

Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

Today's Date: MAY 11 2011

Page Count 194

Part 16

MCI Exhibits
1-48

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 92. Circular Hunting

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:30

Technology: 5ESS

(5E CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	3.22838			No Inv.	No Inv.
D. Minimum per Li	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	3.22838	NA	NA	No Inv.	No Inv.

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TOTAL Investment:

per Group 3.22838

per Office No Inv.

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 92. Circular Hunting

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:30

Technology: DMS-10 (DMS10 :01-26-96 (408.1, 11-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Starte	21.09121			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Li	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	21.09121	NA	NA	No Inv.	No Inv.

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TOTAL Investment:

per Group 21.09121

per Office No Inv.

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 92. Circular Hunting

PAGE 8

Calculation: Avg. E,F&I

Date: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:30

Input #	Value	Description
---------	-------	-------------

IP1	4.30000	BH CH calls per group
-----	---------	-----------------------

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1) ISDN Multiline Hunt Service Cost per Group				
2)	A Description	B Sources	C Incremental	D Total
3)	SCIS Investment	See Tab C, Page 3 (Yellow)	\$ 16.74939	\$ 16.74939
4)	SCIS Spare Capacity	Tab C, Page 2 (Yellow) minus Tab C, Page 3 (Yellow)	\$ -	\$ -
5)	Filled Investment	Line 3 + Line 4	\$ 16.74939	\$ 16.74939
6)	Telco Engineering Factor	Network Engineering	11.5%	11.5%
7)	Total Digital Switch Investment (377c)	Line 5 * (1 + Line 6)	\$ 18.68	\$ 18.68
8)	Annual Charge Factor (377c)	See Tab C, Page 1, Col	0.3255	0.3255
9)	Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 0.51	\$ 0.51
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO				
10)	Land Factor	Factor File (1994)	-	0.0056
11)	Land Investment (20jc)	Line 7 * Line 10	\$ -	\$ 0.10
12)	Annual Charge Factor (20jc)	1997 Annual Charge %, Intrastate Ohio - 1/17/97	\$ 0.2322	0.2322
13)	Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ -	\$ 0.08
14)	Bldg Factor	Factor File (1994)	-	0.1316
15)	Bldg Investment (10jc)	Line 7 * Line 14	\$ -	\$ 2.46
16)	Annual Charge Factor (10jc)	1997 Annual Charge %, Intrastate Ohio - 1/17/97	\$ 0.2937	0.2937
17)	Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ -	\$ 0.04
18)	Total Investment	Line 7 + Line 11 + Line 15	\$ 18.68	\$ 21.24
19)	Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 0.51	\$ 0.57

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 564. ISDN Multiline Hunt Group

Report: Average

Calculation: Avg. E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:30

Technology: SESS

(5E CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Starte	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
B. CCS	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
C. Call	16.74939	No Inv.	No Inv.	No Inv.	No Inv.
D. Minimum per Li	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
E. Hardware	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
F. Memory	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
G. SSP Octet	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
H. Total End Offi	16.74939	No Inv.	No Inv.	NA	NA

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TOTAL Investment: per Terminal 16.74939

per Office NA

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 564. ISDN Multiline Hunt Group

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:30

Technology: 5ESS (5E CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Starte	No Inv.			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	16.74939			No Inv.	No Inv.
D. Minimum per Li	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	16.74939	NA	NA	No Inv.	No Inv.

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TOTAL Investment: per Terminal 16.74939 per Office No Inv.

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SCIS/IN Features 2.1

Feature: 564. ISDN Multiline Hunt Group

Calculation: Avg. E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:30

Input #	Value	Description
IP1	4.30000	BH I-MLHG calls per Terminal
IP2	2.00000	Busy terminals per call

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1) ISDN Circular Hunt Service Cost per Group			
2) Description	B Sources	C Incremental	D Total
3) SCIS Investment	See Tab D, Page 3 (Yellow)	\$ 12,32753	\$ 12,32753
4) SCIS Spare Capacity	Tab D, Page 2 (Yellow) minus Tab D, Page 3 (Yellow)	\$ -	\$ -
5) Filled Investment	Line 3 + Line 4	\$ 12,32753	\$ 12,32753
6) Telco Engineering Factor	Network Engineering	11.5%	11.5%
7) Total Digital Switch Investment (377c)	Line 5 * (1 + Line 6)	\$ 13.75	\$ 13.75
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col	0.3255	0.3255
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 0.37	\$ 0.37
10) Land Factor	Factor File (1994)	-	0.0056
11) Land Investment (20jc)	Line 7 * Line 10	\$ -	\$ 0.08
12) Annual Charge Factor (20jc)	1997 Annual Charge %, Intrastate Ohio - 1/17/97	\$ 0.2322	0.2322
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ -	\$ 0.00
14) Bldg Factor	Factor File (1994)	-	0.1316
15) Bldg Investment (10jc)	Line 7 * Line 14	\$ -	\$ 1.81
16) Annual Charge Factor (10jc)	1997 Annual Charge %, Intrastate Ohio - 1/17/97	\$ 0.2937	0.2937
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ -	\$ 0.04
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 13.75	\$ 15.63
19) Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 0.37	\$ 0.42

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 565. ISDN Circular Hunting

Report: Average

Calculation: Avg. E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:31

Technology: 5ESS

(5E CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
B. CCS	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
C. Call	12.32753	No Inv.	No Inv.	No Inv.	No Inv.
D. Minimum per Li	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
E. Hardware	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
F. Memory	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
G. SSP Octet	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
H. Total End Offi	12.32753	No Inv.	No Inv.	NA	NA

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TOTAL Investment: per Terminal 12.32753

per Office NA

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 565. ISDN Circular Hunting

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: Hunt Feat.

Date: 05/21/96 14:31

Technology: 5ESS

(5E CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	12.32753			No Inv.	No Inv.
D. Minimum per Li	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	12.32753	NA	NA	No Inv.	No Inv.

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TOTAL Investment: per Terminal 12.32753

per Office No Inv.

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 565. ISDN Circular Hunting

PAGE 4

Calculation: Avg. E,F&I
State: CBT Input File: Hunt Feat.

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Input #	Value	Description
IP1	4.30000	BH I-CH calls per Terminal
IP2	2.00000	Busy terminals per call

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Ohio - 377C

SVC LIFE	BOOK DEP'N (A)	POST TAX INC (B)	INC TAX (C)	PROP TAX (D)	TOTAL CAPITAL COSTS (E)=(A..D)	MTCE (F)	MKTG & SALES EXPENSE (G)	DIR ADM EXP (H)	TOTAL DIRECTLY ASSIGNED EXPENSE (I)=(G..H) (J)=(E..I)
12	8.45	6.06	2.48	3.23	20.21	5.29	1.22	4.28	32.55

Source:

L1 - 1997 Annual Charge Development (Acct. 2212), (1/17/97)

L1 (Col. F) - 1996 Annual Charge Development, MTCE, P5, Ln. C239

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**ISDN BASIC RATE INTERFACE
(TELRIC)**

MCI DEPO
EX. NO 22
CDR 11-26-97

ISDN Basic Rate Interface

National ISDN 1

TELRIC Study

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Prepared by: Chuck Catanese

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Appendix

	<u>TAB</u>
Cost Summary	A
Cost Detail/RTU Fees	B
Investments/Charge Factors	C
SCIS Output - ISDN BRI Features	D
SCIS Input Data	E
Feature Descriptions	F

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ISDN BRI Line Termination

	A	B	C	D	E	F	G	H	I
1									
2					Incremental Cost	Joint Cost	Monthly Total		Source
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
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Optional Features

Page 2

	A	B	C	D	E	F	G	H	I	J
1	Feature Description				Incremental Cost					Total
2					Switch Investment	Telco Engineering	Power & Common	Land	Building	Monthly
3					Monthly cost	Monthly cost	Monthly cost	Monthly cost	Monthly cost	(E+F+G+H+I)
4	ISDN BREF									
5	572	ISDN Call Hold			\$ 0.0241	\$ 0.0028	\$ 0.0019	\$ 0.0001	\$ 0.0034	\$ 0.0324
6	573	ISDN Add-on Consultation Hold-Inc. Only			\$ 0.1125	\$ 0.0129	\$ 0.0090	\$ 0.0005	\$ 0.0159	\$ 0.1509
7	577	ISDN Three-Way Calling			\$ 0.1136	\$ 0.0131	\$ 0.0091	\$ 0.0005	\$ 0.0161	\$ 0.1526
8	578	ISDN Call Transfer Individual-All Calls			\$ 0.0525	\$ 0.0080	\$ 0.0042	\$ 0.0002	\$ 0.0074	\$ 0.0706
9	756	ISDN Calling Number Delivery per DN			\$ 0.0509	\$ 0.0088	\$ 0.0047	\$ 0.0002	\$ 0.0072	\$ 0.0682
10	166	ISDN Time and Date Display			\$ 0.0023	\$ 0.0003	\$ 0.0002	\$ 0.0000	\$ 0.0003	\$ 0.0028
11	249	Inspect for ISDN Terminals			\$ 0.0023	\$ 0.0003	\$ 0.0002	\$ 0.0000	\$ 0.0003	\$ 0.0028
12	739	ISDN Feature Display			\$				\$	\$
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	Source for Column "E"				=Feature Investment IE*Charge Factor ISK\$15					
34	Source for Column "F"				=Feature Investment IF*Charge Factor ISK\$15					
35	Source for Column "G"				=Feature Investment IH*Charge Factor ISK\$15					
36	Source for Column "H"				=Feature Investment I I*Charge Factor ISK\$15					
37	Source for Column "I"				=Feature Investment I I*Charge Factor ISK\$15					
38	Source for Column "J"				=Feature Investment I I*Charge Factor ISK\$15					
39	Source for Column "K"				=Feature Investment I I*Charge Factor ISK\$15					
40	Source for Column "L"				=Feature Investment I I*Charge Factor ISK\$15					
41	Source for Column "M"				=Feature Investment I I*Charge Factor ISK\$15					
42	Source for Column "N"				=Feature Investment I I*Charge Factor ISK\$15					
43	Source for Column "O"				=Feature Investment I I*Charge Factor ISK\$15					
44	Source for Column "P"				=Feature Investment I I*Charge Factor ISK\$15					
45	TEST TOTAL-Not Including RTU fees									\$ 0.0000
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Cost Detail

Page 3

	A	B	C	D	E	F	G	H	I	J
1	Feature Description				Incremental Cost		Joint Cost		Total	
2					Switch Investment	Telco Engineering	Power & Common	Land	Building	Monthly
3					Monthly cost	Monthly cost	Monthly cost	Monthly cost	Monthly cost	(E+F+G+H+I)
4	* ISDN BRI Features									
5	203	Packet Switching IAO Perm B Channel			\$ 0.1705	\$ 0.0196	\$ 0.0137	\$ 0.0008	\$ 0.0241	\$ 0.2287
6	204	Packet Switching IEO Perm B Chan			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	205	Packet Switching IAO D Channel			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	206	Packet Switching IEO D Channel			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	569	Single Line ISDN Term. (incremental to POTS)			\$ 11.0014	\$ 1.2652	\$ 0.8844	\$ 0.0519	\$ 1.5568	\$ 14.7596
10	569	Single Line ISDN Circuit Switched Voice			\$ 0.3259	\$ 0.0000	\$ 0.0000	\$ 0.0015	\$ 0.0481	\$ 0.4372
11	572	ISDN Call Hold			\$ 0.0000	\$ 0.0000	\$ 0.0019	\$ 0.0001	\$ 0.0034	\$ 0.0034
12	573	ISDN Add-on Consultation Hold-Inc. Only			\$ 0.1125	\$ 0.0129	\$ 0.0000	\$ 0.0005	\$ 0.0159	\$ 0.1508
13	577	ISDN Three-Way Calling			\$ 0.1136	\$ 0.0000	\$ 0.0000	\$ 0.0005	\$ 0.0161	\$ 0.1524
14	578	ISDN Call Transfer Individual-All Calls			\$ 0.0509	\$ 0.0000	\$ 0.0000	\$ 0.0002	\$ 0.0074	\$ 0.0705
15	756	ISDN Calling Number Delivery, per DN			\$ 0.0002	\$ 0.0003	\$ 0.0000	\$ 0.0000	\$ 0.0002	\$ 0.0007
16	166	ISDN Time and Date Display			\$ 0.0002	\$ 0.0003	\$ 0.0000	\$ 0.0000	\$ 0.0003	\$ 0.0007
17	249	Inspect for ISDN Terminals			\$ 0.0023	\$ 0.0003	\$ 0.0000	\$ 0.0000	\$ 0.0003	\$ 0.0031
18	739	ISDN Feature Display			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19										
20										
21		MDF/Protector								
22		Cost associated with loop only			\$ 0.2718	\$ 0.0313	\$ 0.0216	\$ 0.0013	\$ 0.0365	\$ 0.3625
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33		Source for Column "E"			*Feature Investment/E*Charge Factor *\$K\$15					
34										
35		Source for Column "F"			*Feature Investment/F*Charge Factor *\$K\$15					
36										
37		Source for Column "G"			*Feature Investment/G*Charge Factor *\$K\$15					
38										
39		Source for Column "H"			*Feature Investment/H*Charge Factor *\$C\$4*Charge Factor *\$K\$19					
40										
41		Source for Column "I"			*Feature Investment/I*Charge Factor *\$C\$3*Charge Factor *\$K\$17					
42										
43										
44										
45		TEST TOTAL-Not including RTU fees								\$ 16.2707
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Right-To-Use Fees

	A	B	C	D	E	F
1	National NI-1 RTU Costs for 5ESS - Assuming 50% Breakage					
2						
3		Year				
4		1996	1997	1998	1999	2000
5						*note 1
6	Business ISDN Demand	3383	6001	8113	10226	12591
7	(1996 Eng.Planning Forecast)					
8	Number of 5E end offices	27	27	27	27	27
9	(Engineering)					
10	Avg. ISDN lines per end	125.30	222.19	300.48	378.74	466.33
11	office (L6 / L8)					
12						
13	PV Factor, 10.3% interest		0.96618	0.821957	0.745201	0.675613
14						
15	PV ISDN demand	125.30	246.98	282.24		315.06
16						
17	Sum of PV factors, (B13 - F13)					4.149389
18						
19	Sum of PV ISDN demand, (B15 - F15)					1171.0822
20						
21	Levelized ISDN demand per end office, (F19 / F17)					282.23
22						
23	National ISDN 1 feature pack cost, per block of 256 lines					\$ 195.00
24	(Kathy Himes, Engineering)					
25						
26	Levelized Feature breakage cost per end office, (256 x .5 x \$195)					\$ 24,960.00
27	Feature breakage per BRI, (F26 / F21)					\$ 88.44
28						
29	Total RTU fee per National ISDN 1 BRI, (\$195 + feature breakage cost per BRI)					\$ 283.44
30						
31	Add GRT, (F29 x 1.0499)					\$ 297.58
32						
33	ISDN Monthly Cost per BRI, (F29 x PV annuity factor)					
34	{PV=EXCEL formula PV(10.3%/12,60,-1)}					
35	10.3% Discounted Cost of Money per S. Browning, Service Costs, 1/17/97					
36						
37	Note 1					
38	Year 2000 demand projected by using the Excel forecast function, =FORECAST(F4,B6:E6,B4:E4)					
39						
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DESTROY BY SHREDDING

Feature Investment

Page 5

A	B	C	D	E	F	G	H	I	J	K
1	Feature Description			Investment					Source TAB D	
2				Average	Telco Eng.	Sub Total	Power & Common	Total	Switch Investment	
3					11.5%		377c 7.21%		SCIS/N Avg. Run	
4	ISDN BRI Features			\$	(E x .115)	(E + F)	(G x .0721)	(G + H)	Page	
5	203	Packet Switching IAO Perm B Channel		6.46442	0.7434083	7.2078283	0.5197	7.7275	1	
6	204	Packet Switching IEO Perm B Chan		0	0	0	0.0000	0.0000	2	
7	205	Packet Switching IAO D Channel		0	0	0	0.0000	0.0000	3	
8	206	Packet Switching IEO D Channel		0	0	0	0.0000	0.0000	4	
9	569	Single Line ISDN Term. (incremental to POTS)		417.11318	47.9680157	465.0811957	33.5324	498.6135	5	line D
10	569	Single Line ISDN Circuit Switched Voice		12.35457	1.42077555	13.77534555	0.995	14.7685	5	line C
11	572	ISDN Call Hold		0.91553	0.10528595	1.02081595	0.0736	1.0944	6	
12	573	ISDN Add-on Consultation Hold-Inc. Only		4.26428	0.4903922	4.7546722	0.3428	5.0975	7	
13	577	ISDN Three-Way Calling		4.30632	0.4952859	4.8015488	0.3428	5.1443	8	
14	578	ISDN Call Transfer Individual-All Calls		1.99152	0.2290248	2.2205448	0.1601	2.3806	9	
15	756	ISDN Calling Number Delivery, per DN		1.92814	0.2217381	2.1498781	0.1538	2.3037	10	
16	166	ISDN Time and Date Display		0.08305	0.0093455	0.0923955	0.0067	0.0993	11	
17	249	Inspect for ISDN Terminals		0.08897	0.01023155	0.09920155	0.0073	0.1064	12	
18	739	ISDN Feature Display		0	0	0	0.0000	0.0000	13	
19										
20										
21										
22		MDF/Protector								
23		Cost associated with loop only		10.30495	1.18506925	11.49001925	0.8284	12.3184	Bellcore Special Study	
24										
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50	Information Coordinator at (397-7562).									
51	DESTROY BY SHREDDING									

Charge Factor

	A	B	C	D	E	F	G	H	I	J	K
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35											

Sources

1994 Factor File
1994 Factor File

0.1316
0.0058

Building Factor
Land Factor

Ohio

PLANT ACCT	BOOK DEPN	POST TAX INC	INC TAX	PROP TAX	TOTAL CAPITAL COSTS (B+C+D+E)	MTCE	UN- BUNDLE EXPENSE	DIRECT ADMIN EXPENSE	TOTAL DIRECT ASSIGNED COSTS + GRT (F+G+H+I)*1.0499	MCF Monthly Charge Factor J/12/100
377c	8.45	6.06	2.48	3.23	20.21	11.52	0.51	4.14	31.65	0.02638
10jc-Bldg	5.76	5.22	4.05	0.64	15.66	6.81	0.51	4.14	28.47	0.02373
20jc-Land	0.00	11.50	4.42	0.69	16.62	0.00	0.51	4.14	22.32	0.01860

Sources:

L15, 17 & 19 - 1996 Annual Charge Percentages
L15 (Col. G) - 1996 Annual Charge Percentages, MTCE, RTU cost removed

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DESTROY BY SHREDDING

CINCINNATI BELL IPHONE
SCIS/IN Feature 2.1

Report: Average

Calculation: Avg. Z-F21
Input State: CBY
File: natisch2
Date: 01/30/97 16:00

Technology: BESS (5E NIS0N:05-22-96 (5E9-2, 02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	0.00000		
B. CCS	0.00000	No Inv.	No Inv.		
C. Call	0.00000	No Inv.	No Inv.		
D. Minimum per Line	6.66442	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	6.66442			NA	NA
TOTAL Investment:	6.66442			per Office NA	

TOTAL Investment:

per Terminal: 6.46442

ПРОИЗВЕДИТЕЛЬНО

per Office: NA

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CINCINNATI BELL EPHONE
SCIS/IN Feat. 2.1
Feature: 204. Packet Switching 150 Pems 8 Chan

Report: Average

Calculation: Avg. E.F.I
State: CBT
Input File: netledn2
Date: 01/30/97 16:00
Technology: SESS (SE NISDN:05-22-96 (SEP 2, 92-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	0.00000		
B. CCS	0.00000	No Inv.	No Inv.		
C. Call	0.00000	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	0.00000			NA	NA
TOTAL Investment:	per Terminal 0.00000			per Office NA	

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CINCINNATI BELL 1 HOME
SCIS/IN Features 2.1
Features: 205. Packet Switching 140 D Channel

Report: Average

Calculation: Avg, 5, 21
State: CBT
Technology: 5ESS (SE NISN:05-22-96 (SEP 2, 02 03))
Date: 01/30/97 16:00
Input Files: nati2

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	0.00000	No Inv.	No Inv.		
C. Call	0.00000	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office				NA	NA
TOTAL Investment:		per Terminal 0.00000	per Office NA		

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CINCINNATI BELL

SCIS/IN Featu... 2...

Feature: 206. Packet Switching IEO D Channel

Report: Average

Calculation: Avg. E, F, I!

