit Cost (FF/12)	Monthly Recurring Rate Per Unit	Nonrecurring Hrly Direct Labor Cost Other Than D or F	Total Nonrecurring Direct Unit Cost (O or II)	Nonrecurring Rate Per Unit	Unit Of Measure	Units Required Per 100 DS3s	Total Monthly Recurring Direct Cost (GG*MM)	Total Nonrecurring Direct Cost (JJ*MM)	Amortized Nonrecurring Direct Cost	Total Monthly Direct Cost (NN or PP)	Total Monthly Recurring Charge (HH*MM)	Total Nonrecurring Charge (KK*MM)	Amortized Nonrecurring Charge	Total Monthly Charge (RR or TT)
1	Recurring Rate Element 1				--	--	--				--	--			--	--	
2	Item A				--	--	--				--	--			--	--	
3	Item B				--	--	--				--	--			--	--	
4	Item C				--	--	--				--	--			--	--	
5	Item D				--	--	--				--	--			--	--	
6	Item E				--	--	--	--	--		--	--			--	--	
7	Total																
8					--	--	--				--	--			--	--	
9	Recurring Rate Element 2				--	--	--				--	--			--	--	
10	Item A				--	--	--				--	--			--	--	
11	Item B				--	--	--				--	--			--	--	
12	Item C				--	--	--				--	--			--	--	
13	Item D				--	--	--				--	--			--	--	
14	Item E				--	--	--	--	--		--	--			--	--	
15	Total																
16					--	--	--				--	--			--	--	
17	Recurring Rate Element 3				--	--	--				--	--			--	--	
18	Item A				--	--	--				--	--			--	--	
19	Item B				--	--	--				--	--			--	--	
20	Item C				--	--	--				--	--			--	--	
21	Item D				--	--	--				--	--			--	--	
22	Item E				--	--	--	--	--		--	--			--	--	
23	Total																
24		--	--	--						--				--			
25	Nonrecurring Rate Element 1	--	--	--	--					--				--			
26	Item A	--	--	--	--					--				--			
27	Item B	--	--	--	--					--				--			
28	Item C	--	--	--	--					--				--			
29	Item D	--	--	--	--					--				--			
30	Item E	--	--	--				--	--	--				--			
31	Total																
32		--	--	--						--				--			
33	Nonrecurring Rate Element 2	--	--	--	--					--				--			
34	Item A	--	--	--	--					--				--			
35	Item B	--	--	--	--					--				--			
36	Item C	--	--	--	--					--				--			
37	Item D	--	--	--	--					--				--			
38	Item E	--	--	--				--	--	--				--			
39	Total																
40		--	--	--						--				--			
41	Nonrecurring Rate Element 3	--	--	--	--					--				--			
42	Item A	--	--	--	--					--				--			
43	Item B	--	--	--	--					--				--			
44	Item C	--	--	--	--					--				--			
45	Item D	--	--	--	--					--				--			
46	Item E	--	--	--				--	--	--				--			
47	Total																

48 Total Monthly Direct Cost Per 100 DS3s	0	48 Total Monthly Charge Per 100 DS3s	0
49 Grand Tot Monthly Direct Cost Per 100 DS3s	2008.50	49 Grand Tot Monthly Charge Per 100 DS3s	3438.36

DEVELOPMENT OF RISER COSTS FOR PHYSICAL INTERCONNECTION WP-3

		INVESTMENT DEVELOPMENT (A)	ANNUAL CHARGE FACTORS (B)	ANNUAL COSTS C=A*B
1	INVESTMENT IN RISER SPACE (SOURCE: VENDOR ESTIMATES)	$4,000		
2	CABLES PER RISER SPACE	160		
3	RISER INV. PER CABLE (L1/L2)	$25		
4	AVG DISTANCE PER FLOOR (FEET)	15		
5	AVERAGE NO. OF FLOORS	3		
6	RISER INV. PER FT. (L3/(L4*L5))	$0.56		
7	RACKING INVESTMENT PER FOOT	$80		
8	AVG. NO. CUSTOMERS PER C.O.	1.45		
9	RACKING INV PER FT. PER CUST. (L7/L8)	$55.17		
10	TOTAL INVESTMENT PER FT. (L6+L9)	$55.73		
11	TELEPHONE PLANT INDEX FACTOR (TPI)	0.99		
12	1993 ADJUSTED TOTAL INV. PER FT. (L11*L12)	$55.17		
13	COST OF MONEY		0.046243	$2.55
14	INCOME TAX		0.018188	1.00
15	DEPRECIATION EXPENSE		0.167100	9.22
16	MAINTENANCE EXPENSE		0.015345	0.85
17	AD VALOREM TAX		0.009030	0.50
18	GROSS RECEIPTS TAX ((L13C THRU L17C)*L18B)		0.013458	0.19
19	TOTAL ANNUAL COSTS PER FT. (L13 THRU L18)			14.30
20	TOTAL MONTHLY COST PER FT. (L19/12)			1.19