State: CA Input File: natishn2

Date: 01/30/97 16:00

Technology: SESS (SE NISDN:05-22-96 (SE9.2.02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	0.00000		
B. CCS	0.00000	No Inv.	No Inv.		
C. Call	0.00000	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	0.00000			NA	NA
TOTAL Investment:	per Terminal 0.00000			per Office NA	

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CINCINNATI BELL PHONE
SCIS/IN Feature 2.1
Feature: 573, ISDN Add-on Consultation Hold-Inc. Only

Report: Average

Calculation: Avg. F, Fall
State: CBT

Input File: natishn2

Date: 01/30/97 16:01

Technology: 5ESS (SE NISDN:05-22-96 (SEP.2, 02-95))

Investment Category

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	0.01529		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	0.14634	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	4.10265	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	4.24899	No Inv.			NA
TOTAL Investment:	per Terminal 4.26428			per Office NA	

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CINCINNATI BELL T. HOME
 SCIS/IN Features: 4.1
 Feature: 577. ISDN Three-Way Calling

Report: Average

Calculations: Avg. 2.781
 State: CBT
 Input File: natiedn2
 Date: 01/30/97 16:01
 Technology: 5ESS (SE NISDN:05-22-96 (559 2, 07 05 1))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	0.05733		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	0.14634	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	4.10265	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	4.24899	No Inv.	0.05733		NA
TOTAL Investment:		per Terminal	4.30632	per Office	NA

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CINCINNATI BELL .PHONE
SCIS/IN Features 2.1
Feature: 578. ISDN Call Transfer Individual-All Calls

Report: Average

Calculations: Avg. 5, F&I
State: CBT

Input File: natish2

Date: 01/30/97 16:01

Technology: 5ESS (SE NISDN:05-22-96 (528 P 02-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	0.15289		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	1.15486	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	0.68378	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	1.83963	No Inv.	0.15289		
TOTAL Investment:		per Terminal 1.99152		per Office NA	NA

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CINCINNATI BELL 7 NONE
SCIS/IN Features 2.1
Feature: 756. ISDN Calling Number Delivery

Report: Average

Calculation: Avg. E, F&I
State: CBT
Input File: natiscn2
Date: 01/30/97 16:01
Technology: 5ESS (SE NISDN:05-22-96 (SE9.2, 02-95))

Investment Category	Variable	Direct Fixed per DN	Shared Fixed per DN	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	1.92814	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	1.92814	No Inv.	No Inv.		NA
TOTAL Investment:	per DN 1.92814			per Office NA	

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CINCINNATI BELL 1 NONE
SCIS/IN Features 2.1

Feature: 166. ISDN Time and Date Display

Report: Average

Calculation: Avg. E. F&I
State: CBT
Technology: 5ESS (SE NISDN:05-22-96 (SEP-2, 03-96))
Date: 01/30/97 16:00
Input File: natiscn2

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	0.08305				
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	0.08305	No Inv.	No Inv.	NA	NA
TOTAL Investment:	per Terminal 0.08305			per Office NA	

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CINCINNATI BELL EPHONE
SCIS/IN Feat. 4 2.1
Feature: 249. Inspect for ISDN Terminals

Report: Average

Calculations: Avg. E, F&I
State: CBT
Input File: natiesch2
Date: 01/30/97 16:01
Technology: SESS (SE NISDN:05-22-96 (SEP. 2, 92-95))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	0.08897	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	0.08897	No Inv.	No Inv.	NA	NA
TOTAL Investment:	per Terminal 0.08897			per Office NA	

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CINCINNATI BELL PHONE
SCIS/IN Features 2.1
Feature: 739. ISDN Feature Display

Report: Average

Calculation: Avg. E.fsl
State: CBT Input File: natisdn2 Date: 01/30/97 16:01
Technology: Sess (SE NISDN:05-22-96 (SEP 2, 1995))

Investment Category	Variable	Direct Fixed per Terminal	Shared Fixed per Terminal	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	No Inv.	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	No Inv.	No Inv.	No Inv.	NA	NA
TOTAL Investment:	per Terminal	No Inv.		per Office	NA

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CINCINNATI BELL EPHONE
SCIS/IN Features 2.1
Feature: 166. ISDN Time and Date Display

Calculation: E.F&I
State: CBT
Input File: natisch2
Date: 01/30/97 15:59

Input #	Value	Description
IP1	0.10000	SH activations per minute

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CINCINNATI BELL 7 OHONE
SCIS/IN Festu 2.1
Feature: 203. Packet Switching IAO Per B Channel

Calculation: E, F, I
State: CBT
Input File: natidn2
Date: 01/30/97 15:59

Input #	Value	Description
IP1	0.00000	BH IAO PPS-IAO calls per Terminal
IP2	0.00000	BH IAO PPS per Terminal
IP3	0.00000	BH IAO Inter SW PPS per Terminal
IP4	0.00000	BH IAO Inter SW calls per Terminal
IP5	1.00000	Terminals per channel

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CINCINNATI BELL PHONE
SCIS/IN Features 2.1
Feature: 204. Packet Switching IEO Perm & Chan

Calculation: E, F&I
State: CBT
Input File: natish2
Date: 01/30/97 15:59

Input #	Value	Description
IP1	0.00000	BH IEO Otg pps calls per Terminal
IP2	0.00000	BH IEO PPS per Terminal
IP3	0.00000	BH x.75 calls per Terminal
IP4	0.00000	BH IEO Single IP Otg calls per Terminal
IP5	0.00000	BH IEO Multiple IP Otg calls per Terminal
IP6	0.00000	BH Single IP Inc. calls per Terminal
IP7	0.00000	BH Multiple IP Inc. calls per Terminal

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CINCINNATI BELL 'PHONE
SCIS/IN Feature 2.1
Feature: 205. Packet Switching IAO D Channel

Calculations: E, FBI
State: CBT
Input File: natiedn2
Date: 01/30/97 15:59

Input #	Value	Description
IP1	0.00000	BH IAO PS-D Calls per Terminal
IP2	0.00000	BH IAO PPS per Terminal
IP3	0.00000	BH IAO Inter SM per Terminal
IP4	0.00000	BH IAO Inter SM per Terminal

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CINCINNATI BELL PHONE

SCIS/IN Features 2.1

Feature: 206. Packet Switching IEO D Channel

Calculations: E, F&I

State: CBT

Input file: netiedh2

Date: 01/30/97 15:59

Input #	Value	Description
IP1	0.00000	BH IEO Otg PS-0 calls per Terminal
IP2	0.00000	BH IEO PPS per Terminal
IP3	0.00000	BH IEO X.75 calls per Terminal
IP4	0.00000	BH IEO Single calls per Terminal
IP5	0.00000	BH IEO Multiple calls per Terminal
IP6	0.00000	BH IEO Single Inc calls per Terminal
IP7	0.00000	BH IEO Multiple Inc calls per Terminal

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CINCINNATI BELL PHONE
SCIS/IM Features 2.1
Features: 249. Inspect for ISDN Terminals

Calculation: E, F&I
State: CBT
Input File: natidn2
Date: 01/30/97 15:59

CONFIDENTIAL		
Input #	Value	Description
IP1	0.10000	BH activations per terminal
IP2	1.00000	Inspections per activation

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DO NOT DUPLICATE - DESTROY BY SCHEDULING

CINCINNATI BELL 1 HOME
SCIS/IM Features 2.1
Feature: 569. Single Line ISDN

Calculation: E,F&J State: CBT Input File: natish2 Date: 01/30/97 15:59

Input #	Value	Description
IP1	0.50000	BH ISDN-ISDN Intraoffice calls per BRI
IP2	0.50000	BH ISDN-POTS Intraoffice calls per BRI
IP3	0.50000	BH POTS-ISDN Intraoffice calls per BRI
IP4	1.50000	BH ISDN-Trunk calls per BRI
IP5	1.00000	BH Trunk-ISDN calls per BRI
IP6	4.00000	BH originating and terminating calls per BRI
IP7	1.00000	Include difference in Line Term: No=0; Yes=1

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CINCINNATI BELL 'PHONE
SCIS/IN Feature-- 2.1
Feature: 572. ISDN Call Hold

Calculation: E,F&I
State: CAT

Input File: natisdn2

Date: 01/30/97 15:59

Input # Value Description

IP1 0.20000 BH 1-CH calls per Terminal

IP2 0.20000 BH Retrieved calls per Terminal

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CINCINNATI BELL EPHONE

SCIS/IM Feat. 2.1

Feature: 573. ISDN Add-on Consultation Hold-Inc. Only

Calculation: E,F&I

State: CBT Input File: natish2

Date: 01/30/97 15:59

Input # Value Description

IP1 0.02000 BH 1-ACH-10 calls per month

IP2 600.00000 HT (sec) per Call

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CINCINNATI BELL PHONE

SCIS/IN Feature 2.1

Feature: 577. ISDN Three-Day Calling

Calculations: E, P&I
State: COT

Input File: natiscr2

Date: 01/30/97 15:59

Input # Value Description

IP1 0.02000 BH 1-34C calls per terminal
IP2 600.00000 NT (sec) per Call

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CINCINNATI BELL HOME
SCIS/IN Features 2.1
Feature: 578. ISDN Call Transfer Individual-All Calls

Calculation: E, F41 Input File: natidn2 Date: 01/30/97 15:59
State: CBT

Input # Value Description

IP1 0.20000 BH I-CTAC call

IP2 10.00000 MT (sec) per Call

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100-16-1111

CINCINNATI BELL PHONE
SCIS/IN Feature -- 2.1
Feature: 739. ISDN Feature Display

Calculation: E,FBI
State: CBY

Input File: netisch2

Date: 01/30/97 16:00

NO INPUTS REQUIRED

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CINCINNATI BELL 1 HOME
SCIS/IN Features 2.1
Features: 756. ISDN Calling Number Delivery

Calculations: E, FBI
State: CBT

Input File: natish2

Date: 01/30/97 16:00

Input # Value Description

1P1 2.00000 BH 1-CND calls per DN

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CINCINNATI BELL T WOME
SCIS/IN Feature- 2.1

Feature: 166, ISDN Time and Date Display

Calculation: E.F&I
State: CBT

Input File: natich2

Date: 01/30/97 16:01

Description:

Time and Date Display is a subscription feature for ISDN attendants. It provides the time and date to the ISDN station set users. The switch provides the time and date to the ISDN station set users.

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CINCINNATI BELL PHONE
SCIS/IN Feature 2.1
Feature: 203. Packet Switching 100 Pema & Channel

Calculation: E, FBI
State: CBT
Input File: natish2
Date: 01/30/97 16:02

Description:

B-Channel Packet-Switching provides X.25 packet switching service over the B-channel, using Layer 2 LAPB protocol. This B-channel may be either 50kb or 64kb connection. A primary use is to give packet-switching service access to a host computer. Many user sessions with the host computer can be carried on a single B-channel. Up to 127 simultaneous calls are allowed.

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CINCINNATI BELL T WONE
SCIS/IN Feature 2.1
Feature: 204. Packet Switching IEO Perm B Chan

Calculation: E, FBI
State: CBT
Input File: natisd2
Date: 01/30/97 16:02

Description:

This feature provides Interoffice (IEO) packet switching originating/terminating on Permanent Packet channels of the BRI. Interoffice packet switching uses X.75 trunk groups and optionally may use proprietary protocol trunk groups (single trunk group or multiple trunk groups in the SE switch. Note that only one type of protocol trunk group can be used for each (single or multiple.) The cost analyst needs to review existing packet tariffs to determine if these investments are already included in their tariffs. Refer to feature 203 for Interoffice P2B packet switching.

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CINCINNATI BELL 7 HOME
SCIS/IN Features 2.1
Feature 205 - Packet Switching IAD 2 Channel

Calculations: E/FBI
State: CBT

Input files noticed2

Date: 01/30/97 16:02

Descriptions:

D-Channel packet switching allows ISDN users to originate and receive X.25 packet switched data calls on the 16 kb/s D-Channel. Multiple data calls can be active simultaneously on a single D-Channel. This is a new feature for the 1400 investments.

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CINCINNATI BELL TE IOWE
SCIS/IN Features --1
Feature: 206. Packet Switching IEO D Channel

Calculation: E, FBI
State: CBT
Input File: natich2
Date: 01/30/97 16:02

Description:

This feature allows packet data calls to be carried outside of the originating office via x.75 trunks. The SE switch also has internal protocol (proprietary trunks) in a single trunk group or multiple trunk groups. The cost analyst should review existing packet tariffs to determine if the investments included in this feature have already been included in the existing tariffs. Note 144 188. Intraoffice D-Channel packet switching, see feature 205. Prior to release to public the BRT investment.

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CINCINNATI BELL TEL. CO.
SCIS/IN Features --1
Feature: 249. Inspect for ISDN Terminals

Calculations: E, F4
State: CBT

Input File: natidn2

Date: 01/30/97 16:02

Description:

The Inspect for ISDN Terminals feature retrieves and displays call related information any call appearance that has a call associated with it.

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CINCINNATI BELL TEL/ NE
SCIS/IN Features
Feature: 569. Single Line ISDN

Calculation: E, F21
State: C8T

Input file: natish2

Date: 01/30/97 16:02

Description:

This feature identifies the investments for circuit switched voice on a BRI incremental to a residence or business line and optional. Includes the additional cost of a BRI over a non-ISDN line. Includes the residence/business line has circuit switched voice. Refer to the appropriate features for investments.

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CINCINNATI BELL TI NONE
SCIS/IN Features 2.1
Feature: 572. ISDN Call Hold

Calculation: E, F&I

State: C87 Input File: natiscr2

Date: 01/30/97 16:02

Description:

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This feature allows the user to place a call on hold by pressing the function button. Any station set with the call hold feature can pick up the call by pressing the call hold button. Cincinnati Bell can pick up the call by pressing the call hold button. Cincinnati Bell can pick up the call by pressing the call hold button. Cincinnati Bell can pick up the call by pressing the call hold button.

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CINCINNATI BELL TEL
SCIS/IN Features 4.1
Feature: 573 (SDN Add-on Consultation Hold-Ing. Only

Calculation: E, F21

State: CBT Input file: natiscn2

Date: 01/30/97 16:02

Description:

This feature is a business group variation of three way calling and is restricted to incoming calls to the business group via 000. CBT add-on feature allows "consultation hold" where the incoming call is retained while a private consultation between the called and the caller takes place. While a subsequent called party switch-hook. This feature holds the caller and the called party in effect. **CONFIDENTIAL**

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CINCINNATI BELL TE ONE
SCIS/IN Features 4.1
Feature: 577. ISDN Three-Way Calling

Calculation: E, F&I
State: COT

Input File: natidch2

Date: 01/30/97 16:02

Description:

This feature allows a terminal in the talking state to add a third party to the call without operator assistance. To add a third party, the customer flashes the switch hook once to place the other party on hold, receives recall tone, dials the third party's telephone number, and then flashes the switch hook again to establish the three-way connection.

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CINCINNATI BELL PHONE
SCIS/IN Features 2.1
Feature: 379. ISDN Call Transfer Individual-All Calls

Calculation: E, FBI
State: CBT
Input File: natledn2
Date: 01/30/97 16:02

Description:

This feature allows an ISDN business group user to transfer any established call to another station. The station user makes this transfer by hanging up. This feature is a modification of 3-way calling whereby hanging up on an established three-way call does not result in a call between the three parties being

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CINCINNATI BELL : PHONE
SCIS/IN Features 2.1
Feature: 739. ISDN Feature Display

Calculation: E, F, G
State: CBT
Input File: natidn2
Date: 01/30/97 16:02

Description:

Feature Display provides the user of a terminal with the 48-character LCD with visual feedback on user-entered data and incoming information during the use of other ISDN features. Part of ISDN Basic Access for Bell. Investments associated with the display are included in the appropriate features for SESS.

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CINCINNATI BELL 7 HOME
SCIS/IN Features 2.1

Feature 756. ISDN Calling Number Delivery

Calculations: 5.351

State: CBT

Input: Files: natlsdr2

Date: 01/30/97 16:02

Description:

Enables the ISDN subscriber called party to receive the calling party's DN via D-channel signaling. (Date and time are also provided.) For incoming calls where the calling party's DN cannot be determined, the "DN" and the date and time of the call are provided. For outgoing calls, the calling party's DN is marked as private, the letter "R" and the time of the call are provided.

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ISDN NONRECURRING OPTIONAL FEATURES

MCI Teleco.
EX. NO. 23

CDR 11-26-97

ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS

Service	Initial Installation Cost Per Line	Subsequent Installation Cost Per Line
1 Install B-Channel Circuit Switched Voice or Data with Flat Rate Service	\$19.12	N/A
2 Install B-Channel Circuit Switched Voice or Data with Measured Rate Service	\$19.12	N/A
3 Install B-Channel Packet Switched Service	\$19.12	N/A
4 Install D-Channel Packet Switched Service	\$19.12	N/A
5 Install Circuit Switched Hunting Feature	\$3.82	\$7.05
6 Install Circuit Switched Additional Call References	\$3.82	\$7.05
7 Install Circuit Switched Six Party Conference Calling	\$3.82	\$7.05
8 Install Circuit Switched Call Pickup	\$3.82	\$7.05
9 Install Circuit Switched Electronic Key Telephone Service	\$7.05	\$7.05
10 Install Circuit Switched Additional Directory Number	\$7.05	\$10.28
11 Install Packet Switched X.25 Hunting	\$7.05	\$10.28
12 Install Packet Switched Closed User Group Member	\$7.05	\$10.28
13 Install Packet Switched Additional Logical Channels	\$7.05	\$10.28
14 Install Packet Switched Permanent Virtual Circuit	\$7.05	\$10.28
15 Install Packet Switched Additional Directory Number	\$7.05	\$10.28
16 Add a Terminal to a Line or Change the Configuration of a Feature or Terminal	\$10.28	N/A
17 Customize Terminal Button Configuration	\$10.28	N/A

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ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS

Service	Initial Installation Cost Per Line	Subsequent Installation Cost Per Line
1 Install B-Channel Circuit Switched Voice or Data with Flat Rate Service	\$19.12	N/A
2 Install B-Channel Circuit Switched Voice or Data with Measured Rate Service	\$19.12	N/A
3 Install B-Channel Packet Switched Service	\$19.12	N/A
4 Install D-Channel Packet Switched Service	\$19.12	N/A
5 Install Circuit Switched Hunting Feature	\$3.82	\$7.05
6 Install Circuit Switched Additional Call References	\$3.82	\$7.05
7 Install Circuit Switched Six Party Conference Calling	\$3.82	\$7.05
8 Install Circuit Switched Call Pickup	\$3.82	\$7.05
9 Install Circuit Switched Electronic Key Telephone Service	\$7.05	\$7.05
10 Install Circuit Switched Additional Directory Number	\$7.05	\$10.28
11 Install Packet Switched X.25 Hunting	\$7.05	\$10.28
12 Install Packet Switched Closed User Group Member	\$7.05	\$10.28
13 Install Packet Switched Additional Logical Channels	\$7.05	\$10.28
14 Install Packet Switched Permanent Virtual Circuit	\$7.05	\$10.28
15 Install Packet Switched Additional Directory Number	\$7.05	\$10.28
16 Add a Terminal to a Line or Change the Configuration of a Feature or Terminal	\$10.28	N/A
17 Customize Terminal Button Configuration	\$10.28	N/A

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ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS

INSTALL B-CHANNEL CIRCUIT SWITCHED VOICE AND DATA WITH FLAT RATE SERVICE
INSTALL B-CHANNEL CIRCUIT SWITCHED VOICE AND DATA WITH MEASURED RATE SERVICE
INSTALL B-CHANNEL PACKET SWITCHED DATA
INSTALL D-CHANNEL PACKET SWITCHED DATA

AREA A	JOB LEVEL B	RATE PER HOUR C	RATE PER MIN D=C/60	FLOWTHRU WEIGHTING E	WEIGHTED INITIAL MIN F	WEIGHTED SUBSEQ INSTALL MIN G	INITIAL INSTALL COST H=D*E*F	SUBSEQ INSTALL COST I=D*E*G	WEIGHTED MINUTES SOURCE J
1 CUS SALES - RSC	251	\$35.86	0.597666						
2 CUS SALES - BSC	251	\$35.86	0.597666						
3 BUS SALES (COIN)	241	\$38.71	0.645187						
4 BUS SALES	241	\$38.71	0.645187						
5 CTO ACCESS SVC CTR	241	\$38.71	0.645187	1.00	25.00		\$16.13	N/A	C1,L1-4
6 CUS SALES - LAC	291	\$29.79	0.496572						
7	251	\$35.86	0.597666						
8 CUS SALES - RCMAC	251	\$35.86	0.597666						
9 NTWK FIELD MAINT - C.O.	414/415	\$43.21	0.720118	1.00	5.00		\$2.99	N/A	C2,L1-4
10 NTWK ENGR & CONSTRU	231	\$39.65	0.660850						
11	320	\$51.49	0.858233						
12 CUS SALES/INSTALL	210	\$50.94	0.848977						
13 CTO INSTALLATION	514	\$48.24	0.803948						
14 CTO CKT DESIGN	471	\$33.61	0.560112						
15 NTWK FIELD MAINT - COIN	520	\$38.94	0.648925						
16 CUS SALES - SO COMPL	291	\$29.79	0.496572						
17 CTO - SO COMPLETION	291	\$29.79	0.496572						
18 BUS SALES - COIN AE	6H	\$47.23	0.787217						
19 BUS SALES - AE	6H	\$47.23	0.787217						
20									
TOTAL PROVIDED TO PU									
N/A									

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TOTAL PROVIDED TO PU
N/A

ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS

INSTALL CIRCUIT SWITCHED HUNTING FEATURE
INSTALL CIRCUIT SWITCHED ADDITIONAL CALL REFERENCES FEATURE
INSTALL CIRCUIT SWITCHED SIX PARTY CONFERENCE CALLING FEATURE
INSTALL CIRCUIT SWITCHED CALL PICKUP FEATURE

AREA	JOB LEVEL	RATE PER HOUR	RATE PER MIN	FLOWTHRU WEIGHTING	WEIGHTED INITIAL INSTALL MIN	WEIGHTED SUBSEQ INSTALL MIN	INITIAL INSTALL COST	SUBSEQ INSTALL COST	WEIGHTED MINUTES SOURCE
A	B	C	D=C/60	E	F	G	H=D*E*F	I=D*E*G	J
1 CUS SALES - RSC	251	\$35.86	0.597666						
2 CUS SALES - BSC	251	\$35.86	0.597666						
3 BUS SALES (COIN)	241	\$38.71	0.645187						
4 BUS SALES	241	\$38.71	0.645187						
5 CTO ACCESS SVC CTR	241	\$38.71	0.645187	1.00	5.00	10.00	\$3.23	\$6.45	C1,L5-8
6 CUS SALES - LAC	291	\$29.79	0.496572						
7	251	\$35.86	0.597666						
8 CUS SALES - RCMAC	251	\$35.86	0.597666						
9 NTWK FIELD MAINT - C.O.	414/415	\$43.21	0.720118	1.00	1.00	1.00	\$0.60	\$0.60	C2,L5-8
10 NTWK ENGR & CONSTRUC	231	\$39.65	0.660850						
11	320	\$51.49	0.858233						
12 CUS SALES/INSTALL	210	\$50.94	0.848977						
13 CTO INSTALLATION	514	\$48.24	0.803948						
14 CTO CKT DESIGN	471	\$33.61	0.560112						
15 NTWK FIELD MAINT - COIN	520	\$38.94	0.648925						
16 CUS SALES - SO COMPL	291	\$29.79	0.496572						
17 CTO - SO COMPLETION	291	\$29.79	0.496572						
18 BUS SALES - COIN AE	6H	\$47.23	0.787217						
19 BUS SALES - AE	6H	\$47.23	0.787217						
20									

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TOTAL \$3.82
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ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS

INSTALL CIRCUIT SWITCHED ELECTRONIC KEY TELEPHONE SERVICE FEATURE

AREA A	JOB LEVEL B	RATE PER HOUR C	RATE PER MIN D=C/60	FLOWTHRU WEIGHTING E	WEIGHTED INITIAL INSTALL MIN F	WEIGHTED SUBSEQ INSTALL MIN G	INITIAL INSTALL COST H=D*E*F	SUBSEQ INSTALL COST I=D*E*G	WEIGHTED MINUTES SOURCE J
1 CUS SALES - RSC	251	\$35.86	0.597666						
2 CUS SALES - BSC	251	\$35.86	0.597666						
3 BUS SALES (COIN)	241	\$38.71	0.645187						
4 BUS SALES	241	\$38.71	0.645187						
5 CTO ACCESS SVC CTR	241	\$38.71	0.645187	1.00	10.00	10.00	\$6.45	\$6.45	C1,L9
6 CUS SALES - LAC	291	\$29.79	0.496572						
7	251	\$35.86	0.597666						
8 CUS SALES - RCMAC	251	\$35.86	0.597666						
9 NTWK FIELD MAINT - C.O.	414/415	\$43.21	0.720118	1.00	1.00	1.00	\$0.60	\$0.60	C2,L9
10 NTWK ENGR & CONSTRUC	231	\$39.65	0.660850						
11	320	\$51.49	0.858233						
12 CUS SALES/INSTALL	210	\$50.94	0.848977						
13 CTO INSTALLATION	514	\$48.24	0.803948						
14 CTO CKT DESIGN	471	\$33.61	0.560112						
15 NTWK FIELD MAINT - COIN	520	\$38.94	0.648925						
16 CUS SALES - SO COMPL	291	\$29.79	0.496572						
17 CTO - SO COMPLETION	291	\$29.79	0.496572						
18 BUS SALES - COIN AE	6H	\$47.23	0.787217						
19 BUS SALES - AE	6H	\$47.23	0.787217						
20									