NOTE: RACKING INV. OF $80.00/FT. CONSISTS OF:

ENGINEERING COST:	$20.00/FT	SOURCE:VENDOR ESTIMATES
INSTALLATION COST:	$40.00/FT	SOURCE:VENDOR ESTIMATES
MATERIAL COST:	$20.00/FT	SOURCE:VENDOR ESTIMATES

AMERITECH CENTRAL OFFICE INTERCONNECTION
ENTRANCE FACILITY
Per Innerduct Foot

TOTAL INVESTMENT	$4.21
RECURRING COSTS	
Depreciation	$0.08
Cost of Money	$0.33
Income Tax	$0.16
Maintenance	$0.02
Ad Valorem Tax	$0.03
Total Annual Cost	$0.62
Monthly Cost	$0.05
Gross Receipts Tax	$0.00
Total Monthly Cost	$0.05
Entrance Facility Monthly Rate	$0.08
Direct Unit Cost to Unit Investment Ratio	0.01
Direct Unit Cost to Unit Price Ratio	0.63

	Item:	Entrance Conduit - Per innerduct foot						
	Acct:	4C						
A. INVESTMENT								
				IL	IN	MI	OH	WI
1	1993 Investment			$3.76	$3.76	$3.76	$3.76	$3.76
2	1996 TPI Index			119	119	119	119	119
3	1993 TPI Index			106.3	106.3	106.3	106.3	106.3
4	TPI Factor		(L2 / L3)	1.1195	1.1195	1.1195	1.1195	1.1195
5	1996 Investment		(L1 * L4)	$4.21	$4.21	$4.21	$4.21	$4.21
				IL	IN	MI	OH	WI
B. ANNUAL CHARGE FACTORS								
	Depreciation			0.0200	0.0200	0.0200	0.0200	0.0200
	Cost of Money			0.0769	0.0776	0.0785	0.0786	0.0768
	Income Tax			0.0406	0.0379	0.0342	0.0339	0.0412
	Maintenance			0.0066	0.0052	0.0022	0.0051	0.0051
	Ad Valorem Tax			0.0025	0.0066	0.0097	0.0192	0.0000
C. ANNUAL COSTS (A * B)								
	Depreciation			0.08	0.08	0.08	0.08	0.08
	Cost of Money			0.32	0.33	0.33	0.33	0.32
	Income Tax			0.17	0.16	0.14	0.14	0.17
	Maintenance			0.03	0.02	0.01	0.02	0.02
	Ad Valorem Tax			0.01	0.03	0.04	0.08	0.00
D. JURISDICTION WEIGHTING				0.22	0.12	0.27	0.27	0.12
E. WEIGHTED ANNUAL COSTS (C * D)								Ameritech Weighted Average
				IL	IN	MI	OH	WI
	Depreciation			0.02	0.01	0.02	0.02	0.01	$0.08
	Cost of Money			0.07	0.04	0.09	0.09	0.04	$0.33
	Income Tax			0.04	0.02	0.04	0.04	0.02	$0.16
	Maintenance			0.01	0.00	0.00	0.01	0.00	$0.02
	Ad Valorem Tax			0.00	0.00	0.01	0.02	0.00	$0.03
	Total Annual Cost			0.14	0.07	0.16	0.18	0.07	$0.62
	Ameritech Weighted Average Monthly Cost								$0.05
F	COST to RATE FACTOR								1.65
G. MONTHLY ENTRANCE CONDUIT COST				(F*E)					$ 0.08

Trans. 697

AMERITECH CENTRAL OFFICE INTERCONNECTION
ENTRANCE CONDUIT - PER INNERDUCT FT.