TOTAL

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\$7.05
PROVIDED TO PUCO

**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

INSTALL CIRCUIT SWITCHED ADDITIONAL DIRECTORY NUMBER FEATURE
 INSTALL PACKET SWITCHED X.25 HUNTING FEATURE
 INSTALL PACKET SWITCHED CLOSED USER GROUP MEMBER FEATURE
 INSTALL PACKET SWITCHED ADDITIONAL LOGICAL CHANNELS FEATURE
 INSTALL PACKET SWITCHED PERMANENT VIRTUAL CIRCUIT FEATURE
 INSTALL PACKET SWITCHED ADDITIONAL DIRECTORY NUMBER FEATURE

AREA A	JOB LEVEL B	RATE PER HOUR C	RATE PER MIN D=C/60	FLOWTHRU WEIGHTING E	WEIGHTED INITIAL INSTALL MIN F	WEIGHTED SUBSEQ INSTALL MIN G	INITIAL INSTALL COST H=D*E*F	SUBSEQ INSTALL COST I=D*E*G	WEIGHTED MINUTES SOURCE J
1 CUS SALES - RSC	251	\$35.86	0.597666						
2 CUS SALES - BSC	251	\$35.86	0.597666						
3 BUS SALES (COIN)	241	\$38.71	0.645187						
4 BUS SALES	241	\$38.71	0.645187						
5 CTO ACCESS SVC CTR	241	\$38.71	0.645187	1.00	10.00	15.00	\$6.45	\$9.68	C1,110-15
6 CUS SALES - LAC	291	\$29.79	0.496572						
7	251	\$35.86	0.597666						
8 CUS SALES - RCMAC	251	\$35.86	0.597666	1.00	1.00	1.00	\$0.60	\$0.60	C2,110-15
9 NTWK FIELD MAINT - C.O.	414/415	\$43.21	0.720118						
10 NTWK ENGR & CONSTRUC	231	\$39.65	0.660850						
11	320	\$51.49	0.858233						
12 CUS SALES/INSTALL	210	\$50.94	0.848977						
13 CTO INSTALLATION	514	\$48.24	0.803948						
14 CTO CKT DESIGN	471	\$33.61	0.560112						
15 NTWK FIELD MAINT - COIN	520	\$38.94	0.648925						
16 CUS SALES - SO COMPL	291	\$29.79	0.496572						
17 CTO - SO COMPLETION	291	\$29.79	0.496572						
18 BUS SALES - COIN AE	6H	\$47.23	0.787217						
19 BUS SALES - AE	6H	\$47.23	0.787217						
20									

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TOTAL PRIOR TO RELEASE TO PUBLIC
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**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

**ADD A TERMINAL TO A LINE OR CHANGE THE CONFIGURATION OF A FEATURE OR TERMINAL
CUSTOMIZE TERMINAL BUTTON CONFIGURATION**

AREA A	JOB LEVEL B	RATE PER HOUR C	RATE PER MIN D=C/60	FLOWTHRU WEIGHTING E	WEIGHTED INITIAL INSTALL MIN F	WEIGHTED SUBSEQ INSTALL MIN G	INITIAL INSTALL COST H=D*E*F	SUBSEQ INSTALL COST I=D*E*G	WEIGHTED MINUTES SOURCE J
1 CUS SALES - RSC	251	\$35.86	0.597666						
2 CUS SALES - BSC	251	\$35.86	0.597666						
3 BUS SALES (COIN)	241	\$38.71	0.645187						
4 BUS SALES	241	\$38.71	0.645187						
5 CTO ACCESS SVC CTR	241	\$38.71	0.645187	1.00	15.00	N/A	\$9.68	N/A	C1,L16-17
6 CUS SALES - LAC	291	\$29.79	0.496572						
7	251	\$35.86	0.597666						
8 CUS SALES - RCMAC	251	\$35.86	0.597666						
9 NTWK FIELD MAINT - C.O.	414/415	\$43.21	0.720118	1.00	1.00	N/A	\$0.60	N/A	C2,L16-17
10 NTWK ENGR & CONSTRUC	231	\$39.65	0.660850						
11	320	\$51.49	0.858233						
12 CUS SALES/INSTALL	210	\$50.94	0.848977						
13 CTO INSTALLATION	514	\$48.24	0.803948						
14 CTO CKT DESIGN	471	\$33.61	0.560112						
15 NTWK FIELD MAINT - COIN	520	\$38.94	0.648925						
16 CUS SALES - SO COMPL	291	\$29.79	0.496572						
17 CTO - SO COMPLETION	291	\$29.79	0.496572						
18 BUS SALES - COIN AE	6H	\$47.23	0.787217						
19 BUS SALES - AE	6H	\$47.23	0.787217						
20									

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TOTAL \$10.28
PROVIDED TO PUCO

**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

CLIENT TECHNICAL OPERATIONS - ACCESS SERVICE CENTER
SOURCE: LARRY MCCLANAHAN

SERVICE	INITIAL INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES	SUBSEQUENT INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES
1 INSTALL B-CHANNEL CIRCUIT SWITCHED VOICE AND DATA WITH FLAT RATE SERVICE	NEGOTIATE ORDER	241	25	N/A	N/A	N/A
2 INSTALL B-CHANNEL CIRCUIT SWITCHED VOICE AND DATA WITH MEASURED RATE SERVICE	NEGOTIATE ORDER	241	25	N/A	N/A	N/A
3 INSTALL B-CHANNEL PACKET SWITCHED DATA	NEGOTIATE ORDER	241	25	N/A	N/A	N/A
4 INSTALL D-CHANNEL PACKET SWITCHED DATA	NEGOTIATE ORDER	241	25	N/A	N/A	N/A
5 INSTALL CIRCUIT SWITCHED HUNTING FEATURE	NEGOTIATE ORDER	241	5	NEGOTIATE ORDER	241	10
6 INSTALL CIRCUIT SWITCHED ADDITIONAL CALL REFERENCES FEATURE	NEGOTIATE ORDER	241	5	NEGOTIATE ORDER	241	10
7 INSTALL CIRCUIT SWITCHED SIX PARTY CONFERENCE CALLING FEATURE	NEGOTIATE ORDER	241	5	NEGOTIATE ORDER	241	10
8 INSTALL CIRCUIT SWITCHED CALL PICKUP FEATURE	NEGOTIATE ORDER	241	5	NEGOTIATE ORDER	241	10
9 INSTALL CIRCUIT SWITCHED ELECTRONIC KEY TELEPHONE SERVICE FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	10
10 INSTALL CIRCUIT SWITCHED ADDITIONAL DIRECTORY NUMBER FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	10

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**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

SERVICE	INITIAL INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES	SUBSEQUENT INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES
11 INSTALL PACKET SWITCHED X.25 HUNTING FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	15
12 INSTALL PACKET SWITCHED CLOSED USER GROUP MEMBER FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	15
13 INSTALL PACKET SWITCHED ADDITIONAL LOGICAL CHANNELS FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	15
14 INSTALL PACKET SWITCHED PERMANENT VIRTUAL CIRCUIT FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	15
15 INSTALL PACKET SWITCHED ADDITIONAL DIRECTORY NUMBER FEATURE	NEGOTIATE ORDER	241	10	NEGOTIATE ORDER	241	15
16 ADD A TERMINAL TO A LINE OR CHANGE THE CONFIGURATION OF A FEATURE OR TERMINAL	NEGOTIATE ORDER	241	15	N/A	N/A	N/A
17 CUSTOMIZE TERMINAL BUTTON CONFIGURATION	NEGOTIATE ORDER	241	15	N/A PRIOR TO RELEASE TO PUBLIC	N/A	N/A

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**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

CUSTOMER SALES AND SERVICE - RCMAC
SOURCE: LARRY MCCLANAHAN

SERVICE	INITIAL INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES	SUBSEQUENT INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES
1 INSTALL B-CHANNEL CIRCUIT SWITCHED VOICE AND DATA WITH FLAT RATE SERVICE	DO TRANSLATIONS	251	5	N/A	N/A	N/A
2 INSTALL B-CHANNEL CIRCUIT SWITCHED VOICE AND DATA WITH MEASURED RATE SERVICE	DO TRANSLATIONS	251	5	N/A	N/A	N/A
3 INSTALL B-CHANNEL PACKET SWITCHED DATA	DO TRANSLATIONS	251	5	N/A	N/A	N/A
4 INSTALL D-CHANNEL PACKET SWITCHED DATA	DO TRANSLATIONS	251	5	N/A	N/A	N/A
5 INSTALL CIRCUIT SWITCHED HUNTING FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
6 INSTALL CIRCUIT SWITCHED ADDITIONAL CALL REFERENCES FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
7 INSTALL CIRCUIT SWITCHED SIX PARTY CONFERENCE CALLING FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
8 INSTALL CIRCUIT SWITCHED CALL PICKUP FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
9 INSTALL CIRCUIT SWITCHED ELECTRONIC KEY TELEPHONE SERVICE FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
10 INSTALL CIRCUIT SWITCHED ADDITIONAL DIRECTORY NUMBER FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1

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PRIOR TO RELEASE TO PUBLIC
DO TRANSLATIONS
PROVIDED TO PUCO

**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

SERVICE	INITIAL INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES	SUBSEQUENT INSTALL ACTIVITY	JOB LEVEL	TIME IN MINUTES
11 INSTALL PACKET SWITCHED X.25 HUNTING FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
12 INSTALL PACKET SWITCHED CLOSED USER GROUP MEMBER FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
13 INSTALL PACKET SWITCHED ADDITIONAL LOGICAL CHANNELS FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
14 INSTALL PACKET SWITCHED PERMANENT VIRTUAL CIRCUIT FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
15 INSTALL PACKET SWITCHED ADDITIONAL DIRECTORY NUMBER FEATURE	DO TRANSLATIONS	251	1	DO TRANSLATIONS	251	1
16 ADD A TERMINAL TO A LINE OR CHANGE THE CONFIGURATION OF A FEATURE OR TERMINAL	DO TRANSLATIONS	251	1	N/A	CONFIDENTIAL	N/A
17 CUSTOMIZE TERMINAL BUTTON CONFIGURATION	DO TRANSLATIONS	251	1	N/A	NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC	N/A
					PROVIDED TO PUCO	

ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS

1996 LABOR RATES

SOURCE: "SUMMARY OF 1996 LABOR RATES FOR USE IN COST FOR PRICING STUDIES"
MEMO ISSUED BY STEPHANIE BROWNING, MAY 8, 1996

LEVELIZED LABOR INFLATION RATE: 1.068
SEE SHEET E1 FOR CALCULATIONS

JOB LEVEL	DIRECTLY ASSIGNED LABOR RATE PER HOUR	INFLATED LABOR RATE PER HOUR
210	\$47.70	\$50.94
231	\$37.13	\$39.65
241	\$36.25	\$38.71
251	\$33.58	\$35.86
291	\$27.90	\$29.79
320	\$48.22	\$51.49
414/415	\$40.46	\$43.21
471	\$31.47	\$33.64
514	\$45.17	\$48.24
520	\$36.46	\$38.94
6H	\$44.23	\$47.03

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**ISDN FEATURES
SUMMARY OF NON-RECURRING COSTS**

LEVELIZED LABOR INFLATION RATE

(A)	Year (B)	Labor Inflation Rate (C)	Cumulative Labor Inflation Rate (D)	Discount Factor (E)	Discounted Labor Inflation Rate (F)
1	1996	1	1.000	1.0000	1.000
2	1997	1.034	1.034	0.8961	0.927
3	1998	1.038	1.073	0.8029	0.862
4	1999	1.039	1.115	0.7195	0.802
5	2000	1.041	1.161	0.6447	0.748
6			Sum:	4.0631	4.339
7				Levelized Inflation Rate:	1.068

8 Discount Rate 11.6%

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SOURCES:
 Column C = Forecasted Inflation Rate (Not Public)
 Column D = Column C * Previous Pipe Expenditure
 Column E = 1 / Line 8 ^ (Column A - 1)
 Column F = Column D * Column E
 Column F Line 7 = Column F, L. 6 / Column E, L. 6

**ISDN PRIMARY RATE INTERFACE,
UNBUNDLED
(TELRIC)**

MCI Depo.
EX. NO. 24
CDR 11-26-97

ISDN Primary Rate Interface

TELRIC Study

Prepared by: Chuck Catanese

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DESTROY BY SHREDDING

Appendix

	<u>IAB</u>
Cost Summary	A
Cost Detail/RTU Fees	B
Investments/Charge Factors	C
SCIS Output - ISDN PRI Features	D
SCIS Input Data	E
Feature Descriptions	F

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DESTROY BY SHREDDING

Line Termination Summary

	A	B	C	D	E	F	G	H	I
1									
2					Incremental Cost	Joint Cost	Monthly Total		
3									
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DESTROY BY SHREDDING

Optional Feature Summary

	A	B	C	D	E	F	G	H	I
1									
2					Incremental Cost	Joint Cost	Monthly Total		
3									
4									
5	Call by Call Access, per PRI				\$ 55.0434	\$ 11.1874	\$ 66.2308	Cost	
6									
7	Calling Number Delivery to PRI, per PRI				\$ 0.5302	\$ 0.1878	\$ 0.6379	Cost	
8									
9	PRI D-channel backup, per channel				\$ 0.2089	\$ 0.0425	\$ 0.2514	Cost	
10									
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48	CONFIDENTIAL								
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53	DESTROY BY SHREDDING								
54									

Cost Detail

Page 3

A	B	C	D	E	F	G	H	I	J
1	Feature Description			Incremental Cost					
2				Switch Investment	Telco Engineering	Power & Common	Land	Building	
3				Monthly cost	Monthly cost	Monthly cost	Monthly cost	Monthly cost	
4	ISDN PRI Features								
5	22	DID switching, term cost removed, per B channel		\$ 0.0330	\$ 0.0038	\$ 0.0027	\$ 0.0002	\$ 0.0047	
6	191	Primary Rate Interface, 0B + D		\$ 248.5360	\$ 28.5816	\$ 19.9802	\$ 1.1733	\$ 35.1887	
7	192	CSV/CSD for PRI, 23B channels		\$ 18.8775	\$ 2.1709	\$ 1.5176	\$ 0.0891	\$ 2.8713	
8	192	CSV/CSD for PRI, 23B channels, DID		\$ 12.1834	\$ 1.4011	\$ 0.9794	\$ 0.0579	\$ 1.7240	
9	193	Call by Call Access, per PRI		\$ 49.3863	\$ 5.6777	\$ 3.9686	\$ 0.2330	\$ 6.9857	
10	194	Calling Number Delivery to PRI, per PRI		\$ 0.4755	\$ 0.0547	\$ 0.0382	\$ 0.0022	\$ 0.0673	
11	195	DID directory numbers		\$ -	\$ -	\$ -	\$ -	\$ -	
12	922	PRI D-channel backup, per channel		\$ 0.1874	\$ 0.0215	\$ 0.0151	\$ 0.0009	\$ 0.0265	
13									
14									
15									
16		MOF/Protector							
17		Cost associated with loop only		\$ 0.5436	0.0625	0.0437	\$ 0.0026	\$ 0.0769	
18									
19									
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34									
35		Source for Column "E"		=Feature Investment/IE*Charge Factor/ISK\$15 *					
36									
37		Source for Column "F"		=Feature Investment/IF*Charge Factor/ISK\$15 *					
38									
39		Source for Column "G"		=Feature Investment/IG*Charge Factor/ISK\$15 *					
40									
41		Source for Column "H"		=Feature Investment/II*Charge Factor/ISC\$4*Charge Factor/ISK\$19 *					
42									
43		Source for Column "I"		=Feature Investment/II*Charge Factor/ISC\$3*Charge Factor/ISK\$17 *					
44									
45									
46									
47		TEST TOTAL-Not Including RTU fees							
48	CONFIDENTIAL								
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53	DESTROY BY SHREDDING								

Right-To-Use Fees

	A	B	C	D	E	F
1						
2	NSEP Symbol		NRC	Discount	Plus GRI	Monthly Cost
3			per line	36%		
4				C=1.036	(D=1.049)	
5	NISBPRI Basic Std PRI		\$ 4,300.00	\$ 2,752.00	\$ 2,889.32	\$ 61.8170
6						
7						
8						
9						
10						
11						
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14						
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17						
18						
19						
20						
21	Source for Column " C "	Kathy Himes, Engineering				
22						
23	Source for column " F "	E / Present value annuity factor				
24		EXCEL formula PV(10.3%/12,60,-1) - 1				
25		10.3% Cost of Money per S. Browning, Service Costs, 1/17/97				
26						
27						
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43	CONFIDENTIAL					
44	CINCINNATI BELL TELEPHONE CO.					
45	Distribution and disclosure limited to designated personnel within Cincinnati					
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48	DESTROY BY SHREDDING					

Feature Investment

Page 5

	A	B	C	D	E	F	G	H	I	J	K
1	Feature Description				Investment					Sources: TAB D	
2					Average	Telco Eng.	Sub Total	Power & Common	Total	Switch Investment	
3						11.5%		377c 7.21%		SCISAN Avg. Run	
4	ISDN PRI Features				\$	(E x .115)	(E + F)	(G x .0721)	(G + H)	Page	
5	22 DID switching, term cost removed, per B channel				1.25131	0.14390065	1.39521065	0.100595	1.495805	1	Line C
6	191 Primary Rate Interface, 0B + D				9423.16508	1083.663984	10506.82906	757.542378	11264.371440	2	
7	192 CSV/CSD for PRI, 23B channels				715.73415	82.30942725	798.0435773	57.538942	855.582519	3	
8	192 CSV/CSD for PRI, 23B channels: DID				461.93042	53.1219983	515.0524183	37.135279	552.187698	4	
9	193 Call by Call Access, per PRI				1871.70691	215.2462947	2086.953205	150.469328	2237.422531	5	
10	194 Calling Number Delivery to PRI per PRI				18.02808	2.0732292	20.1013092	1.449304	21.550614	6	
11	195 DID directory numbers				0	0	0	0	0	7	
12	922 PRI D-channel backup, per channel				7.10446	0.8170129	7.9214729	0.571138	8.492611	8	
13											
14											
15											
16	MDF/Protector										
17	Cost associated with loop only				20.6099	2.3701385	22.9800385	1.656861	24.636899	Bellcore Special Study	
18											
19											
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48	CONFIDENTIAL										
49	CINCINNATI BELL TELEPHONE CO.										
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51	Bell Telephone Co. except with written permission from the Proprietary										
52	Information Coordinator at (397-7562).										
53	DESTROY BY SHREDDING										

Charge Factor

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3	Building Factor		0.1316								
4	Land Factor		0.0056								
5											
6											
7											
8	Ohio										
9											
10	PLANT ACCT	BOOK DEP'N	POST TAX INC	INC TAX	PROP TAX	TOTAL CAPITAL COSTS (B+C+D+E)	MTCE	UN-BUNDLE EXPENSE	DIRECT ADMIN EXPENSE	TOTAL DIRECT ASSIGNED COSTS + GRT (F+G+H+I)*1.0499	MCF Monthly Charge Factor J/12/100
11											
12											
13											
14											
15	377c	8.45	6.06	2.48	5.03	20.21	5.29	0.51	4.14	31.65	0.02638
16											
17	10jc-Bldg	5.76	5.22	4.05	0.64	15.66	6.81	0.51	4.14	28.47	0.02373
18											
19	20jc-Land	0.00	11.50	4.42	0.69	16.62	0.00	0.51	4.14	22.32	0.01860
20											
21											
22											
23											
24	Sources:										
25	L15, 17 & 19 - 1996 Annual Charge Percentages										
26	L15 (Col. G) - 1996 Annual Charge Percentages, MTCE, RTU cost removed										
27											
28											
29											
30											
31											
32											
33											
34											
35											

Sources
1994 Factor File
1994 Factor File

Sources:
L15, 17 & 19 - 1996 Annual Charge Percentages
L15 (Col. G) - 1996 Annual Charge Percentages, MTCE, RTU cost removed

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DESTROY BY SHREDDING

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DESTROY BY SHREDDING

BCIS/IN Features 4.1

Feature: 22. Direct Inward Dialing

Report: Average

Calculation: Avg. E. F&I

State: CA
Input File: isdn pri

Date: 02/10/97 15:55

Technology: SESS (SE NISN:05-22-96 (SEP. 2, 02-95))

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	1.25131	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	220.95156	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	222.20289	No Inv.	No Inv.		

TOTAL Investment:

per Trunk 222.20289

PROVIDED TO PUCO
per Office NA

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CINCINNATI BELL TELEPHONE
SCIS/IN Features
Feature: 191. Primary Rate Interface

Report: Average

Calculation: Avg. E, F&I
State: CBT
Input F(Le: isdn_pri Date: 02/11/97 13:13
Technology: 5ESS (SE WISDN:05-22-96 (SEP.2, 02-93))

Investment Category	Variable	Direct Fixed per PRI	Shared Fixed per PRI	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	No Inv.	No Inv.	No Inv.		
D. Minimum per Line	9423.16508	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	9423.16508	No Inv.	No Inv.	NA	NA
TOTAL Investment:	per PRI 9423.16508			per Office NA	

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CINCINNATI BELL TI HOME
SCIS/IN Features 2.1
Feature: 192. Circuit Switched Voice/Data for PRI

Report: Average

Calculation: Avg. E,F,H
State: CBT
Input File: isch_pri
Date: 02/10/97 15:56
Technology: SESS (SE WISDN:05-22-96 (SEP.2, 02-95))

Investment Category	Variable	Direct Fixed per PRI	Shared Fixed per PRI	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	715.73415	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	715.73415	No Inv.	No Inv.	NA	NA
TOTAL Investment:	per PRI 715.73415			per Office NA	

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NO INVESTMENT HAVE GIVEN

PROVIDED TO PUBLIC

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CINCINNATI BELL T. HOME
SCIS/IN Features 2.1
Feature 192. Circuit Switched Voice/Data for PRI

Report: Average

Calculation: Avg. E, FBI
State: CBT
Technology: SESS (SE NISDN: 05-22-96 (SEP 2, 92-95))
Date: 02/11/97 14:29
Input Files: iedn_pri

Investment Category	Variable	Direct Fixed per PRI	Shared Fixed per PRI	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	661.93042	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	661.93042			NA	NA
TOTAL Investment:	per PRI 661.93042			PROVIDED TO PUBLIC per Office NA	

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CINCINNATI BELL PHONE
SCIS/JN Features 2.1
Feature: 193. Call by Call Access

Report: Average

Calculation: Avg. E, F&I
State: CBT
Input File: isdn_pri
Date: 02/10/97 15:56
Technology: SESS (SE NISDN:05-22-96 (569.2, 02-95))

Investment Category	Variable	Direct Fixed per PRI	Shared Fixed per PRI	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.00000	No Inv.	599.13667		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	1272.57023	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	1272.57023				

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NOTICE: 599.13667 BE GIVEN NA
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per Office NA

TOTAL Investment: per PRI 1871.70691

PROVIDED TO PUCO

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CINCINNATI BELL T. HOME
SCIS/IN Features 2.1
Features: 194. Calling Number Delivery to PRI

Report: Average

Calculation: Avg. E, F, I
State: CBT Input File: isdn_pri Date: 02/10/97 15:56
Technology: SESS (SE NISDN:05-22-96 (SE9.2, 02-95))

Investment Category	Variable	Direct Fixed per PRI	Shared Fixed per PRI	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
B. CCS	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
C. Call	18.02808	No Inv.	No Inv.	No Inv.	No Inv.
D. Minimum per Line	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
E. Hardware	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
F. Memory	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
G. SSP Octet	No Inv.	No Inv.	No Inv.	No Inv.	No Inv.
H. Total End Office	18.02808	No Inv.	No Inv.	No Inv.	No Inv.

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NOTICE: PRIOR TO NA

PROVIDED TO per b10600 NA

TOTAL Investment: per PRI 18.02808

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CINCINNATI BELL 1 'NONE'
 SCIS/IN Features 2.1
 Feature: 195. Direct Inward Dialing-DN

Report: Average

Calculation: Avg. F&I
 State: CBT Input File: isdn_pri Date: 02/10/97 15:56
 Technology: 5ESS (SE WISDN:05-22-96 (SEP.2, 02-95))

Investment Category	Variable	Direct Fixed per DN	Shared Fixed per DN	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	No Inv.	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	No Inv.			NA	NA
TOTAL Investment:	per DN No Inv.			per Office NA	

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CINCINNATI BELL PHONE
 9018/1N Feature 2.1
 Feature: 922. PRI D-Channel Backup

Report: Average

Calculation: Avg. 922.1

State: CBT

Date: 02/10/97 15:56

Input File: Input1

Technology: SESS (SE NISN:05-22-96 (SEP 2, 03-96))

Investment Category	Variable	Direct Fixed per PRI Channel	Shared Fixed per PRI Channel	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	7.10446	No Inv.	No Inv.		
D. Minimum per Line	No Inv.	No Inv.	No Inv.		
E. Hardware	No Inv.	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Office	7.10446	No Inv.	No Inv.		NA

TOTAL Investment:

per PRI Channel 7.10446

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CINCINNATI BELL TEL ONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Calculation: E, FBI
State: CBY

Input File: isdn_pri

Date: 12/30/96 11:09

Input # Value Description

IP2	5.00000	8H DID calls per Trunk
IP3	1.00000	Trunks are: Analog
IP4	5.00000	Trunks per Group

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CINCINNATI BELL 1 HOME
SCIS/IN Features 2.)
Features: 191. Primary Rate Interface

Calculation: E, PRI

State: CBT

Input File: isdn_pri

Date: 02/10/97 11:10

Input # Value Description

IP1 23.00000 Channels per PRI
IP3 1.00000 T1's controlled

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:CINCINNATI BELL TEL ME
 SCIS/IN Features 2.1
 Feature: 192. Circuit Switched Voice/Data for PRI

Calculation: E,F&I
 State: CBT
 Input File: isdn_pri
 Date: 12/30/96 11:10

Input #	Value	Description
IP1	3.59000	BH Originating 140 calls per PRI channel
IP2	3.59000	BH Originating 140 calls per PRI channel
IP3	7.17000	BH Terminating calls per PRI channel
IP4	23.00000	Channels per PRI

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CINCINNATI BELL TI NONE
SCIS/IN Features 2.1
Feature: 192. Circuit Switched Voice/Data for PRI

Calculation: E.FEI
State: CBT
Input File: tech_pri
Date: 02/11/97 14:29

Input #	Value	Description
IP1	0.00000	BH Originating 140 calls per PRI channel
IP2	0.00000	BH Originating 140 calls per PRI channel
IP3	7.17000	BH Terminating calls per PRI channel
IP4	23.00000	Channels per PRI

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CINCINNATI BELL 2MOM
SCIS/IN Features 2.1
Feature: 193. Call by Call Access

Calculation: E, PR1
State: CBT

Input File: tach_pri

Date: 12/30/96 11:10

Input #	Value	Description
IP1	330.00000	BH calls per PR1
IP2	165.00000	BH Originating CAC calls per PR1
IP3	165.00000	BH Terminating CAC calls per PR1

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CINCINNATI BELL PHONE

SCIS/IN Features 2.1

Features: 194. Calling Number Delivery to PRI

Calculations: E, F, H

State: CBT

Input File: lach_pri

Date: 12/30/96 11:10

Input # Value Description

IP1 165.00000 BH Terminating calls per PRI

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CINCINNATI BELL 1 HOME

SCIS/IN Features 2.1

Feature: 195. Direct Inward Dialing-ON

Calculation: E, FBI

State: CBT

Input File: isdn_pri

Date: 12/30/96 11:10

NO INPUTS REQUIRED

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CINCINNATI BELL 7 HOME
SC19/IN Features 2.1
Features: 922- P81 D-Channel Backlog

Calculation: F. (N)
State: CBT

Input Files (sch.pr)

Date: 12/30/96 11:10

NO INPUTS REQUIRED

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CINCINNATI BELL TR PHONE

SCIS/IM Feature .1

Feature: 22. Direct Inward Dialing

Calculation: E,F&I

State: CBT

Input File: iadn_pri

Date: 12/27/96 07:58

Description:

Note: See Feature 195 for DID-DN Investment. DID allows an incoming toll or DDD call (not FX or WATS) to reach a specific PBX station line without attendant assistance. With DID, the SPCS seizes a DID trunk and outpulses the station line number to the PBX. If the called station's line is idle and not restricted from receiving terminating calls, the PBX alerts the called station and returns audible ringing on the incoming connection. If the called station's line is busy, the PBX returns busy tone. If the called station is restricted from receiving terminating calls, the PBX routes the incoming call to an announcement, reorder tone, or to the attendant.

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CINCINNATI BELL TEL ME
SCIS/IN Features 4.1
Feature: 191. Primary Rate Interface

Calculations: E, F, G
State: CBT
Input File: isdn_pri
Date: 12/27/96 07:58

Description:

The Primary Rate Interface supports up to 23 bearer channels carrying circuit switched voice or data. The bearer channels are controlled by the D channel, which carries the packetized signalling information. This configuration is known as the 23B+D interface, the CCITT standard for primary rate ISDN. The interface is implemented on a 1.544 Mb/s digital connection. This feature identifies the investments for the interface of 926 for feature 192 for circuit switched voice/data on the PRI. See feature 926 for investments associated with just PRI 8 channels.

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CINCINNATI BELL TEL. CO.
SCIS/IN Features 2.1
Feature: 192. Circuit Switched Voice/Data for PRI

Calculation: E,F&I Input File: isdn_pri Date: 12/27/96 07:58
State: CBT

Description:

This feature provides circuit switched voice and/or data on the 8 channels of the PRI. This feature identifies investments incremental to regular POTS calls and assumes the PRI is configured as a PRI. See Feature 191 for the Primary Rate Interface to the switch.

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CINCINNATI BELL 1 'HOME
SCIS/IN Features 2.1
Feature: 193. Call by Call Access

Calculation: E,FBI
State: CBT

Input File: isdn_pri

Date: 12/27/96 07:58

Description:

Call-by-call trunks (channels) allow a trunk group to have multiple features assigned, where an SFG limits the maximum number of a particular call type (DID, DOD, OUTUATS, INUATS) that can be made simultaneously. Any members in a call-by-call feature trunk group can be used for any call-by-call features subscribed to by the group. The number of channels assigned in translations determines the "trunk group". SFG investigations are included.

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CINCINNATI BELL YE ONE
SCIS/IN Features 2.1
Features: 194. Calling Number Delivery to PRI

Calculations: E, F&I
State: CBI
Input File: isdn_pri
Date: 12/27/96 07:58

Description:

Calling Number Delivery to PRI provides the calling party DN to the PBX or host computer. The DN is always ten digits and is transported in the packetized signalling information on the D channel.

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CINCINNATI BELL TI KONE
SCIS/IN Features 2.1

Feature: 195. Direct Inward Dialing-DN

Calculation: E,F&I

State: CBY

Input file: isdn_pri

Date: 12/27/96 07:58

Description:

DID-DN identifies the investments required to provide Directory Numbers (DNs) for assignment to the PBX stations. See Feature 22 for DID PBX trunks investment. DID allows an incoming toll or 900 call (not FX or WATS) to reach a specific PBX station line without attendant assistance. With DID, the SPCS seizes a DID trunk and outpulses the station line number to the PBX. If the called station's line is idle and not restricted from receiving terminating calls, the PBX alerts the called station and returns audible ringing on the incoming connection. If the called station's line is busy, the PBX returns busy tone. If the called station is restricted from receiving terminating calls, the PBX routes the incoming call to an announcement, reorder tone, or other tone.

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CINCINNATI BELL TEL. ONE
SCIS/IN Features 2.1
Feature: 922. PRI D-Channel Backup

Calculations: E, F, J
State: CBT

Input File: isdn_pri

Date: 12/27/96 07:58

Description:

This feature provides the ability to provision a second PRI D-Channel as a backup D-Channel. The feature includes a monitoring capability for both D-channels and, in case of failure of the primary channel, provides automatic switching from the primary D-Channel to the backup with no loss of service. With the active and back-up D channels residing on different DS1 facilities, this capability is designed to enhance service reliability when multiple DS1 facilities are controlled by a single D-Channel. **CONFIDENTIAL**
can be supported with D-Channel backup. This feature does not include the hardware for the D-channel termination. The investments for this feature are incremental to two PRI (238-0) terminations (see 191 for PRI hardware investments and 192 for usage investments on PRI). Check with your SESS engineers to determine if additional packet handler equipment is being installed just to serve back-up D channels - this investment is not included in this feature for SESS and you should obtain these investments from your engineer. **CONFIDENTIAL**

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**LINE TERMINATION & DIRECT INWARD
DIALING (DID)
(TELRIC)**

NCI Depo.
EX. NO. 25
CDR 11-26-97

Unbundled Central Office Line Termination Summary

Analog Monthly Cost (w/ Switch Side (Port) of MDF)

Band 1	\$	2.05	1
Band 2	\$	2.05	2
Band 3	\$	7.64	3
Average Office	\$	2.24	4

MDF Line Investment (w Line Side (Loop) of MDF)

Band 1, 2 or 3	\$	0.36	5
----------------	----	------	---

Direct Inward Dialing (DID) Summary

Switch Side - Port

Band 1, 2 or 3	\$	16.85	6
----------------	----	-------	---

Line Side - Loop

Band 1, 2 or 3	\$	0.36	7
----------------	----	------	---

Sources: L1, - See Tab A, Summary, L1.
L2, - See Tab A, Summary, L2.
L3, - See Tab A, Summary, L3.
L4, - See Tab A, Summary, L4.
L5, - See Tab B, Summary, L1.
L6, - See Tab D, Summary, L1.
L7, - See Tab D, Summary, L2.

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2/20/97 3:12 PM

Central Office Line Termination Summary

Analog Monthly Cost (w/ Switch Side (Port) of MDF)

Total

Band 1	\$ 2.0452	1
Band 2	\$ 2.0543	2
Band 3	\$ 7.6414	3
Average Office	\$ 2.2408	4

Sources: L1, - See Tab A, Page 1, L19. ·
L2, - See Tab A, Page 2, L19. ·
L3, - See Tab A, Page 3, L19. ·
L4, - See Tab A, Page 4, L19. ·

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2/20/97 3:12 PM

Analog Band 1		
Description A	Sources B	Total C
1) SCIS Investment	Tab A, Page 5, L25, Col H	\$ 10.30421
2) SCIS Spare Capacity	Tab A, Page 5, L25, Col I	\$ 47.48733
3) Filled Investment	Line 1 + Line 2	\$ 57.79154
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 64.4376
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 69.0835
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col J / 100	0.3165
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 1.8423
10) Land Factor	Factor File (1994)	0.0056
11) Land Investment (20jc)	Line 7 * Line 10	\$ 0.3869
12) Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2332
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ 0.7517
14) Bldg Factor	Factor File (1994)	0.1316
15) Bldg Investment (10jc)	Line 7 * Line 14	\$ 9.0914
16) Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ 0.2157
18) Total Investment	Line 7 + Line 11 - Line 15	\$ 78.5618
19) Total Monthly Cost	Line 9 + Line 13 - Line 17	\$ 2.0452

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Analog Band 2		
Description A	Sources B	Total C
1) SCIS Investment	Tab A, Page 5, L37, Col H	\$ 17.85798.
2) SCIS Spare Capacity	Tab A, Page 5, L37, Col I	\$ 40.18945.
3) Filled Investment	Line 1 + Line 2	\$ 58.04743.
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 64.7229.
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721.
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 69.3894.
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col J / 100	0.3165.
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 1.8304.
10) Land Factor	Factor File (1994)	0.0056.
11) Land Investment (20jc)	Line 7 * Line 10	\$ 0.3886.
12) Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232.
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ 0.0072.
14) Bldg Factor	Factor File (1994)	0.1816.
15) Bldg Investment (10jc)	Line 7 * Line 14	9.1316.
16) Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847.
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ 0.1364.
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 78.9096.
19) Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 2.0543.

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Analog Band 3		
Description A	Sources B	Total C
1) SCIS Investment	Tab A, Page 5, L45, Col H	\$ 200.51476
2) SCIS Spare Capacity	Tab A, Page 5, L45, Col I	\$ 15.40606
3) Filled Investment	Line 1 + Line 2	\$ 215.92082
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 240.7517
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 258.1099
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col J / 100	0.3165
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 6.5886
10) Land Factor	Factor File (1994)	0.0056
11) Land Investment (20jc)	Line 7 * Line 10	\$ 1.4454
12) Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ 0.6223
14) Bldg Factor	Factor File (1994)	0.1516
15) Bldg Investment (10jc)	Line 7 * Line 14	33.9673
16) Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ 0.6859
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 293.5226
19) Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 7.6414

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Average/Composite Office		
Description A	Sources B	Total C
1) SCIS Investment	Tab A, Page 5, L46, Col H	\$ 18.59328*
2) SCIS Spare Capacity	Tab A, Page 5, L46, Col I	\$ 44.72339*
3) Filled Investment	Line 1 + Line 2	\$ 63.31667*
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 70.5981*
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721*
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 75.6882*
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col J / 100	0.3165*
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 1.996*
10) Land Factor	Factor File (1994)	0.0056*
11) Land Investment (20jc)	Line 7 * Line 10	\$ 0.4239*
12) Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232*
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ 0.095*
14) Bldg Factor	Factor File (1994)	0.1316*
15) Bldg Investment (10jc)	Line 7 * Line 14	\$ 9.9606*
16) Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847*
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ 0.2847*
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 86.0726*
19) Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 2.2408*

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DESTROY BY SHREDDING

**ANALOG LINE TERMINATION INVESTMENTS
BY CENTRAL OFFICE (SWITCH SIDE OF MDF - HORIZONTAL)**

BUILDING	INCRM. INVEST.	JOINT INVEST.	TOTAL INVEST.
A	B	C=A+B	

**WORKING
NAL**

D

**TOTAL
INCRM.
INVEST.**

E=A*D

**TOTAL
JOINT
INVEST.**

F=B*D

**TOTAL
TOTAL
INVEST.**

G=C*D

**AVG.
INCRM.
INV.**

H=E/D

**AVG.
JOINT
INV.**

I=F/D

**AVG.
TOTAL
INV.**

J=G/D

Band 1

2	WS	WEST SEVENTH	\$10 31564	\$77 49483	\$87 81047	55.643	\$573.993	\$4,312,044.83	\$4,886,037.98
3	AV	AVONDALE	\$10 31564	\$48 68422	\$58 99986	37.733	\$389,240.04	\$1,837,001.67	\$2,226,241.72
4	NW	NORWOOD	\$10 27393	\$43 56353	\$53 83746	33.839	\$347,659.63	\$1,474,146.32	\$1,821,805.95
5	PH	PRICE HILL	\$10 35356	\$58 66131	\$69 01487	16.110	\$166,795.85	\$945,033.70	\$1,111,829.56
6	EV	EVENDALE	\$10 31564	\$63 30873	\$73 62437	26.789	\$276,343.68	\$1,695,977.57	\$1,972,323.25
7	SB	ST BERNARD	\$10 31564	\$53 15540	\$63 47104	11.638	\$120,053.42	\$618,622.55	\$738,675.96
8	WD	WESTWOOD	\$10 31564	\$35 66227	\$45 97791	24.573	\$253,486.22	\$876,328.96	\$1,129,815.19
9	HW	HARTWELL	\$10 35356	\$40 53832	\$50 89188	10.273	\$106,362.12	\$416,450.16	\$522,812.28
10	HP	HYDE PARK	\$10 27393	\$43 56353	\$53 83746	20.225	\$207,790.30	\$881,072.41	\$1,088,862.71
11	MH	MT. HEALTHY	\$10 31564	\$31 68609	\$42 00173	24.231	\$249,958.27	\$767,785.65	\$1,017,743.92
12	NS	NORTHSIDE	\$10 31564	\$31 41811	\$41 73375	22.226	\$229,275.41	\$698,298.91	\$927,574.33
13	MO	MONTGOMERY	\$10 31564	\$32 21870	\$42 53434	14.242	\$146,915.34	\$458,838.73	\$605,774.07
14	CD	COVEDALE	\$10 31564	\$33 21696	\$43 53260	14.693	\$151,567.70	\$488,056.79	\$639,624.49
15	FF	FAIRFIELD	\$10 27393	\$43 56353	\$53 83746	11.506	\$118,211.88	\$501,241.99	\$619,453.86
16	RO	ROSSMOYNE	\$10 31564	\$53 26618	\$63 58182	41.355	\$426,603.29	\$2,202,822.87	\$2,629,426.17
17	GD	GLENDALE	\$10 31564	\$71 17710	\$81 49274	13.788	\$142,232.04	\$981,389.85	\$1,123,621.90
18	NG	NORTH GREENHILLS	\$10 31564	\$34 16335	\$44 47899	25.950	\$267,690.86	\$886,538.93	\$1,154,229.79
19	CQ	CERRY GROVE	\$10 31564	\$40 13464	\$50 45028	13.977	\$144,181.70	\$560,961.86	\$705,143.56
20	CS	CRESCENTVILLE	\$10 31564	\$38 55810	\$48 87374	19.469	\$200,835.20	\$750,687.65	\$951,522.84
21	CH	CHEVIOT	\$10 08904	\$34 11683	\$44 20587	11.954	\$120,604.38	\$407,832.59	\$528,436.97
22	MA	MADISONVILLE	\$10 27393	\$43 56353	\$53 83746	18.866	\$193,828.03	\$821,869.57	\$1,015,697.60
23	MW	MT. WASHINGTON	\$10 31564	\$35 15329	\$45 46893	21.024	\$216,876.02	\$739,062.77	\$955,938.78
24	GR	GROESBECK	\$10 27393	\$43 56353	\$53 83746	12.324	\$126,615.96	\$536,876.95	\$663,492.91
25		Total				502,428	\$5,177,122.52	\$23,858,963.28	\$29,036,085.80

\$ 10.30, \$ 47.49, \$ 55.79

Band 2

26	TO	TOBASCO	\$10 31564	\$35 56585	\$45 88149	18.693	\$192,830.26	\$664,832.43	\$857,662.69
27	WC	WEST CHESTER	\$10 35356	\$60 96278	\$71 31634	13.951	\$144,442.52	\$850,491.74	\$994,934.26
28	MF	MILFORD	\$10 31564	\$30 90591	\$41 22155	15.373	\$158,582.33	\$475,114.55	\$633,698.89
29	LO	LOVELAND	\$10 31564	\$36 70081	\$47 01645	19.042	\$196,430.42	\$698,156.82	\$895,287.24
30	HM	HAMILTON	\$10 27393	\$43 56353	\$53 83746	47.723	\$490,302.93	\$2,078,982.38	\$2,569,285.31
31	GO	GOSHEN	\$10 35356	\$39 72133	\$50 07489	7.621	\$78,904.48	\$302,716.26	\$381,620.74
32	SP	SAYLER PARK	\$9 23035	\$43 15853	\$52 38888	8.948	\$82,593.17	\$386,182.53	\$468,775.70
33	HT	HAMLET	\$197 83464	\$14 76815	\$212 60279	2.364	\$467,681.09	\$34,913.91	\$502,595.00
34	BA	BATAVIA	\$10 35356	\$35 36318	\$45 71674	5.840	\$60,464.79	\$206,520.97	\$266,985.76
35	MM	MIAMI	\$204 77263	\$23 58544	\$228 35807	3.755	\$768,921.23	\$88,563.33	\$857,484.55
36	HR	HARRISON	\$10 35356	\$37 65898	\$48 01254	10.917	\$113,029.81	\$411,323.08	\$524,352.90
37		Total				154,227	\$2,754,183.02	\$6,198,298.01	\$8,952,481.03

\$ 17.86, \$ 40.19, \$ 58.05

Band 3

38	BE	BETHEL	\$200 09703	\$15 89201	\$215 98904	4.460	\$892,432.75	\$70,878.36	\$963,311.12
39	NR	NEW RICHMOND	\$204 77263	\$15 04534	\$219 81797	3.929	\$804,351.66	\$59,113.14	\$863,464.80
40	SH	SHANDON	\$204 77263	\$14 19133	\$218 96396	4.302	\$880,931.85	\$61,051.10	\$941,982.96
41	WB	WILLIAMSBURG	\$197 83464	\$17 51996	\$215 35460	3.262	\$645,336.60	\$57,150.16	\$702,486.71
42	NE	NEWTONSVILLE	\$200 09703	\$12 95042	\$213 04745	4.360	\$872,423.05	\$56,463.83	\$928,886.88
43	SM	SEVEN MILE	\$193 45276	\$19 10286	\$212 55562	2.068	\$400,060.31	\$39,504.71	\$439,565.02
44	RE	REILY	\$193 45276	\$15 97149	\$209 42425	1.135	\$219,568.88	\$18,127.64	\$237,696.52
45		Total				23,516	\$4,715,305.11	\$362,288.90	\$5,077,594.01

\$ 200.51, \$ 15.41, \$ 215.92

46 Average/Composite Office

680,171

\$ 12,646,610.65 \$ 30,419,550.19 \$ 43,066,160.84

\$ 18.59, \$ 44.72, \$ 63.32

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 L23, Col A. - See Tab A, Page 7, L23, Col A. - Tab B, Page 1, L1.
 L24, Col A. - See Tab A, Page 7, L13, Col A. - Tab B, Page 1, L1.
 L25, Cols D-G, = Sum of L2 to L24.
 L26, Col A. - See Tab A, Page 7, L38, Col A. - Tab B, Page 1, L1.
 L27, Col A. - See Tab A, Page 7, L10, Col A. - Tab B, Page 1, L1.
 L28, Col A. - See Tab A, Page 7, L20, Col A. - Tab B, Page 1, L1.
 L29, Col A. - See Tab A, Page 7, L18, Col A. - Tab B, Page 1, L1.
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 L32, Col A. - See Tab A, Page 7, L33, Col A. - Tab B, Page 1, L1.
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 L36, Col A. - See Tab A, Page 7, L28, Col A. - Tab B, Page 1, L1.
 L37, Cols D-G, = Sum of L26 to L36.
 L38, Col A. - See Tab A, Page 7, L2, Col A. - Tab B, Page 1, L1.
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 L45, Cols D-G, = Sum of L38 to L44.