TOTAL INVESTMENT	$3.76
COST OF MONEY	0.28
INCOME TAX	0.11
DEPRECIATION EXPENSE	0.06
MAINTENANCE EXPENSE	0.02
AD VALOREM TAX	0.03
GROSS RECEIPTS TAX	0.01
ANNUAL COST PER INNERDUCT FT.	0.51
MONTHLY COST PER INNERDUCT FT.	0.04

Trans. 697
Reply Com

DEVELOPMENT OF NEW CONDUIT COSTS

WP-5

	ILLINOIS	INDIANA	MICHIGAN	OHIO	WISCONSIN	AMERITECH
1 NEW CONDUIT INV	$3.46	$4.01	$3.59	$4.00	$3.04	$3.65
2 TEL PLT INDEX	1.03	1.03	1.03	1.03	1.03	1.03
3 ADJ 1993 NEW CONDUIT INV (L1*L2)	$3.56	$4.13	$3.70	$4.12	$3.13	$3.76
4 AMERITECH WEIGHTING FACTORS	0.20	0.22	0.20	0.22	0.17	1.00
5 WEIGHTED 1993 NEW CONDUIT INV (L3*L4)	$0.70	$0.89	$0.73	$0.91	$0.52	$3.76
6 COST OF MONEY (L5*L6A)						$0.28
6A ANNUAL CHARGE FACTOR						0.074011
7 INCOME TAX (L5*L7A)						$0.11
7A ANNUAL CHARGE FACTOR						0.029273
8 DEPRECIATION EXP (L5*L8A)						$0.06
8A ANNUAL CHARGE FACTOR						0.015384
9 MAINTENANCE EXP (L5*L9A)						$0.02
9A ANNUAL CHARGE FACTOR						0.005406
10 AD VALOREM TAX (L5*L10A)						$0.03
10A ANNUAL CHARGE FACTOR						0.008566
11 GROSS RECEIPTS TAX ((L6 THRU L10)*L11A)						$0.01
11A ANNUAL CHARGE FACTOR						0.014727
12 ANNUAL COSTS FOR NEW CONDUIT (L6 THRU L11)						$0.51
13 MONTHLY NEW CONDUIT COSTS PER INNER DUCT FT. (L12/12)						$0.04

Trans. 8.9

EXHIBIT 3

AMERITECH VIRTUAL INTERCONNECTION
POWER CONSUMPTION
PER FUSE AMP

RECURRING COSTS

1 VOLTAGE DIRECT CURRENT (VDC) PER FUSE AMP	0.0521
2 ESTIMATED ANNUAL KILOWATT HOURS (KWH)	8,760
3 AVERAGE COST PER KWH	$0.10
4 BASIC DC POWER COST (L1*L2*L3)	$45.62
5 INCREMENTAL AIR CONDITIONER POWER COST	$15.06
6 TOTAL ANNUAL DC POWER COST PER FUSE AMP (L4+L5)	$60.68
7 TOTAL MONTHLY DC POWER COST PER FUSE AMP (L6/12)	$5.06
8 TOTAL COST (L7*1.58 FDC FACTOR) = RATE	$7.99

The costs for the electrical energy used should be based on the fuse size and the number of circuits required. It is my understanding that a typical interconnector will require 2 - 20 Ampere, -48 Volt DC circuits per bay. Using the fuse size rather than the circuit capacity will compensate for the power equipment efficiencies, additional demand charges, as well as, the seasonally adjusted electric company rates. The cost of the electricity for 1 - 20 Ampere circuit would be figured as follows:

20 Amperes X 52.08 VDC = 1.0416KW/20 = 0.0521
1.0416KW X *$0.10 (cost per KWhr) X 24 (Hours per day) X 365 (Days per year) = $912.44 per year per circuit

*This cost may vary by electrical utility.

Therefore, when an interconnector requires 2 - 20 Ampere, -48 Volt circuits their cost would be $1,824.88 (2 X $912.44).

Please let me know if you need any additional information. I will provide you with a sketch which will show how the costs are broken down in order to prepare a space for an interconnector.

Tony Leifel

INTEROFFICE MEMORANDUM

Date: 05-Feb-1993 03:19pm CST
From: MICHAEL R. LANG
LANG,MICHAEL
Dept: Human Resources & Admin
Tel No: (708) 248-6953

TO: Michael D. Silver (SILVER,MICHAEL)

CC: GERALD PADDOCK (PR_U=PRF1210@PR_L=MBTS@MR@ANTHI)

Subject: Collocation-Air conditioning load

Mike

There is a provision for standard electrical power in the "house service" floor space charge. However, it will not increase as cooling loads increase. Therefore, it is logical to tie this added expense to the amount of power requested. The amount of air conditioning and air flow required for the customer's equipment will increase proportionately with the amount of DC circuits provided. The cost per 20 amp circuit is calculated as follows:

1.0416KW (20 amp x 52.08v DC)
x 8760 Hrs/yr
x 0.33 Coefficient of performance
x $.10/Kwh