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 L24, Cols B & D, - See Tab A, Page 7, L13, Cols B & D.
 L25, Cols D-G, = Sum of L2 to L24.
 L26, Cols B & D, - See Tab A, Page 7, L38, Cols B & D.
 L27, Cols B & D, - See Tab A, Page 7, L10, Cols B & D.
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 L36, Cols B & D, - See Tab A, Page 7, L28, Cols B & D.
 L37, Cols D-G, = Sum of L26 to L36.
 L38, Cols B & D, - See Tab A, Page 7, L2, Cols B & D.
 L39, Cols B & D, - See Tab A, Page 7, L24, Cols B & D.
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 L43, Cols B & D, - See Tab A, Page 7, L34, Cols B & D.
 L44, Cols B & D, - See Tab A, Page 7, L30, Cols B & D.
 L45, Cols D-G, = Sum of L38 to L44.

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DESTROY BY SHREDDING

ANALOG LINE TERM. TOTAL OFFICES - OHIO					WORK NAL D	WORKING					
INVESTMENTS BY CENTRAL OFFICE						TOTAL INCREM. INVEST.	TOTAL JOINT INVEST.	TOTAL TOTAL INVEST.			
BUILDING	EQUIP TYPE	INCREM. INVEST.	JOINT INVEST.	TOTAL INVEST.		E=A*D	F=B*D	G=C*D			
		A	B	C=A+B							
1 AV	AVONDALE	SES	\$20 62059	\$48 68422	\$69 30481	37.733	\$778,076.72	\$1,837,001.67	\$2,615,078.40		
2 BE	BETHEL	D10	\$210 40198	\$15 89201	\$226 29399	4.460	\$938,392.83	\$70,878.36	\$1,009,271.20		
CG	CHERRY GROVE	SES	\$20 62059	\$40 13464	\$60 75523	13.977	\$288,213.99	\$560,961.86	\$849,175.85		
BA	- BATAVIA	SORM	\$20 65851	\$35 36318	\$56 02169	5.840	\$120,645.70	\$206,520.97	\$327,166.67		
5 CH	CHEVIOT	SES	\$20 39399	\$34 11683	\$54 51082	11.954	\$243,789.76	\$407,832.59	\$651,622.34		
6 CD	COVEDALE	SES	\$20 62059	\$33 21696	\$53 83755	14.693	\$302,978.33	\$488,056.79	\$791,035.12		
7 PH	- PRICE HILL	SORM	\$20 65851	\$58 66131	\$79 31982	16.110	\$332,808.60	\$945,033.70	\$1,277,842.30		
8 CS	CRESCENTVILLE	SES	\$20 62059	\$38 55810	\$59 17869	19.469	\$401,462.27	\$750,687.65	\$1,152,149.92		
9 EV	EVENDALE	SES	\$20 62059	\$63 30873	\$83 92932	26.789	\$552,404.99	\$1,695,977.57	\$2,248,382.55		
10 WC	- WEST CHESTE	SORM	\$20 65851	\$60 96278	\$81 62129	13.951	\$288,206.87	\$850,491.74	\$1,138,698.62		
11 FF	FAIRFIELD	AVG 5	\$20 57888	\$43 56353	\$64 14241	11.506	\$236,780.63	\$501,241.99	\$738,022.62		
GD	GLENDALE	SES	\$20 62059	\$71 17710	\$91 79769	13.788	\$284,316.69	\$981,389.85	\$1,265,706.55		
13 GR	GROESBECK	AVG 5	\$20 57888	\$43 56353	\$64 14241	12.324	\$253,614.16	\$536,876.95	\$790,491.11		
14 HM	HAMILTON	AVG 5	\$20 57888	\$43 56353	\$64 14241	47.723	\$982,086.06	\$2,078,982.38	\$3,061,068.43		
15 HT	HAMLET	D10	\$208 13959	\$14 76815	\$222 90774	2.364	\$492,041.99	\$34,911.91	\$526,953.90		
16 HP	HYDE PARK	AVG 5	\$20 57888	\$43 56353	\$64 14241	20.225	\$416,207.92	\$881,072.41	\$1,297,280.33		
17 MA	- MADISONVILLE	AVG 5	\$20 57888	\$43 56353	\$64 14241	18.866	\$388,241.22	\$821,869.57	\$1,210,110.79		
18 LO	LOVELAND	SES	\$20 62059	\$36 70081	\$57 32140	19.042	\$392,657.27	\$698,856.82	\$1,091,514.10		
19 MM	MIAMI	D10	\$215 07758	\$23 58544	\$238 66302	3.755	\$807,616.31	\$88,563.33	\$896,179.64		
20 MF	MILFORD	SES	\$20 62059	\$30 90591	\$51 52650	15.373	\$317,000.33	\$475,116.55	\$792,116.88		
21 MO	MONTGOMERY	SES	\$20 62059	\$32 21870	\$52 83929	14.242	\$293,678.44	\$458,858.73	\$752,537.17		
22 MH	MT. HEALTHY	SES	\$20 62059	\$31 68609	\$52 30668	24.231	\$499,657.52	\$767,785.65	\$1,267,443.16		
23 MW	MT. WASH.	SES	\$20 62059	\$35 15329	\$55 77388	21.024	\$433,527.28	\$739,062.77	\$1,172,590.05		
24 NR	NEW RICHMOND	D10	\$215 07758	\$15 04534	\$230 12292	3.929	\$845,039.81	\$59,113.14	\$904,152.95		
25 NE	NEWTONSVILLE	D10	\$210 40198	\$12 95042	\$223 35240	4.360	\$917,352.63	\$56,463.83	\$973,816.46		
26 NG	N. GREENHILLS	SES	\$20 62059	\$34 16335	\$54 78394	25.950	\$535,104.31	\$886,538.93	\$1,421,643.24		
27 NS	NORTHSIDE	SES	\$20 62059	\$31 41811	\$52 03870	22.226	\$458,313.23	\$698,298.91	\$1,156,612.15		
28 HR	- HARRISON	SORM	\$20 65851	\$37 65898	\$58 31749	10.917	\$225,528.95	\$411,123.08	\$636,652.04		
29 NW	NORWOOD	AVG 5	\$20 57888	\$43 56353	\$64 14241	33.839	\$696,368.84	\$1,474,146.32	\$2,170,515.16		
30 RE	REILY	D10	\$203 75771	\$15 97149	\$219 72920	1.135	\$231,265.00	\$18,127.64	\$249,392.64		
31 RO	ROSSMOYNE	SES	\$20 62059	\$53 26618	\$73 88677	41.355	\$852,764.50	\$2,202,822.87	\$3,055,587.37		
32 GO	- GOSHEN	SORM	\$20 65851	\$39 72133	\$60 37984	7.621	\$157,438.50	\$302,716.26	\$460,154.76		
33 SP	SAYLER PARK	SES	\$19 53530	\$43 15853	\$62 69383	8.948	\$174,801.86	\$386,182.53	\$560,984.39		
34 SM	SEVEN MILE	D10	\$203 75771	\$19 10286	\$222 86057	2.068	\$421,370.94	\$39,504.71	\$460,875.66		
35 SH	SHANDON	D10	\$215 07758	\$14 19133	\$229 26891	4.302	\$925,263.75	\$61,051.10	\$986,314.85		
36 SB	ST. BERNARD	SES	\$20 62059	\$53 15540	\$73 77599	11.638	\$239,982.43	\$618,622.55	\$858,604.97		
37 HW	- HARTWELL	SORM	\$20 65851	\$40 53832	\$61 19683	10.273	\$212,224.83	\$416,450.66	\$628,675.03		
38 TO	TOBASCO	SES	\$20 62059	\$35 56585	\$56 18644	18.693	\$385,408.29	\$664,852.43	\$1,050,293.12		
39 WS	WEST SEVENTH	DGTL	\$20 62059	\$77 49483	\$98 11542	55.643	\$1,177,591.49	\$431,204.83	\$1,608,796.32		
40 WD	WESTWOOD	SES	\$20 62059	\$35 66227	\$56 28286	24.573	\$506,709.76	\$806,328.96	\$1,313,038.72		
41 WB	WILLIAMSBURG	D10	\$208 13959	\$17 51996	\$225 65955	3.262	\$678,931.34	\$57,150.76	\$736,101.45		
42	TOTAL					680,171		\$19,655,718.79	\$30,410,550.19	\$50,075,288.99	
43	SE OFFICE TOTALS				\$535,050.97	\$1,132,651.80	\$1,667,702.77	CBT AVG ANALOG LINE			
44	NUMBER OF OFFICES (Oh				/ 26	/ 26	/ 26	TERM. EST	\$28.90	\$44.72	\$73.62
45	AVG SE OFFICE AMOUNT				\$ 20.57888	\$ 43.56353	\$ 64.14241	NOTED TO PROVIDED			

CBT AVG ANALOG LINE
TERM. COST \$328.90 \$44.72 \$73.62

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2/20/97 3:21 PM

Sources: Cols A & B, L1, - See Tab C, Page 1. (Green, Blue).
 Cols A & B, L2, - See Tab C, Page 2. (Green, Blue).
 Cols A & B, L3, - See Tab C, Page 3. (Green, Blue).
 Cols A & B, L4, - See Tab C, Page 4. (Green, Blue).
 Cols A & B, L5, - See Tab C, Page 5. (Green, Blue).
 Cols A & B, L6, - See Tab C, Page 6. (Green, Blue).
 Cols A & B, L7, - See Tab C, Page 7. (Green, Blue).
 Cols A & B, L8, - See Tab C, Page 8. (Green, Blue).
 Cols A & B, L9, - See Tab C, Page 9. (Green, Blue).
 Cols A & B, L10, - See Tab C, Page 10. (Green, Blue).
 Cols A-C, L11, Assume forward looking technology, used 5E avg, - See L45, Cols A-C.
 Cols A & B, L12, - See Tab C, Page 11. (Green, Blue).
 Cols A-C, L13, Current data unavailable, used 5E average, - See L45, Cols A-C.
 Cols A-C, L14, Assume forward looking technology, used 5E avg, - See L45, Cols A-C.
 Cols A & B, L15, - See Tab C, Page 12. (Green, Blue).
 Cols A-C, L16, Current data unavailable, used 5E average, - See L45, Cols A-C.
 Cols A-C, L17, Current data unavailable, used 5E average, - See L45, Cols A-C.
 Cols A & B, L18, - See Tab C, Page 13. (Green, Blue).
 Cols A & B, L19, - See Tab C, Page 14. (Green, Blue).
 Cols A & B, L20, - See Tab C, Page 15. (Green, Blue).
 Cols A & B, L21, - See Tab C, Page 16. (Green, Blue).
 Cols A & B, L22, - See Tab C, Page 17. (Green, Blue).
 Cols A & B, L23, - See Tab C, Page 18. (Green, Blue).
 Cols A & B, L24, - See Tab C, Page 19. (Green, Blue).
 Cols A & B, L25, - See Tab C, Page 20. (Green, Blue).
 Cols A & B, L26, - See Tab C, Page 21. (Green, Blue).
 Cols A & B, L27, - See Tab C, Page 22. (Green, Blue).
 Cols A & B, L28, - See Tab C, Page 23. (Green, Blue).
 Cols A-C, L29, Assume forward looking technology, used 5E avg, - See L45, Cols A-C.
 Cols A & B, L30 - See Tab C, Page 24. (Green, Blue).
 Cols A & B, L31 - See Tab C, Page 25. (Green, Blue).
 Cols A & B, L32 - See Tab C, Page 26. (Green, Blue).
 Cols A & B, L33 - See Tab C, Page 27. (Green, Blue).
 Cols A & B, L34 - See Tab C, Page 28. (Green, Blue).
 Cols A & B, L35 - See Tab C, Page 29. (Green, Blue).
 Cols A & B, L36 - See Tab C, Page 30. (Green, Blue).
 Cols A & B, L37 - See Tab C, Page 31. (Green, Blue).
 Cols A & B, L38 - See Tab C, Page 32. (Green, Blue).
 Cols A & B, L39 - See Tab C, Page 33. (Green, Blue).
 Cols A & B, L40 - See Tab C, Page 34. (Green, Blue).
 Cols A & B, L41 - See Tab C, Page 35. (Green, Blue).
 Col D, L1 to 41, See Tab D, Pages 1 - 3. (Yellow Column)
 L42 = Sum of L1 to L41.

$$L43, \text{ Cols A - C,} = L1 + (L3 \text{ to } L10) + L12 + L18 + (L20 \text{ to } L23) + (L26 \text{ to } L28) + (L31 \text{ to } L33) + (L36 \text{ to } L40).$$
 L44, Cols A-C, = the number of offices listed in L43. (26 offices).
 L44, Cols E-F, = L42, Cols E-F, / L42, Col D.
 L45 = L43 / L44 (26 offices).

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DESTROY BY SHREDDING

Central Office Line Termination Summary

* MDF Line Investment (Loop)

		Total
Band 1, 2 or 3	\$	0.3647

* This needs to be added to the unbundled loop cost, per the FCC order.

Sources: L1, - See Tab B, Page 1, L19.

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DESTROY BY SHREDDING

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Central Office Line Termination - MDF Line Investment (Loop)		
Description A	Sources B	Total C
1) SCIS Investment	Special Study (Bellcore)	\$ 10.30495
2) SCIS Spare Capacity		\$ -
3) Filled Investment	Line 1 + Line 2	\$ 10.30
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 11.4900
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 12.3184
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col J / 100	\$ 0.3165
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	\$ 0.3249
10) Land Factor	Factor File (1994)	0.0056
11) Land Investment (20jc)	Line 7 * Line 10	\$ 0.0690
12) Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	\$ 0.0013
14) Bldg Factor	Factor File (1994)	0.1316
15) Bldg Investment (10jc)	Line 7 * Line 14	\$ 1.6211
16) Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.28
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	\$ 0.0385
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 14.0085
19) Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 0.3647

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DESTROY BY SHREDDING

Philadelphia Bell Telephone
SWITCHING COST INFORMATION SYSTEM
ESS LINE TERMINATION REPORT

Office: 1100 - MONROEMORE - AVONDALE
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 3.1
Generic: 689.2 - STANDARD
Effective Date: 01 01 1995

S. F. & I. Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line	A1	18.42261
NTS Switching Inv. Per Line	A2	2.19798
Excess Cap. Inv. Per Line	C1	48.68422
Excess CCS Capacity Inv		21.42444
Excess SM EPXC Capacity Inv		27.25977
CS Inv. Per Line	C1	NA
Inv. Per Line CCS	CC-I	21.83708

Analog Line Termination Investment

MDF And Prot. Inv. Per Line	A1	18.42261
NTS Switching Inv. Per Line	A2	2.19798
Excess Cap. Inv. Per Line	C1	48.68422
Excess CCS Capacity Inv		21.42444
Excess SM EPXC Capacity Inv		27.25977
Inv. Per Line CCS	CC-I	21.83708

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line	A1	
NTS Switching Inv. Per Line	A2	
Excess Cap. Inv. Per Line	C1	
Excess CCS Capacity Inv		
Excess SM EPXC Capacity Inv		
Inv. Per Line CCS	CC-I	

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
DMS-11 LINE TERMINATION REPORT

Office CLL1: BETHOWBES1 - BETHEL
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 3.1
Generic: 408.1 - STANDARD
Effective Date: 11 01 1995

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	19.09763
NTS Switching Inv. Per Line (A2):	191.30435
Excess CCS Cap. Inv. Per Line (C):	15.39201

Inv. Per Line CCS	C+I:	9.48900
-------------------	------	---------

Analogy Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	19.09763
NTS Switching Inv. Per Line (A2):	191.30435
Excess CCS Cap. Inv. Per Line (C):	15.39201

Inv. Per Line CCS	C+I:	9.48900
-------------------	------	---------

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	19.09763
NTS Switching Inv. Per Line (A2):	191.30435
Excess CCS Cap. Inv. Per Line (C):	15.39201

Inv. Per Line CCS	C+I:	9.48900
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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S-SSS LINE TERMINATION REPORT

Office: 0111, PHOENIX/ISA - 03 - W D BA
Office Type: End Office
Economic Option: Average

January 04, 1996
Version 0.1
Generic: SSS.2 - STANDARD
Effective Date: 01 01 1996

S, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1	17.88077
NTS Switching Inv. Per Line A2	4.63093
Excess Cap. Inv. Per Line C	39.61287
Excess CCS Capacity Inv.	20.78061
Excess SM EPHC Capacity Inv.	19.83225
CS Inv. Per Line D	NA

Inv. Per Line CCS	28.06273
-------------------	----------

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1	28.72263
NTS Switching Inv. Per Line A2	2.19799
Excess Cap. Inv. Per Line C	40.13464
Excess CCS Capacity Inv.	21.24496
Excess SM EPHC Capacity Inv.	13.38963

Inv. Per Line CCS	28.73312
-------------------	----------

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1	28.72272
NTS Switching Inv. Per Line A2	2.19799
Excess Cap. Inv. Per Line C	24.05750
Excess CCS Capacity Inv.	17.33124
Excess SM EPHC Capacity Inv.	10.22040

Inv. Per Line CCS	7.33312
-------------------	---------

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S. S. LINE TERMINATION REPORT

Service: 0001 BATHINGWATER - BATAVIA-SMO January 11, 1996
 Service Type: CRM - 100 Mile Version 2.1
 Office: 0001 CHGVCHOCDS1 - CHERRY GROVE Generic: SSS.1 - STANDARD
 Office Type: End Office Effective Date: 02 01 1996
 Economic Option: Average

S, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	13.96098
NTS Switching Inv. Per Line (A2):	22.64483
Excess Cap. Inv. Per Line (C):	32.24334
Excess CCS Capacity Inv.	11.83392
Excess SM EPNC Capacity Inv.	20.40942
CS Inv. Per Line (D):	NA
Inv. Per Line CCS (D+I):	23.57251

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	18.42262
NTS Switching Inv. Per Line (A2):	12.23580
Excess Cap. Inv. Per Line (C):	35.36318
Excess CCS Capacity Inv.	14.3070
Excess SM EPNC Capacity Inv.	21.05314
Inv. Per Line CCS (D+I):	29.7444

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	1.52712
NTS Switching Inv. Per Line (A2):	25.40641
Excess Cap. Inv. Per Line (C):	23.68868
Excess CCS Capacity Inv.	34.05252
Excess SM EPNC Capacity Inv.	18.63607
Inv. Per Line CCS (D+I):	3.12001

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Cincinnati Bell Telephone
 SWITCHING COST INFORMATION SYSTEM
 SLS LINE TERMINATION REPORT

Office: 0111, SWITCHING: - PREVIEW
 Office Type: End Office
 Economic Option: Average

January 11, 1996
 Version 3.1
 Generic: SSS 2 - STANDARD
 Effective Date: 01 01 1996

S. F. & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line	Al	14.83437
NTS Switching Inv. Per Line	Al	13.49174
Excess Cap. Inv. Per Line	C	35.85740
Excess CCS Capacity Inv		11.98203
Excess SM EPHC Capacity Inv		23.87537
CS Inv. Per Line	C	NA
Inv. Per Line CCS	C+I	22.19728

Analog Line Termination Investment

MDF And Prot. Inv. Per Line	Al	15.32016
NTS Switching Inv. Per Line	Al	12.17389
Excess Cap. Inv. Per Line	C	34.11683
Excess CCS Capacity Inv		12.61055
Excess SM EPHC Capacity Inv		21.30629
Inv. Per Line CCS	C+I	23.3952

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line	Al	11.82802
NTS Switching Inv. Per Line	Al	82.22428
Excess Cap. Inv. Per Line	C	42.54634
Excess CCS Capacity Inv		32.55575
Excess SM EPHC Capacity Inv		32.98309
Inv. Per Line CCS	C+I	3.63063

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
EIS LINE TERMINATION REPORT

Office Code: CINCINNATI - 00 - 001 PH
Office Type: End Office
Economic Option: Average

January 14, 1996
Version 2.1
Generic: EIS-1 - STANDARD
Effective Date: 01 01 1996

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	16.99510
NTS Switching Inv. Per Line (A2):	8.99193
Excess Cap. Inv. Per Line (C1):	33.11068
Excess CCS Capacity Inv.	11.91600
Excess SM EPHC Capacity Inv.	11.19668
GS Inv. Per Line (D1):	NA
Inv. Per Line CCS (O+I):	26.48739

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	18.42261
NTS Switching Inv. Per Line (A2):	2.19798
Excess Cap. Inv. Per Line (C1):	33.21696
Excess CCS Capacity Inv.	11.42705
Excess SM EPHC Capacity Inv.	20.78971
Inv. Per Line CCS (O+I):	65.75331

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	11.18072
NTS Switching Inv. Per Line (A2):	11.22021
Excess Cap. Inv. Per Line (C1):	30.29735
Excess CCS Capacity Inv.	11.28040
Excess SM EPHC Capacity Inv.	11.61433
Inv. Per Line CCS (O+I):	65.59281

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S 888 LINE TERMINATION REPORT

Remote CLIN: ONCHNCBPHRS - Price Hill
Remote Type: CRM - 100 Mile
Office CLIN: ONCHNCBDS1 - JMWDALE
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 3.1
General: S89.2 - STANDARD
Effective Date: 01.11.1996

S. F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line All	13.10252
NTS Switching Inv. Per Line All	3.78785
Excess Cap. Inv. Per Line All	58.30273
Excess CCS Capacity Inv.	21.73993
Excess SM EPHC Capacity Inv.	36.56281
CS Inv. Per Line	NA
Inv. Per Line CCS	21.99842

Analogue Line Termination Investment

MDF And Prot. Inv. Per Line All	58.42263
NTS Switching Inv. Per Line All	3.78785
Excess Cap. Inv. Per Line All	58.66131
Excess CCS Capacity Inv.	22.05001
Excess SM EPHC Capacity Inv.	36.61133
Inv. Per Line CCS	22.02737

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line All	1.01802
NTS Switching Inv. Per Line All	52.72353
Excess Cap. Inv. Per Line All	40.05989
Excess CCS Capacity Inv.	22.95427
Excess SM EPHC Capacity Inv.	34.09563
Inv. Per Line CCS	5.72329

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S BSS LINE TERMINATION REPORT

Office: 0111, FALTON00000 - CRESTENTVILLE
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 0.1
Generic: 829.2 - STANDARD
Effective Date: 02 01, 1995

S, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1:	15.53025
NTS Switching Inv. Per Line A2:	15.96359
Excess Cap. Inv. Per Line C1:	39.06062
Excess CCS Capacity Inv.	10.76501
Excess SM SPHC Capacity Inv.	23.29561
CS Inv. Per Line C1:	NA

Inv. Per Line CCS	C+I:	17.42180
-------------------	------	----------

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1:	10.42261
NTS Switching Inv. Per Line A2:	2.19798
Excess Cap. Inv. Per Line C1:	38.55810
Excess CCS Capacity Inv.	11.37791
Excess SM SPHC Capacity Inv.	27.18020

Inv. Per Line CCS	C+I:	20.34436
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SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1:	1.61002
NTS Switching Inv. Per Line A2:	81.22431
Excess Cap. Inv. Per Line C1:	41.44295
Excess CCS Capacity Inv.	7.53335
Excess SM SPHC Capacity Inv.	33.58360

Inv. Per Line CCS	C+I:	3.63063
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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
ESS LINE TERMINATION REPORT

Office 1111 EMBLEYNONE - SW - W D WT
Office Type: End Office
Economic Option: Average

January 24, 1996
Version 2.1
Generic: SE9.2 - STANDARD
Effective Date: 02 01 1995

E. P & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1	16.44544
NTS Switching Inv. Per Line A2	11.60793
Excess Cap. Inv. Per Line C1	61.09316
Excess CCS Capacity Inv	33.07905
Excess SM EPNC Capacity Inv.	28.01411
CS Inv Per Line C2	NA
Inv. Per Line CCS C-I	19.84027

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1	18.42261
NTS Switching Inv. Per Line A2	12.13738
Excess Cap. Inv. Per Line C1	63.30873
Excess CCS Capacity Inv	36.36181
Excess SM EPNC Capacity Inv	26.44692
Inv. Per Line CCS C-I	24.50375

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1	11.02302
NTS Switching Inv. Per Line A2	12.02431
Excess Cap. Inv. Per Line C1	61.70208
Excess CCS Capacity Inv	5.09437
Excess SM EPNC Capacity Inv.	39.00843
Inv. Per Line CCS C-I	39.0063

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
ESS LINE TERMINATION REPORT

Remote TOLL: WINSCHWERS - West Chester January 24, 1996
Remote Type: CRM - 100 Mile Version 2.1
Office TOLL: EVENDALE Generic: 889.2 - STANDARD
Office Type: End Office Effective Date: 02/01 1996
Economic Option: Average

E. F. I. Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1) :	13.39583
NTS Switching Inv. Per Line (A2) :	16.60834
Excess Cap. Inv. Per Line (C) :	69.64171
Excess CCS Capacity Inv.	19.73915
Excess SM EPHC Capacity Inv.	19.90256
GS Inv. Per Line (D) :	NA
Inv. Per Line CCS (O+I) :	16.12455

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1) :	18.42261
NTS Switching Inv. Per Line (A2) :	2.21550
Excess Cap. Inv. Per Line (C) :	60.96278
Excess CCS Capacity Inv.	13.79540
Excess SM EPHC Capacity Inv.	17.16739
Inv. Per Line CCS (O+I) :	11.75604

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1) :	1.57302
NTS Switching Inv. Per Line (A2) :	22.74359
Excess Cap. Inv. Per Line (C) :	55.59900
Excess CCS Capacity Inv.	11.39571
Excess SM EPHC Capacity Inv.	46.02239
Inv. Per Line CCS (O+I) :	13.367

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
CMS-10 LINE TERMINATION REPORT

Office: 0111, HMLTCHWTDSC - HAMLET

January 11, 1995

Office Type: End Office

Version 0.1

Economic Option: Average

Generic: 408.1 - STANDARD

Effective Date: 11/01/1995

E, F & I Unit Investment

Weighted Line Termination Investment

WDF And Prot. Inv. Per Line	AL	18.89028
NTS Switching Inv. Per Line	AD	189.24731
Excess CCS Cap. Inv. Per Line	CD	14.76815

Inv. Per Line CCS	(O+I)	9.48900
-------------------	-------	---------

Analog Line Termination Investment

WDF And Prot. Inv. Per Line	AL	18.89028
NTS Switching Inv. Per Line	AD	189.24731
Excess CCS Cap. Inv. Per Line	CD	14.76815

Inv. Per Line CCS	(O+I)	9.48900
-------------------	-------	---------

SLC-96 Mode 1 Line Termination Investment

WDF And Prot. Inv. Per Line	AL	18.89028
NTS Switching Inv. Per Line	AD	189.24731
Excess CCS Cap. Inv. Per Line	CD	14.76815

Inv. Per Line CCS	(O+I)	9.48900
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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S-ESS LINE TERMINATION REPORT

Office: MCI, INDEPENDENT - CLEVELAND
Office Type: End Office
Economic Option: Average

January 11, 1996

Version 3.1

Generic: SE9.3 - STANDARD

Effective Date: 01 01 1996

S, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line	A1	11.27270
NTS Switching Inv. Per Line	A2	31.03168
Excess Cap. Inv. Per Line	C	38.15360
Excess CCS Capacity Inv.		11.25259
Excess SM EPHC Capacity Inv.		26.90600
CS Inv. Per Line	D	NA
Inv. Per Line CCS	C+I	18.10332

Analog Line Termination Investment

MDF And Prot. Inv. Per Line	A1	10.42282
NTS Switching Inv. Per Line	A2	21.19798
Excess Cap. Inv. Per Line	C	36.70081
Excess CCS Capacity Inv.		12.86716
Excess SM EPHC Capacity Inv.		23.93185
Inv. Per Line CCS	C+I	28.54554

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line	A1	1.81802
NTS Switching Inv. Per Line	A2	81.22431
Excess Cap. Inv. Per Line	C	48.69250
Excess CCS Capacity Inv.		12.55178
Excess SM EPHC Capacity Inv.		35734072
Inv. Per Line CCS	C+I	3.9063

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
SVC-10 LINE TERMINATION REPORT

Office CLLI: WMTF0000030 - MIAMI
Office Type: End Office
Economic Option: Average

January 11, 1995
Version 3.1
Generic: 408.1 - STANDARD
Effective Date: 11/01/1995

E. F. & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	19.52202
NTS Switching Inv. Per Line (A2)	199.55556
Excess CCS Cap. Inv. Per Line (C1)	23.58544
Inv. Per Line CCS (C+I)	2.48900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	19.52202
NTS Switching Inv. Per Line (A2)	199.55556
Excess CCS Cap. Inv. Per Line (C1)	23.58544
Inv. Per Line CCS (C+I)	2.48900

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	19.52202
NTS Switching Inv. Per Line (A2)	199.55556
Excess CCS Cap. Inv. Per Line (C1)	23.58544
Inv. Per Line CCS (C+I)	2.48900

CONFIDENTIAL
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PRICE
PROVIDED TO FCC

International Bell Telephone
SWITCHING COST INFORMATION SYSTEM
E EIS LINE TERMINATION REPORT

Office: 0010 WLFROMWDS: WILFORD
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: SS9.2 - STANDARD
Effective Date: 01 11/1995

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1):	17.30068
NTS Switching Inv. Per Line A2):	7.53760
Excess Cap. Inv. Per Line C1):	31.90909
Excess CCS Capacity Inv.	10.12245
Excess SM BPHC Capacity Inv.	21.75654
GS Inv. Per Line D1):	NA
Inv. Per Line CCS C-D):	25.55136

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1):	18.22037
NTS Switching Inv. Per Line A2):	12.19729
Excess Cap. Inv. Per Line C1):	30.90591
Excess CCS Capacity Inv.	10.03651
Excess SM BPHC Capacity Inv.	20.86940
Inv. Per Line CCS C-D):	28.73962

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1):	45.51405
NTS Switching Inv. Per Line A2):	22.2431
Excess Cap. Inv. Per Line C1):	45.75295
Excess CCS Capacity Inv.	21.30845
Excess SM BPHC Capacity Inv.	34.44450
Inv. Per Line CCS C-D):	36.61663

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
SBS LINE TERMINATION REPORT

Office: 0001 MTGCMCHMODS0 - MONTGOMERY
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: SBS.2 - STANDARD
Effective Date: 01 01 1995

E, F & I Unit Investment

Weighted Line Termination Investment	
MDF And Prot. Inv. Per Line (A1)	14.25444
NTS Switching Inv. Per Line (A2)	22.03558
Excess Cap. Inv. Per Line (C1)	35.77277
Excess CCS Capacity Inv.	6.19351
Excess SM EPHC Capacity Inv.	29.57925
GS Inv. Per Line (D1)	NA
Inv. Per Line CCS (O+I)	16.70874

Analog Line Termination Investments	
MDF And Prot. Inv. Per Line (A1)	18.42391
NTS Switching Inv. Per Line (A2)	2.18738
Excess Cap. Inv. Per Line (C1)	32.21870
Excess CCS Capacity Inv.	4.26016
Excess SM EPHC Capacity Inv.	27.95854
Inv. Per Line CCS (O+I)	20.50375

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	2.81493
NTS Switching Inv. Per Line (A2)	81.21411
Excess Cap. Inv. Per Line (C1)	48.57593
Excess CCS Capacity Inv.	10.56126
Excess SM EPHC Capacity Inv.	34.41557
Inv. Per Line CCS (O+I)	138.30633

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PROVIDED TO PUCO

Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
EXCESS LINE TERMINATION REPORT

Office: 0001 MTHCHMMH001 - MT HEALTHY
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 0.1
Scenario: SEP.1 - STANDARD
Effective Date: 02 01 1996

S, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1	17.87737
NTS Switching Inv. Per Line A2	4.79292
Excess Cap. Inv. Per Line C	31.65333
Excess CCS Capacity Inv.	10.35171
Excess SM EPHC Capacity Inv.	20.80162
CS Inv. Per Line D	NA
Inv. Per Line CCS D+I	27.90261

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1	18.42287
NTS Switching Inv. Per Line A2	2.19798
Excess Cap. Inv. Per Line C	31.68609
Excess CCS Capacity Inv.	10.99057
Excess SM EPHC Capacity Inv.	20.69652
Inv. Per Line CCS D+I	28.73962

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1	12.81442
NTS Switching Inv. Per Line A2	4.21442
Excess Cap. Inv. Per Line C	30.58856
Excess CCS Capacity Inv.	7.76154
Excess SM EPHC Capacity Inv.	13.92635
Inv. Per Line CCS D+I	52.453

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
ESS LINE TERMINATION REPORT

Office Code: CINCINNATI - MT. WASHINGTON
Office Type: End Office
Economic Option: Average

January 11, 1986
Version 2.1
Generic: 889.3 - STANDARD
Effective Date: 12 31 1985

2. P & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1:	37.15337
NTS Switching Inv. Per Line A2:	3.23868
Excess Cap. Inv. Per Line C1:	14.57419
Excess CCS Capacity Inv.	13.03555
Excess SM SPHD Capacity Inv.	21.48863
GS Inv. Per Line D1:	NA
Inv. Per Line CCS (C+I):	37.02718

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1:	17.53337
NTS Switching Inv. Per Line A2:	3.23868
Excess Cap. Inv. Per Line C1:	35.15329
Excess CCS Capacity Inv.	13.07266
Excess SM SPHD Capacity Inv.	21.38263
Inv. Per Line CCS (C+I):	23.73962

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1:	17.53337
NTS Switching Inv. Per Line A2:	3.23868
Excess Cap. Inv. Per Line C1:	24.57731
Excess CCS Capacity Inv.	13.07370
Excess SM SPHD Capacity Inv.	22.39360
Inv. Per Line CCS (C+I):	39.9722

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
DMS-11 LINE TERMINATION REPORT

Office 0117, WAMDOHN0001 NEW ROCKMONT
Office Type: End Office
Economic Option: Average

January 01 1996
Version 2.1
Generic: 403.1 - STANDARD
Effective Date: 11 01 1995

S, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	19.52202
NTS Switching Inv. Per Line A2 :	195.55555
Excess CCS Cap. Inv. Per Line C1 :	15.04534
Inv. Per Line CCS C-I :	9.48900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	19.52202
NTS Switching Inv. Per Line A2 :	195.55555
Excess CCS Cap. Inv. Per Line C1 :	15.04534
Inv. Per Line CCS C-I :	9.48900

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	19.52202
NTS Switching Inv. Per Line A2 :	195.55555
Excess CCS Cap. Inv. Per Line C1 :	15.04534
Inv. Per Line CCS C-I :	9.48900

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Lincoln Bell Telephone
SWITCHING COST INFORMATION SYSTEM
CMS-10 LINE TERMINATION REPORT

Office ID: 0000000000 - NEWTONSVILLE
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 409.1 - STANDARD
Effective Date: 11.01.1995

S. F. & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	19.09763
NTS Switching Inv. Per Line (A2)	191.30435
Excess CCS Cap. Inv. Per Line (C)	12.95042
Inv. Per Line CCS (D+I)	9.48900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	19.09763
NTS Switching Inv. Per Line (A2)	191.30435
Excess CCS Cap. Inv. Per Line (C)	12.95042
Inv. Per Line CCS (D+I)	9.48900

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	
NTS Switching Inv. Per Line (A2)	
Excess CCS Cap. Inv. Per Line (C)	
Inv. Per Line CCS (D+I)	

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
EXCESS LINE TERMINATION REPORT

Office Code: GRHLCRNGDSC - N GREENHILLS

January 11, 1996

Office Type: End Office

Version 2.1

Economic Option: Average

Generic: SE9.2 - STANDARD

Effective Date: 02/01/1995

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1	16.62714
NTS Switching Inv. Per Line A2	10.74118
Excess Cap. Inv. Per Line C1	33.04233
Excess CCS Capacity Inv.	11.59727
Excess SM EPHC Capacity Inv.	21.44507
GS Inv. Per Line D1	NA
Inv. Per Line CCS C+D	23.41323

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1	18.42287
NTS Switching Inv. Per Line A2	2.19798
Excess Cap. Inv. Per Line C1	34.16335
Excess CCS Capacity Inv.	12.51038
Excess SM EPHC Capacity Inv.	21.65247
Inv. Per Line CCS C+D	25.77759

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1	1.91443
NTS Switching Inv. Per Line A2	31.2433
Excess Cap. Inv. Per Line C1	23.79614
Excess CCS Capacity Inv.	4.39275
Excess SM EPHC Capacity Inv.	17.73399
Inv. Per Line CCS C+D	46.62493

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S 888 LINE TERMINATION REPORT

Office ELLI, INDEPENDENCE - NS - W 2 HR
Office Type End Office
Economic Option Average

January 24, 1996
Version 2.1
Generic: 889.2 - STANDARD
Effective Date: 02.01.1996

2, 7 & 1 Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line	AL	16.92378
NTS Switching Inv. Per Line	AZ	9.28380
Excess Cap. Inv. Per Line	CI	11.07334
Excess CCS Capacity Inv.		9.04435
Excess SM EPAC Capacity Inv.		23.02900
CS Inv. Per Line	DI	NA

Inv. Per Line CCS	CO+I	14.10666
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Analog Line Termination Investment

MDF And Prot. Inv. Per Line	AL	18.48261
NTS Switching Inv. Per Line	AZ	2.19798
Excess Cap. Inv. Per Line	CI	11.41811
Excess CCS Capacity Inv.		9.44215
Excess SM EPAC Capacity Inv.		22.97596

Inv. Per Line CCS	CO+I	26.13293
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SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line	AL	1.81802
NTS Switching Inv. Per Line	AZ	21.22431
Excess Cap. Inv. Per Line	CI	22.57299
Excess CCS Capacity Inv.		4.00550
Excess SM EPAC Capacity Inv.		23.56749

Inv. Per Line CCS	CO+I	5.52488
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COMMUNICATIONS RESEARCH, INC.

1:28 PM on 1/24/96

With the following information, the user can determine the correct answer choice.

[illegible]

January 11, 1996
Version 2.1
Generic: 889.2 - STANDARD
Effective Date: 12/31/1995

THE UNIVERSITY OF CHICAGO

Required Line Termination Investment

MDT And Prot. Inv. Per Line (A1):	15.98343
NTS Switching Inv. Per Line (A2):	14.03807
Excess Cap. Inv. Per Line (C1):	37.45848
Excess CCS Capacity Inv.	11.66288
Excess SM SPHC Capacity Inv.	25.79560
CS Inv. Per Line (D1):	NA
Inv. Per Line CCS (C+I):	25.34263

Analog Line Termination Investment.

MDF And Proc. Inv. Per Line A1:	18.42261
MTS Switching Inv. Per Line A2:	37.65898
Excess Cap. Inv. Per Line C1:	12.53364
Excess CCS Capacity Inv.	25.12534
Excess SM ERHC Capacity Inv.	29.24444

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	1.81802
NTS Switching Inv. Per Line (A2):	82.74359
Excess Cap. Inv. Per Line (C1):	36.29129
Excess CCS Capacity Inv.	6.59383
Excess SM EPIC Capacity Inv.	29.69747
Inv. Per Line CCS	5.72323

29. 24444

1. 81802

2. 74359

36. 29129

6. 59383

29. 69747

5. 72323

Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
DMS-10 LINE TERMINATION REPORT

Office CCLI, BELVOXREDSU - RELY
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 1.1
Generic: 408.1 - STANDARD
Effective Date: 11 01 1995

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	13.49455
NTS Switching Inv. Per Line A2 :	185.26316
Excess CCS Cap. Inv. Per Line C :	15.97149
Inv. Per Line CCS (C-I) :	9.48900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	13.49455
NTS Switching Inv. Per Line A2 :	185.26316
Excess CCS Cap. Inv. Per Line C :	15.97149
Inv. Per Line CCS (C-I) :	9.48900

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	
NTS Switching Inv. Per Line A2 :	
Excess CCS Cap. Inv. Per Line C :	
Inv. Per Line CCS (C-I) :	

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
ECS LINE TERMINATION REPORT

Office Code: RSMVRCW033 - RB - W O 33
Office Type: End Office
Economic Option: Average

January 24, 1996
Version 3.1
Generic: SE9.0 - STANDARD
Effective Date: 01 01 1996

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	17.01150
NTS Switching Inv. Per Line (A2)	3.31333
Excess Cap. Inv. Per Line (C1)	52.31410
Excess CCS Capacity Inv.	23.15134
Excess SM EPHC Capacity Inv.	29.15275
GS Inv. Per Line (D1)	NA
Inv. Per Line CCS (E-I)	20.14424

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	18.42261
NTS Switching Inv. Per Line (A2)	2.19798
Excess Cap. Inv. Per Line (C1)	53.26618
Excess CCS Capacity Inv.	24.85497
Excess SM EPHC Capacity Inv.	23.41121
Inv. Per Line CCS (E-I)	22.70333

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	1.81482
NTS Switching Inv. Per Line (A2)	42.06302
Excess Cap. Inv. Per Line (C1)	37.43472
Excess CCS Capacity Inv.	3.63063
Excess SM EPHC Capacity Inv.	