$301.11 per year per circuit

Mike ÷ 20 = 15.06 ← 1993

VIRTUAL INTERCONNECTION COST SUPPORT
POWER BDFB INFRASTRUCTURE

LARGE OFCS. SECONDARY INFRASTRUCTURE	TOTAL INSTALLED COST
SECONDARY BDFB	$9,575.07
60' OF SECONDARY CABLE RACK W/SUPPORT	$7,846.00
100' OF NO. 1/0 CABLE FOR GROUNDING	$996.00
GROUNDING CABLE RACK	$2,015.00
TOTAL	$20,432.07
(@90% OF LAR. SIZE OFFICES THAT HAVE THIS ARRANGEMENT)	$18,388.86

MEDIUM OFCS. SECONDARY INFRASTRUCTURE	
SECONDARY BDFB	$7,349.07
40' OF SECONDARY CABLE RACK W/SUPPORT	$5,210.00
100' OF NO. 1/0 CABLE FOR GROUNDING	$996.00
GROUNDING CABLE RACK	$2,036.00
TOTAL	$15,591.07
(@10% OF MED. SIZE OFFICES THAT HAVE THIS ARRANGEMENT)	$1,559.11
TOTAL LARGE OFCS	$18,388.86
TOTAL MEDIUM OFCS	$1,559.11
GRAND TOTAL	$19,947.97
MAXIMUM NUMBER OF FUSE POSITIONS IN BDFB IS 200	
GRAND TOTAL /200 FUSE POSITIONS = PER FUSE POSITION	$99.74
FUSE POSITION x 2 =	$199.48
ADDITIONAL 2ND POWER CABLE REQ. FOR EACH FUSE POS. A&B LOAD	$1,021.00
TOTAL NON-RECURING COST	$1,220.48
FDC FACTOR =	1.58
TOTAL NON-RECURRING CHARGE FOR 2-FUSE POSITIONS & ASSOCIATED CABLE	$1,928.36

VIRTUAL INTERCONNECTION COST SUPPORT
POWER BDFB INFRASTRUCTURE
SUMMARY

	TOTAL INSTALLED COST
SECONDARY INFRASTRUCTURE INCLUDES:	
SECONDARY BDFB SECONDARY CABLE RACK W/SUPPORT 100' OF NO. 1/0 CABLE FOR GROUNDING GROUNDING CABLE RACK	
TOTAL COST	$19,947.97
GRAND TOTAL /200 FUSE POSITIONS = PER FUSE POSITION	$99.74
FUSE POSITION x 2 =	$199.48
ADDITIONAL 2ND POWER CABLE REQ. FOR EACH FUSE POS. A&B LOAD	$1,021.00
TOTAL NON-RECURRING COST	$1,220.48
FDC FACTOR =	1.58
TOTAL NON-RECURRING CHARGE FOR 2-FUSE POSITIONS & ASSOCIATED CABLE	$1,928.36

200 CONDUCTOR ELECTRICAL CROSS CONNECTION BLOCK

INVESTMENT	$2,505.02
DEPRECIATION	$271.11
COST OF MONEY	$157.86
INCOME TAX	$66.93
MAINTENANCE	$170.20
AD VALOREM TAX	$17.09
TOTAL ANNUAL COST	$683.18
TOTAL MONTHLY COST	$56.93
OVERHEAD FACTOR	1.58
TOTAL MONTHLY COST PER CROSS-CONNECTION BLOCK	**$89.95**

CROSS CONNECT SERVICE 2-WIRE XCONN.

INVESTMENT	$5.93
DEPRECIATION	$0.64
COST OF MONEY	$0.37
INCOME TAX	$0.16
MAINTENANCE	$0.40
AD VALOREM TAX	$0.04
TOTAL ANNUAL COST	$1.61
TOTAL MONTHLY COST	$0.13
OVERHEAD FACTOR	1.58
TOTAL MONTHLY COST PER 2-WIRE X-CONN	**$0.21**

	AT&T List		Discounted	
	Material	E,F&I	E,F&I	% of Total
MDF	3.3130	3.5193	2.8567	0.235263
MDF Conector Block	4.3860	5.1930	4.3158	0.355427
Tie Cable	2.1053	5.3684	4.9473	0.407437
Power Distribution Frame	0.0263	0.0280	0.0227	0.001873
Total	9.8306	14.1087	12.1426	
SCIS/IN 1.6				
MDF less Protector =	9.8305	14.1087	12.1426	0.691106
Protector =	2.5379	5.9348	5.4272	0.308894
			17.5698	

Line Fill = 97% MDF less Protector = *12.5181* ✓ x 200 = ← $2504 Invest.

Line Fill = 97% MDF with Protector = *18.1132*