Inv. Per Line CCS (E-I)	
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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
SBS LINE TERMINATION REPORT

Remote CILI: BSMWCHSRSC - GOSHEN
Remote Type: CRM - 100 Mile
Office CILI: BSMWCHRODSC - ROSSMONT
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: SE9.2 - STANDARD
Effective Date: 01 01 1995

S. F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	17.69274
NTS Switching Inv. Per Line (A2)	5.77470
Excess Cap. Inv. Per Line (C1)	39.80252
Excess CCS Capacity Inv.	12.47217
Excess SM EPAC Capacity Inv.	27.33034
CS Inv. Per Line (D1)	NA
Inv. Per Line CCS (C+D)	29.21054

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	18.48261
NTS Switching Inv. Per Line (A2)	2.23598
Excess Cap. Inv. Per Line (C1)	39.72133
Excess CCS Capacity Inv.	12.60824
Excess SM EPAC Capacity Inv.	27.11309
Inv. Per Line CCS (C+D)	29.24444

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1)	1.81802
NTS Switching Inv. Per Line (A2)	21.04159
Excess Cap. Inv. Per Line (C1)	41.56833
Excess CCS Capacity Inv.	3.51270
Excess SM EPAC Capacity Inv.	12.05563
Inv. Per Line CCS (C+D)	5.73329

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
LINE TERMINATION REPORT

Office Code: UNCHN080801 - SAWLER PARK
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: SEP-1 - STANDARD
Effective Date: 11/01/1995

E. F. & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	19.52160
NTS Switching Inv. Per Line (A2):	21.98048
Excess Cap. Inv. Per Line (C):	39.99919
Excess CCS Capacity Inv.	13.50079
Excess SM EPHC Capacity Inv.	26.49581
IS Inv. Per Line (D):	NA
Inv. Per Line CCS (C+D):	18.49554

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	17.45309
NTS Switching Inv. Per Line (A2):	2.08239
Excess Cap. Inv. Per Line (C):	43.15353
Excess CCS Capacity Inv.	15.24728
Excess SM EPHC Capacity Inv.	26.91125
Inv. Per Line CCS (C+D):	22.07883

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	1.81802
NTS Switching Inv. Per Line (A2):	82.22431
Excess Cap. Inv. Per Line (C):	30.59421
Excess CCS Capacity Inv.	15.33100
Excess SM EPHC Capacity Inv.	25.26302
Inv. Per Line CCS (C+D):	7.39312

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
LMS-11 LINE TERMINATION REPORT

Office CUI: SYMLOHSMDSO - SEVEN WILE
Office Type: End Office
Economic Option: Average

January 10, 1996
Version 2.1
Generic: 408.1 - STANDARD
Effective Date: 11-01-1995

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	18.49455
NTS Switching Inv. Per Line A2 :	135.26216
Excess CCS Cap. Inv. Per Line C1 :	19.10286
Inv. Per Line CCS C-I :	9.48900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	18.49455
NTS Switching Inv. Per Line A2 :	135.26216
Excess CCS Cap. Inv. Per Line C1 :	19.10286
Inv. Per Line CCS C-I :	9.48900

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A1 :	
NTS Switching Inv. Per Line A2 :	
Excess CCS Cap. Inv. Per Line C1 :	
Inv. Per Line CCS C-I :	

NA
NA
NA
NA
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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
DMS-11 LINE TERMINATION REPORT

Office: 4411 SHANDONSHILL - GRANDON
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 408.1 - STANDARD
Effective Date: 11 01 1995

S, F & J Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line A10:	19.52202
NTS Switching Inv. Per Line A20:	195.55556
Excess CCS Cap. Inv. Per Line C10:	14.19133
Inv. Per Line CCS C-10:	9.43900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line A10:	19.52202
NTS Switching Inv. Per Line A20:	195.55556
Excess CCS Cap. Inv. Per Line C10:	14.19133
Inv. Per Line CCS C-10:	9.43900

SLG-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line A10:	
NTS Switching Inv. Per Line A20:	
Excess CCS Cap. Inv. Per Line C10:	
Inv. Per Line CCS C-10:	

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S SSS LINE TERMINATION REPORT

Office 0111 STERCHES001 - ST BERNARD
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 0.1
Generic: 589.0 - STANDARD
Effective Date: 02 01 1995

B, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	18.42261
NTS Switching Inv. Per Line (A2):	2.19798
Excess Cap. Inv. Per Line (C1):	53.15540
Excess CCS Capacity Inv.	23.38474
Excess SM EPHC Capacity Inv.	29.77066
GS Inv. Per Line (D1):	NA
Inv. Per Line CCS (O+I):	22.32574

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	18.42261
NTS Switching Inv. Per Line (A2):	2.19798
Excess Cap. Inv. Per Line (C1):	53.15540
Excess CCS Capacity Inv.	23.38474
Excess SM EPHC Capacity Inv.	29.77066
Inv. Per Line CCS (O+I):	22.32574

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	NA
NTS Switching Inv. Per Line (A2):	NA
Excess Cap. Inv. Per Line (C1):	NA
Excess CCS Capacity Inv.	NA
Excess SM EPHC Capacity Inv.	NA
Inv. Per Line CCS (O+I):	NA

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
BUS LINE TERMINATION REPORT

Remote CLLI: ONONCHHAR01 - HARTWELL January 11, 1996
Remote Type: CRM - 100 Mile Version 2.1
Office CLLI: STBRCHSS01 - ST BERNARD Generic: 329 1 - STANDARD
Office Type: End Office Effective Date 10 01, 1995
Economic Option: Average

B, F & I Unit Investment

Weighted Line Termination Investment	
MDF And Prot. Inv. Per Line (A1):	19.42261
NTS Switching Inv. Per Line (A2):	2.23590
Excess Cap. Inv. Per Line (C):	40.53832
Excess CCS Capacity Inv.	12.94396
Excess SM EPHC Capacity Inv.	27.59436
GS Inv. Per Line (D):	NA
Inv. Per Line CCS (C+D):	29.24444

Analog Line Termination Investment	
MDF And Prot. Inv. Per Line (A1):	18.42261
NTS Switching Inv. Per Line (A2):	2.23590
Excess Cap. Inv. Per Line (C):	40.53832
Excess CCS Capacity Inv.	12.94396
Excess SM EPHC Capacity Inv.	27.59436
Inv. Per Line CCS (C+D):	29.24444

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	
NTS Switching Inv. Per Line (A2):	
Excess Cap. Inv. Per Line (C):	
Excess CCS Capacity Inv.	
Excess SM EPHC Capacity Inv.	
Inv. Per Line CCS (C+D):	

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
SLS LINE TERMINATION REPORT

Office CLLI: CINCINCHWSD01 - WITH UNIT
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 3.1
Generic: SLS.2 - STANDARD
Effective Date: 02 01 1995

E, F & I Unit Investment

Weighted Line Termination Investment

WCF And Prot. Inv. Per Line (A1)	19.42261
NTS Switching Inv. Per Line (A2)	2.19798
Excess Cap. Inv. Per Line (C1)	77.49483
Excess CCS Capacity Inv.	37.75525
Excess SM EPHC Capacity Inv.	39.73958
CS Inv. Per Line (D)	NA
Inv. Per Line CCS (O+I)	17.69201

Analog Line Termination Investment

WCF And Prot. Inv. Per Line (A1)	19.42261
NTS Switching Inv. Per Line (A2)	2.19798
Excess Cap. Inv. Per Line (C1)	77.49483
Excess CCS Capacity Inv.	37.75525
Excess SM EPHC Capacity Inv.	39.73958
Inv. Per Line CCS (O+I)	17.69201

SLC-96 Mode 1 Line Termination Investment

WCF And Prot. Inv. Per Line (A1)	NA
NTS Switching Inv. Per Line (A2)	NA
Excess Cap. Inv. Per Line (C1)	NA
Excess CCS Capacity Inv.	NA
Excess SM EPHC Capacity Inv.	NA
Inv. Per Line CCS (O+I)	NA

NA
NA
NA
NA
NA
NA
NA
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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
S E S LINE TERMINATION REPORT

Office: CULIN, CINCINNATI 000000 - WESTWOOD
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 3.1
Generic: 5E9.2 - STANDARD
Effective Date: 12 31 1995

E F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	17.25876
NTS Switching Inv. Per Line (A2):	7.73708
Excess Cap. Inv. Per Line (C):	35.18655
Excess CCS Capacity Inv.	11.85840
Excess SM EPAC Capacity Inv.	23.32815
GS Inv. Per Line (D):	NA
Inv. Per Line CCS (C+I):	27.06666

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	10.42261
NTS Switching Inv. Per Line (A2):	2.19739
Excess Cap. Inv. Per Line (C):	35.66227
Excess CCS Capacity Inv.	12.16304
Excess SM EPAC Capacity Inv.	23.49923
Inv. Per Line CCS (C+I):	23.30141

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	4.81802
NTS Switching Inv. Per Line (A2):	21.72431
Excess Cap. Inv. Per Line (C):	28.87517
Excess CCS Capacity Inv.	7.82673
Excess SM EPAC Capacity Inv.	21.05838
Inv. Per Line CCS (C+I):	59.48251

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
CMS-10 LINE TERMINATION REPORT

Office CDD: WLEBCHW000 - WILLIAMSBURG
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 408.1 - STANDARD
Effective Date: 11.01.1995

E, F & I Unit Investment

Weighted Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	13.39003
NTS Switching Inv. Per Line (A2):	139.24731
Excess CCS Cap. Inv. Per Line (C1):	17.51996
Inv. Per Line CCS C-I:	9.48900

Analog Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	13.39003
NTS Switching Inv. Per Line (A2):	139.24731
Excess CCS Cap. Inv. Per Line (C1):	17.51996
Inv. Per Line CCS C-I:	9.48900

SLC-96 Mode 1 Line Termination Investment

MDF And Prot. Inv. Per Line (A1):	
NTS Switching Inv. Per Line (A2):	
Excess CCS Cap. Inv. Per Line (C1):	
Inv. Per Line CCS C-I:	

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Direct Inward Dialing Feature

Switching Cost Summary

Direct Inward Dialing (Switch Side - Port) S 16.8483 1

Direct Inward Dialing (Line Side - Loop)

S 0.3647

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Sources: Line 1, - See Tab D, Page 1, Line 19, minus Tab B, Summary, Line 1.
Line 2, - See Tab B, Summary, Line 1.

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2/20/97 3:21 PM

Direct Inward Dialing Cost per Trunk		
Description A	Sources B	Total C
1) SCIS Investment	See Tab D, Page 5 (Yellow)	\$ 484.06046
2) SCIS Spare Capacity	Tab D, Page 2 (Yellow) minus Tab D, Page 5 (Yellow)	\$ 2.32512
3) Filled Investment	Line 1 + Line 2	\$ 486.38558
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 542.3199
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 581.4212
8) Annual Charge Factor (377c)	See Tab E, Page 1, Col J / 100	0.3165
9) Monthly Cost (377c)	Line 7 * Line 8 / 12	15.4377
10) Land Factor	Factor File (1994)	0.0056
11) Land Investment (20jc)	Line 7 * Line 10	\$ 3.2560
12) Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13) Monthly Cost (20jc)	Line 11 * Line 12 / 12	0.4660
14) Bldg Factor	Factor File (1994)	0.1316
15) Bldg Investment (10jc)	Line 7 * Line 14	\$ 76.5150
16) Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17) Monthly Cost (10jc)	Line 15 * Line 16 / 12	1.6153
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 661.1922
19) Total Monthly Cost	Line 9 + Line 13 + Line 17	\$ 17.2130

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2/27/97 9:22 AM

CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Report: Average

Calculation: Avg. E,F&I

State: CBT

Input File: (untitled)

Date: 05/23/96 08:22

Technology: Weighted

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	0.22754	No Inv.	3.64067		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	2.87676	No Inv.	No Inv.		
D. Minimum per Li	No Inv.	No Inv.	No Inv.		
E. Hardware	479.64061	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Offi	482.74491	No Inv.	3.64067	NA	NA

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TOTAL Investment: per Trunk 486.38558

per Office NA

SESS Technology Mix: 95.00 %

DMS-10 Technology Mix: 5.00 %

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Report: Average

Calculation: Avg. E,F&I
State: CBT Input File: (untitled) Date: 05/23/96 08:22
Technology: SESS (SE CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Starte	No Inv.	No Inv.	No Inv.		
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	3.02817	No Inv.	No Inv.		
D. Minimum per Li	No Inv.	No Inv.	No Inv.		
E. Hardware	462.55041	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Offi	465.57858	No Inv.	No Inv.	NA	NA

TOTAL Investment: per Trunk 465.57858

per

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Report: Average

Calculation: Avg. E,F&I

State: CBT

Input File: (untitled)

Date: 05/23/96 08:22

Technology: DMS-10 (DMS10 :01-26-96 (408.1, 11-95))

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	4.55083	No Inv.	72.81331		BLIC
B. CCS	No Inv.	No Inv.	No Inv.		
C. Call	No Inv.	No Inv.	No Inv.		
D. Minimum per Li	No Inv.	No Inv.	No Inv.		
E. Hardware	804.35442	No Inv.	No Inv.		
F. Memory	No Inv.	No Inv.	No Inv.		
G. SSP Octet	No Inv.	No Inv.	No Inv.		
H. Total End Offi	808.90525	No Inv.	72.81331	NA	NA

TOTAL Investment:

per Trunk 881.71857

per Office

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: (untitled)

Date: 05/23/96 08:22

Technology: Weighted

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Starte	1.54309			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	2.87676			No Inv.	No Inv.
D. Minimum per Li	No Inv.			No Inv.	No Inv.
E. Hardware	479.64061			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	484.06046	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Trunk 484.06046

per Office

SESS Technology Mix: 95.00 %

DMS-10 Technology Mix: 5.00 %

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: (untitled)

Date: 05/23/96 08:22

Technology: SESS

(5E CBT :01-26-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Starte	No Inv.			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	3.02817			No Inv.	No Inv.
D. Minimum per Li	No Inv.			No Inv.	No Inv.
E. Hardware	462.55041			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	465.57858	NA	NA	No Inv.	No Inv.

TOTAL Investment:

per Trunk 465.57858

per Office No Inv

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

Report: Marginal Direct; Marginal

Calculation: Marg-Direct E,F&I

State: CBT

Input File: (untitled)

Date: 05/23/96 08:22

Technology: DMS-10 (DMS10 :01-26-96 (408.1, 11-95))

Investment Category	Variable	Direct Fixed per Trunk	Shared Fixed per Trunk	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	30.86184			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per LI	No Inv.			No Inv.	No Inv.
E. Hardware	804.35442			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Offi	835.21626	NA	NA	No Inv.	No Inv.

TOTAL Investment:

per Trunk 835.21626

per Office No Inv.

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CINCINNATI BELL TELEPHONE
SCIS/IN Features 2.1
Feature: 22. Direct Inward Dialing

PAGE

Calculation: Avg. E,F&I

State: CBT

Input File: (untitled)

Date: 05/23/96 08:22

I. at #	Value	Description
IP2	12.10000	BH DID calls per Trunk
IP3	0.00000	Trunks are: Analog=0; Digital=1
IP4	5.00000	Trunks per Group

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Annual Charge Development*Ohio - 377C TELRIC*

SVC LIFE	BOOK DEPN (A)	POST TAX INC (B)	INC TAX (C)	PROP TAX (D)	TOTAL CAPITAL COSTS (E)=(A..D)	MTCE (F)	NEW COSTS ASSOC. WITH UNBUNDLED ELEMENTS (G)	DIR ADM EXP (I)	TOTAL DIRECTLY ASSIGNED EXPENSE (Incl GRT) (J)=(E..I)* 1.0499
12 .	8.45 .	6.06 .	2.48 .	3.23 .	20.21 .	5.29	0.51 .	4.14 .	31.65 .

Source:

LI - 1997 Annual Charge Development (Acct. 2212) 1/19/97 .

LI (Col. F) - 1996 Annual Charge Development, MTCE, P5, Ln. C239

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2/20/97 3 12 PM

**LISTINGS, INTERCEPT AND LOCAL
OPERATOR COSTS
(TELRIC)**

MCI Depo.
Ex No 26
CDR 11-26-97

SUMMARY OF LISTING & OPERATOR PORT RELATED COSTS

1	Directory & Listing Cost per Line per Month	\$0.39
2	Intercept Cost per Line per Month	\$0.03
3	Local Operator Cost per Line Per Month	\$0.04

SOURCE:

L. 1 Listing Cost - Line 29
L. 2 Intercept Cost - Line 1
L. 3 Operator Cost - Line 10

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DIRECTORY / LISTING MONTHLY COST

		SOURCE:
1	White Pages Listing Maintenance	\$492,650 1996 Projected Cost - Directory Svcs.
Listing Services System (LSS) Costs:		
2	Maintenance (Project 6A1447)	\$19,500 1996 Projected Cost - Contract Admin.
3	Support (Project 6A1631)	\$3,001 1996 Projected Cost - Contract Admin.
4	Directory Personnel Computer, Furniture, & Building Costs	\$59,093 LISTING PERSONNEL COST - L.13
5	Total Listing Maintenance Cost	\$574,244 Sum L.1 through L.4
6	Cincinnati Book Non-Charged Listings	542,438 1996 Published Listings - Directory Svcs.
7	Additional Listings	47,410 1996 Published Listings - Directory Svcs.
8	Non-Published Listings	167,861 1996 Published Listings - Directory Svcs.
9	CBD's Community Book Listings	378,855 1996 Published Listings - Directory Svcs.
10	Total Listings	1,136,564 L.6 + L.7 + L.8 + L.9
11	Cincinnati Book Listing Maintenance Cost for Non-Charged Listings	\$274,064 L.5 * (L.6 / L.10)
Cincinnati Book Costs Driven by Listings:		
12	Book Closing Costs	\$206,901 1996 Projected Cost - Directory Svcs.
13	Manufacturing & Printing	\$2,750,000 1996 Projected Cost - Directory Svcs.
14	Freight, Warehousing, Drayage	\$157,500 1996 Projected Cost - Directory Svcs.
15	Photo Composition	\$68,250 1996 Projected Cost - Directory Svcs.
16		\$3,182,651 L.12 + L.13 + L.14 + L.15
17	% Non-Charged Listings to Total	91.96% L.6 / (L.6 + L.7)
18	Costs Assigned to Non-Charged Listings	\$2,926,840 L.16 * L.17
Other Cincinnati Book Costs:		
19	Customer Guide Information	\$23,308 1996 Projected Cost - Directory Svcs.
20	Zip Codes	\$1,698 1996 Projected Cost - Directory Svcs.
21	Close Dates	1,770 1996 Projected Cost - Directory Svcs.
22	White Page Cover	\$14,564 1996 Projected Cost - Directory Svcs.
23	Initial Delivery	\$255,000 1996 Projected Cost - Directory Svcs.
24	Secondary Delivery	\$467,500 1996 Projected Cost - Directory Svcs.
25	Distribution Costs from CBIS	\$165,500 1996 Projected Cost - Directory Svcs.
26	Total	\$929,340 Sum Lines 19 through 25
27	Non-Charged Listings Cost	\$4,130,245 L.11 + L.18 + L.26
28	Access Lines	890,093 ACCESS LINE QUANTITIES - Line 7
29	Monthly Cost per Line	\$0.39 L. 27 / L. 28 / 12

LOCAL OPERATOR ASSISTANCE MONTHLY COST

<u>Call Type</u>	<u>Attempts</u>	<u>Source</u>
1 No Class Charge	82,825	Operator & Directory Services - April, 1995 through December, 1995 annualized for all call attempt information.
2 No AMA	60,613	
3 Busy Line Verify Non Rev	50,496	
4 Emer Interrupt Non Rev	9,258	
5 0- No Attempt	1,152,718	
6 Total	1,355,910	
7 Operator Cost per Call	\$0.336	Operator & Directory Services
8 Total Annual Cost	\$455,586	Line 6 / Line 7
9 Total Access Lines	890,506	ACCESS LINE QUANTITIES - Line 15
10 Monthly Cost / Access Line	\$0.04	Line 8 / Line 9 / 12

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INTERCEPT COST PER LINE

1 Intercept Cost per Line perr Month

\$0.0335

SOURCE:

Basic Intercept Cost Study, Page 1, L.14 + Page 3, L.14

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Directory Services Furniture, Computer, & Building Costs

1 Furniture Cost per Person	\$5,300
2 Annual Charge Factor	0.2169
3 Number of Directory Services Personnel	10.0
4 Total Annual Furniture Costs	\$11,496
5 Computer & Telephone Equipment per Person	\$3,450
6 Annual Charge Factor	0.4592
7 Total Annual Computer & Telephone Costs	\$15,842
8 Floor Space per Person (Sq. Feet)	\$45
9 Rental Cost per Square Foot per Year	\$14.90
10 Operating Cost per Square Foot per Year	\$7.00
11 Total Floor Space Cost per Person	\$3,176
12 Total Annual Building Costs	\$31,755
13 Total Computer, Furniture, & Building Costs	\$59,093

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SOURCES:

- 1 CBT Real Estate Management
- 2 Service Cost Annual Charge Factor
- 3 Directory Services
- 4 $L.1 * L.2 * L.3$
- 5 CBT Corporate Telecommunications
- 6 Service Cost Annual Charge Factor
- 7 $L.3 * L.5 * L.6$
- 8 CBT Real Estate Management
- 9 CBT Real Estate Management
- 10 CBT Real Estate Management
- 11 $L.8 * (L.9 + L.10)$
- 12 $L.3 * L.11$
- 13 $L.4 + L.7 + L.12$

ACCESS LINE QUANTITIES

<u>Category</u>		<u>In-Service Quantity (12/31/95)</u>	<u>Source</u>
1	Residence Access Lines	644,630	AR118100: Line 8
2	Business Access Lines	153,743	AR118100: Line 27 - Line 19
3	PBX Trunks	25,862	AR118100: Line 29 + Line 30 + Line 31
4	DID Trunks	11,054	AR118200: Line 20
5	AIOD Trunks	19	AR118200: Line 21 + Line 22
6	Centrex Lines	54,785	AR118100: Line 33 + Line 35 + Line 37
7	Total Residence & Business	890,093	Lines 1 + 2 + 3 + 4 + 5 + 6
8	Public Coin	8,301	AR118100: Line 9
9	Semi-Public Coin	1,164	AR118100: Line 10
10	Total Coin	9,465	Sum of Line 8 + Line 9
11	Coinless	1,015	AR118100: Line 11
12	COCOTS Message	649	AR118100: Line 12
13	COCOTS Flat	338	AR118100: Line 13
14	Total Lines	901,560	Lines 7 + 10 + 11 + 12 + 13
15	Total Lines Less Incoming Only	890,506	Line 14 - Line 4
16	Percentage Residence of Total Business Excluding PBX and Coin	75.6%	Line 1 / (Line 1 + Line 2 + Line 6)

NOTES:

All sources refer to "TELEPHONE AND LINES IN SERVICE WIRE CENTER
MOVEMENT REPORT"

Line 15 is developed to identify lines that can contact the local operator.

CALL TYPE DEFINITIONS

NO CLASS CHARGE:

Calls which have left the operator's position with no billing class indicated.
Calling and called numbers are present.

NO AMA:

Calls on which no AMA billing is applicable; the no charge (or no AMA) field was populated on the record. Calling and called numbers are present.

BUSY LINE VERIFICATION NON REVENUE:

Request for an operator to verify that a number is busy in which there no verification charge is applied.

EMERGENCY INTERRUPT NON REVENUE:

Request for the operator to verify and interrupt a busy line on an emergency basis, no charge is applicable.

0- NO ATTEMPT:

Local and Toll call assistance such as rate quotation, area code requests, dialing instructions, emergency number information, etc.

For Busy Line Verification Non Revenue and Emergency Interrupt Non Revenue, all call attempts were used because these are only available to our local customers.

For No Class Charge and No AMA a local percentage of call attempts was used because these calls can come from anywhere.

For 0- No Attempt it was assumed that these calls only come from our local customers therefore, all call attempts were used.

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**LOCAL SWITCHING USAGE
(TELRIC)**

MCI Depo.
EX. No 27
CDR 11-26-97

Unbundled Local Switching

	A	B	C	D	E	F	
	Messages			Minutes			
FGD - Total	35,194,768.684	23.9%		132,851,360.341	24.7%	3.775	1
Local - Total	112,039,010.145	76.1%		405,182,769.948	75.3%	3.616	2
Avg.	147,233,778.829	100.0%		538,034,130.289	100.0%	3.654	3
Local - Interoffice	81,433,999.716			291,946,551.933		3.586	4
Setup FGD \$	0.001760		Duration FGD \$	0.001949			5
Local \$	0.003872		Local \$	0.003758			6
	2			2			7
\$	0.001936		\$	0.001879			8
Avg. \$	0.001894		\$	0.001896			9
End Office Costs							
End Office Per Minute (w/ tt)						\$ 0.002415	10
Common Transport - Interoffice		Setup		Duration			
Tandem		0.000703		0.000482			11
Facilities		0.000104		0.000343			12
Terminations		0.000201		0.000626			13
		0.001008		0.001451			14
Common Transport MOU						\$ 0.001732	15
Power & Common Equipment Factor						1.0721	16
End Office Per Minute (w/ tt)						0.003438	17
Common Transport MOU						0.001857	18

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2/28/97 @ 12:35 PM

Unbundled Local Switching

Sources: L1, Cols A, D, & F, - See Tab A, Pg 1.

L1, Col B. = L1, Col A. / L3, Col A.

L1, Col E. = L1, Col D. / L3, Col D.

L2, Cols A, D, & F, - See Tab B, Pg 1.

L2, Col B. = L2, Col A. / L3, Col A.

L2, Col E. = L2, Col D. / L3, Col D.

L3, Cols A to E, = L1 + L2, Cols A to E.

L3, Col F. = L3, Col D. / L3, Col A.

L4, Cols A, D, & F, - See Tab B, Pg 1.

L5, Col A. - See Tab A, Pg 2.

L5, Col D. - See Tab A, Pg 3.

L6, Col A. - See Tab B, Pg 2.

L6, Col D. - See Tab B, Pg 3.

L7, - Divide by 2 because both end offices are included in the cost.

L8, = L6 / 2.

L9, Col A. = (L1, Col B * L5, Col A) + (L2, Col B * L8, Col A).

L9, Col D. = (L1, Col E * L5, Col D) + (L2, Col E * L8, Col D).

L10, = ((L9, Col D * L3, Col F) * L9, Col A) / L3, Col F.

L11 to L13, Col C, - See Tab B, Pg 2.

L11 to L13, Col D, - See Tab B, Pg 3.

L14, = L11 + L12 + L13.

L15, = ((L14, Col D * L4, Col F) + L14, Col C) / L4, Col F.

L16, - See Factor File for (377c) Power & Common Equipment.

L17, = (L10 * L16) + Tab C, Pg 1, L5.

L18, = L15 * L16.

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LOCAVG
VER : 1.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 2

TRAFFIC SENSITIVE UNIT COST - SETUP RELATED

DISTANCE BAND	RP	TOTAL	-----SWITCHING-----			-----TRUNKING-----	
			EO	TDM	MEAS	FAC	TERM
0.0-9999.9	08-07	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041
	AVG	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041
ALL	08-07	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041
	AVG	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LDCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 3

TRAFFIC SENSITIVE UNIT COST - DURATION RELATED

DISTANCE BAND	RP	TOTAL	SWITCHING			TRUNKING	
			EO	TM	MEAS	FAC	TERM
0.0-9999.9	08-07	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821
	AVG	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821
ALL	08-07	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821
	AVG	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 1

ANNUALIZED INCREMENTAL MESSAGES AND MINUTES
BY DISTANCE BAND BY RATE PERIOD

DISTANCE BAND	RATE PERIOD	MESSAGES	TOTAL MINUTES	AVG MIN/MESG
0.0-9999.9	08-07	35194768.684	132851360.341	3.775
	TOTAL	35194768.684	132851360.341	3.775
ALL	08-07	35194768.684	132851360.341	3.775
	TOTAL	35194768.684	132851360.341	3.775

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NETWORK COST ANALYSIS TOOL (NCAT)
DIRECT & NONDIRECT - . TT

DB : LOCAVG
VER : 1.1
CALC TYPE: AVERAGE
STUDY: AADIRECT, NONDIR

RUN DATE: 07-FEB-97
TIME : 10:02:00
PAGE : 1

ANNUALIZED INCREMENTAL MESSAGES AND MINUTES
BY DISTANCE BAND BY RATE PERIOD

DISTANCE BAND	RATE PERIOD	MESSAGES	TOTAL MINUTES	AVG MIN./MSG
IAO	08-07	30625010.429	113236218.015	3.698
	TOTAL	30625010.429	113236218.015	3.698
0.0-9999.9	08-07	81433999.716	291946551.933	3.586
	TOTAL	81433999.716	291946551.933	3.586
ALL	08-07	112039010.145	405182769.948	3.616
	TOTAL	112039010.145	405182769.948	3.616

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NETWORK COST ANALYSIS TOOL (NCAT)
DIRECT & NONDIRECT - W/ TT

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: AADIRECT, AANONDIR

RUN DATE: 07-FEB-97
TIME : 10:02:00
PAGE : 2

TRAFFIC SENSITIVE UNIT COST - SETUP RELATED

DISTANCE BAND	RP	TOTAL	-----SWITCHING-----			-----TRUNKING-----		SS7
			EO	TDM	MEAS	FAC	TERM	
LAD	08-07	0.002478	0.002478	0.000000	0.000000	0.000000	0.000000	0.000000
	AVG	0.002478	0.002478	0.000000	0.000000	0.000000	0.000000	0.000000
0.0-9999.9	08-07	0.005404	0.004396	0.000703	0.000000	0.000104	0.000201	0.000000
	AVG	0.005404	0.004396	0.000703	0.000000	0.000104	0.000201	0.000000
ALL	08-07	0.004604	0.003872	0.000510	0.000000	0.000075	0.000146	0.000000
	AVG	0.004604	0.003872	0.000510	0.000000	0.000075	0.000146	0.000000

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NETWORK COST ANALYSIS TOOL (NCAT)
DIRECT & NONDIRECT - W/ TT

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: AADIRECT, AANONDIR

RUN DATE: 07-FEB-97
TIME : 10:02:00
PAGE : 3

TRAFFIC SENSITIVE UNIT COST - DURATION RELATED

DISTANCE BAND	RP	TOTAL	-----SWITCHING-----			-----TRUNKING-----	
			EO	TDM	MEAS	FAC	TERM
IAO	08-07	0.003193	0.003193	0.000000	0.000000	0.000000	0.000000
	AVG	0.003193	0.003193	0.000000	0.000000	0.000000	0.000000
0.0-9999.9	08-07	0.005427	0.003977	0.000482	0.000000	0.000343	0.000626
	AVG	0.005427	0.003977	0.000482	0.000000	0.000343	0.000626
ALL	08-07	0.004802	0.003758	0.000347	0.000000	0.000247	0.000450
	AVG	0.004802	0.003758	0.000347	0.000000	0.000247	0.000450

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Measurement Costs

	<u>Cost</u>
1 CBIS Cost Per Message	\$0.003219
2 AMA Storage Cost Per Message	\$0.000011
3 Total	\$0.003230
4 Minutes Per Message	3.8
5 Total Measurement Cost Per Minute	\$0.000849

Sources:

- L1 Page 2, Line 5 ·
- L2 Page 3, Line 19 ·
- L3 L1 + L2 ·
- L4 Tab A, Page 1.
- L5 L3 / L4 ·

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2/28/97 @ 12 41 PM

Measurement Costs

	Cost
1 Total MPS Cost	\$ 328,359.
2 Total MPS Machine Cost	\$ 74,400.
3 Total MPS Cost/MPS Machine Cost	4.41
4 Cost per Message (based on machine cost)	\$ 0.00073
5 Total Cost per Message	\$0.003219

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Sources:

- L1 Sum of DS1 (highlighted) -
- L2 Sum of DS2, DS3, DS4 (highlighted - CBT Cost) -
- L3 L1/L2 -
- L4 Sum of DS2, DS3, DS4 (highlighted - Cost/AMA) / 3.
- L5 L3*L4 -

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2/28/97 @ 12:35 PM

AMA Storage Investment per Toll Call		
Description A	Sources B	Total C
1) SCIS Investment	DS5	\$ 0.007800*
2) SCIS Spare Capacity		\$ -
3) Filled Investment	Line 1 + Line 2	\$ 0.007800*
4) Telco Engineering Factor	Network Engineering	11.5%
5) Installed Investment	Line 3 * (1 + Line 4)	\$ 0.008697*
6) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721*
7) Total Digital Switch Investment (377c)	Line 5 * Line 6	\$ 0.009324*
8) Annual Charge Factor (377c)	See Tab C, Page 4, Col J / 100	0.3165*
9) Cost (377c)	Line 7 * Line 8	\$ 0.002951*
10) Land Factor	Factor File (1994)	0.0056*
11) Land Investment (20jc)	Line 7 * Line 10	\$ 0.000032*
12) Annual Charge Factor (20jc)	1996 TELRIC Annual Charge %, Intrastate Ohio, 1/19/97	0.2232*
13) Cost (20jc)	Line 11 * Line 12	\$ 0.000012*
14) Bldg Factor	Factor File (1994)	0.1316*
15) Bldg Investment (10jc)	Line 7 * Line 14	\$ 0.001227*
16) Annual Charge Factor (10jc)	1996 TELRIC Annual Charge %, Intrastate Ohio, 1/19/97	0.2847*
17) Cost (10jc)	Line 15 * Line 16	\$ 0.000349*
18) Total Investment	Line 7 + Line 11 + Line 15	\$ 0.010603*
19) Total Cost	(Line 9 + Line 13 + Line 17) 312	\$ 0.000011*

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Annual Charge Development

Ohio - 377C TELRIC

SVC LIFE	BOOK DEPN (A)	POST TAX INC (B)	INC TAX (C)	PROP TAX (D)	TOTAL CAPITAL COSTS (E)=(A..D)	MTCE (F)	MKTG & SALES EXPENSE (G)	DIR ADM EXP (I)	TOTAL DIRECTLY ASSIGNED EXPENSE (Incl GRT) (H)=(E..I) 1.0495
12 *	8.45 *	6.06 *	2.48 *	3.23 *	20.21 *	5.29	0.51 *	4.14 *	11.65 *

Source:

L1 - 1997 Annual Charge Development (Acct. 2212) 1/19/97 *

L1 (Col. F) - 1996 Annual Charge Development, MTCE, P5, Ln. C239

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2/28/97 12:35 PM

System: CIA
File: SM120F01
Date/Time: 12/16/96 16.55.24

Cincinnati Bell Telephone
SM120 - YEAR TO DATE COSTS BY PTC
YEAR-TO-DATE: DECEMBER 1995 -- NOVEMBER 1996

Page: 18

* FINGER: Don Cheek 102-330 397-5410 MPS

DESCRIPTION

130 AUTO MSG ACCTG CNTRL CTR (AMACC)
133 CHOS PROCESSING FOR GEN TELE/RA056
140 MANUAL MESSAGE DATA ENTRY
145 AUTOMATIC MESSAGE DATA ENTRY
148 EIGHT HUNDRED TRANSMISSION SYSTEM
170 MESSAGE FILE PROCESSING
177 MESSAGE FILE - EHR/MPS
178 DTUNS
179 TOLL AND WATS TAPE PROCESSING
179 MESSAGE PROC SYSTEM - GUIDES
184 PRODUCTION PTC FOR BILL EDIT/PRINT
204 MONTHLY FRAUD ACTIVITY RPT #5140087
207 ESMAP
211 MPS FOR CABS
211 VM 10 REQUEST 32050410
211 STARGATE-MTHLY CALLING CARD STUDY
211 MTHLY COUNT OF MESSAGES BY WIRE CNT
212 OHIO 5% TAX ON INTRAST/INTERST SERV
219 BLANKET P.O. - BUSINESS SALES
219 BLANKET P.O. - INFO SYST
219 CLS TRACKING - RELY TO OXFORD
219 MPS RELEASE TESTING
219 TCM MPS
219 BASE MPS
219 DISC MPS
219 TECH MPS
219 INTRALATA TOLL (ITAC)
219 CENTRALIZED CREDIT & REFUND 3150061
219 DIV OF REV - ALL PURPOSE STAT
219 MINUTES OF USE STUDY ANNUAL
219 DIVISION OF REVENUES - COMPTROLLER
219 MECH. OF SECURITY FILES
219 ATTC INTEREST UNBILLED WATS #2040081
219 WATS ANALYSIS
219 WATS MESSAGE REPORT
219 WATS MESSAGE DETAIL
219 WATS INF SYSTEM
219 MESSAGE INVESTIGATION SYSTEM (CTI)
219 MECH-CALL ANNOYANCE BUREAU #2040069
219 3RD NUMBER & CREDIT CARD STUDY

9512	9601	9602	9603	9604	9605	9606	9607	9608	9609	9610	9611
32	31	29	30	28	42	40	33	40	25	46	0
502	598	554	579	609	668	630	578	700	537	618	9
4843	4864	4710	5078	5145	5542	5610	5814	5663	3665	3919	470
0	0	0	0	0	0	0	0	0	0	0	3129
48467	52134	42476	45110	64924	44604	40261	47543	39306	37274	48562	37697
6406	6889	7464	7220	7394	7563	7199	7135	6260	4828	6300	5281
30	42	28	29	40	32	29	41	32	31	51	26
6	6	6	6	6	6	6	6	6	6	6	6
2347	2481	2240	2381	2326	2542	2276	2490	2522	2372	2563	2134
139481	126431	116443	133714	130699	129790	142168	137442	137437	122701	134124	103795
23	18	17	14	11	15	15	12	153	7	43	3
3	3	2	3	2	3	3	3	3	2	3	2
257	173	295	323	172	187	161	413	706	448	673	574
5	11	5	5	5	5	5	5	5	3	3	2
10	10	10	10	10	10	10	10	10	10	10	10
0	0	0	0	0	0	0	0	0	0	0	0
2	6	2	7	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
5	5	5	5	5	5	5	5	5	5	5	5
42	41	37	39	46	42	42	42	49	50	43	34
31744	28929	35152	35280	37435	25108	28789	25116	32041	27920	31503	24791
37319	24874	12973	15297	21902	23773	38729	17969	5688	2692	2874	0
38183	46854	30053	46232	40405	48124	34304	22011	8027	6036	879	0
460	1638	2131	2895	1485	2080	1053	440	657	1216	538	0
25943	24790	20042	16204	19758	21319	26532	27796	471	618	4	0
174	139	124	126	184	164	139	140	181	149	182	122
9	11	9	10	10	11	10	10	11	11	13	3
132	113	110	137	141	96	25	23	8	4	4	4
173	147	71	132	133	135	74	128	130	69	74	56
173	139	123	135	111	11	10	10	10	10	12	8
14	14	12	12	12	14	13	14	16	15	19	13
6	6	5	6	6	6	6	6	7	2	2	1
1	2	1	1	1	1	1	1	1	1	1	1
22	22	21	22	22	22	22	22	22	24	22	21
20	20	17	20	19	21	20	20	17	17	17	15
3	4	3	3	3	3	3	3	3	1	2	0
12617	10484	11327	10710	9458	10534	10507	9334	11741	8975	10011	8833
159	158	196	188	191	204	303	186	203	167	246	124
92	80	78	79	82	86	75	75	78	74	81	47

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9,14

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Cost Per Message for March 1996

Job Name	CBT Cost	Msg Count	Cost/OSPS	Cost/Rec. Collect	Cost/AMA
AA38800Y	\$ 94.90	2,408,704	0.00003940		
AA39000Y	\$ 298.29	1,923,839		0.00015505	
AA39900Y	\$ 9,605.89	117,628,444			0.00008166
AA41000Y	\$ 5,172.62	112,771,871	0.00004587	0.00004587	0.00004587
AA42000Y	\$ 2,486.59	20,290,334	0.00012255	0.00012255	0.00012255
AA44000Y	\$ 147.05	5,099,836	0.00002883	0.00002883	0.00002883
AA45000Y	\$ 620.89	51,483,526	0.00001206	0.00001206	0.00001206
AA46100Y	\$ 939.31	4,600,550	0.00020417	0.00020417	0.00020417
AA50000Y	\$ 4,516.43	111,103,305	0.00004065	0.00004065	0.00004065
AA52000Y	\$ 38.36	4,911,516	0.00000781	0.00000781	0.00000781
AA54000Y	\$ 711.56	5,158,785	0.00013793	0.00013793	0.00013793
AA56000Y	\$ 137.19	4,080,775	0.00003362	0.00003362	0.00003362
AA66000Y	\$ 151.63	4,080,775	0.00003716	0.00003716	0.00003716
TOTAL	\$ 24,920.71		0.00071005	0.00082570	0.00075232
TOTAL \$			\$0.00071	\$0.00083	\$0.00075

1) CBT Cost represents machine costs ONLY and was obtained from Jim Abt.

2) Message Counts were obtained from the following:

Job Name	Description - Message Count Origin
AA38800Y	COMPIS/OSPS Unrated EMR edit - AA388 Message Count Report
AA39000Y	MPS Received Collects - AA390 Message Count Report
AA39900Y	Standard AMA format entry - AA399 Message Count Report
AA41000Y	Line Sort - Count of messages written to 410 output files
AA42000Y	Prerate - Count of messages of the 410 output files (this is input to AA420)
AA44000Y	Rating - System Control Reports
AA45000Y	Master File Update - System Control Reports
AA46100Y	Bill Calculation - System Control Reports
AA50000Y	Stat Trapdoor - Count of msgs on 410 stat file plus 420 stat file calculation*
AA52000Y	USP Trapdoor - AA420 USP file calculation*
AA54000Y	Rating Trapdoor - System Control Reports (Output File of AA440)
AA56000Y	Billing Trapdoor - System Control Reports (Output File of AA461)
AA66000Y	Billing Trapdoor - System Control Reports (Output File of AA461)

* File calculation were obtained by multiplying the number of blocks used on the tape by the number of records in a block (i.e. 54).

3) Programs that do not process messages are not included (i.e. MGDB, TORC, etc.).

Cost Per Message for April 1996

Job Name	CBT Cost	Msg Count	Cost/OSPS	Cost/Rec. Collect	Cost/AMA
AA38800Y	\$ 100.03	2,596,768	0.00003852		
AA39000Y	\$ 302.48	2,022,680		0.00014954	
AA39900Y	\$ 10,283.16	113,000,000			0.00009100
AA41000Y	\$ 3,740.89	108,848,233	0.00003437	0.00003437	0.00003437
AA42000Y	\$ 2,519.02	21,439,496	0.00011749	0.00011749	0.00011749
AA44000Y	\$ 161.09	5,868,748	0.00002745	0.00002745	0.00002745
AA45000Y	\$ 637.49	58,263,130	0.00001094	0.00001094	0.00001094
AA46100Y	\$ 984.33	4,943,569	0.00019911	0.00019911	0.00019911
AA50000Y	\$ 4,675.89	116,719,854	0.00004006	0.00004006	0.00004006
AA52000Y	\$ 48.84	5,496,498	0.00000889	0.00000889	0.00000889
AA54000Y	\$ 764.50	5,800,699	0.00013179	0.00013179	0.00013179
AA56000Y	\$ 141.35	4,120,128	0.00003431	0.00003431	0.00003431
AA66000Y	\$ 141.63	4,120,128	0.00003438	0.00003438	0.00003438
TOTAL	\$ 24,500.70		0.00067731	0.00078833	0.00072979
TOTAL \$			\$0.00068	\$0.00079	\$0.00073

1) CBT Cost represents machine costs ONLY and was obtained from Jim Abt.

2) Message Counts were obtained from the following:

Job Name	Description - Message Count Origin
AA38800Y	COMPIS/OSPS Unrated EMR edit - AA388 Message Count Report
AA39000Y	MPS Received Collects - AA390 Message Count Report
AA39900Y	Standard AMA format entry - AA399 Message Count Report
AA41000Y	Line Sort - Count of messages written to 410 output files
AA42000Y	Prerate - Count of messages of the 410 output files (this is input to AA420)
AA44000Y	Rating - System Control Reports
AA45000Y	Master File Update - System Control Reports
AA46100Y	Bill Calculation - System Control Reports
AA50000Y	Stat Trapdoor - Count of msgs on 410 stat file plus 420 stat file calculation*
AA52000Y	USP Trapdoor - AA420 USP file calculation*
AA54000Y	Rating Trapdoor - System Control Reports (Output File of AA440)
AA56000Y	Billing Trapdoor - System Control Reports (Output File of AA461)
AA66000Y	Billing Trapdoor - System Control Reports (Output File of AA461)

* File calculation were obtained by multiplying the number of blocks used on the tape by the number of records in a block (i.e. 54).

3) Programs that do not process messages are not included (i.e. MGDB, TORC, etc.).

Cost Per Message for May 1996

Job Name	CBT Cost	Msg Count	Cost/OSPS	Cost/Rec. Collect	Cost/AMA
AA38800Y	\$ 103.60	2,566,787	0.00004036		
AA39000Y	\$ 309.57	2,145,456		0.00014429	
AA39900Y	\$ 10,416.39	119,000,000			0.00008753
AA41000Y	\$ 3,841.83	114,532,412	0.00003354	0.00003354	0.00003354
AA42000Y	\$ 2,629.48	21,003,080	0.00012519	0.00012519	0.00012519
AA44000Y	\$ 163.91	5,905,140	0.00002776	0.00002776	0.00002776
AA45000Y	\$ 696.40	61,713,082	0.00001128	0.00001128	0.00001128
AA46100Y	\$ 893.12	5,381,100	0.00016597	0.00016597	0.00016597
AA50000Y	\$ 4,762.96	117,404,483	0.00004057	0.00004057	0.00004057
AA52000Y	\$ 84.09	5,828,112	0.00001443	0.00001443	0.00001443
AA54000Y	\$ 797.29	5,766,942	0.00013825	0.00013825	0.00013825
AA56000Y	\$ 145.31	4,294,242	0.00003384	0.00003384	0.00003384
AA66000Y	\$ 134.68	4,294,242	0.00003136	0.00003136	0.00003136
TOTAL	\$ 24,978.63		0.00066257	0.00076649	0.00070974
TOTAL \$			\$0.00066	\$0.00077	\$0.00074

1) CBT Cost represents machine costs ONLY and was obtained from Jim Abt.

2) Message Counts were obtained from the following:

Job Name	Description - Message Count Origin
AA38800Y	COMPIS/OSPS Unrated EMR edit - AA388 Message Count Report
AA39000Y	MPS Received Collects - AA390 Message Count Report
AA39900Y	Standard AMA format entry - AA399 Message Count Report
AA41000Y	Line Sort - Count of messages written to 410 output files
AA42000Y	Prerate - Count of messages of the 410 output files (this is input to AA420)
AA44000Y	Rating - System Control Reports
AA45000Y	Master File Update - System Control Reports
AA46100Y	Bill Calculation - System Control Reports
AA50000Y	Stat Trapdoor - Count of msgs on 410 stat file plus 420 stat file calculation*
AA52000Y	USP Trapdoor - AA420 USP file calculation*
AA54000Y	Rating Trapdoor - System Control Reports (Output File of AA440)
AA56000Y	Billing Trapdoor - System Control Reports (Output File of AA461)
AA66000Y	Billing Trapdoor - System Control Reports (Output File of AA461)

* File calculation were obtained by multiplying the number of blocks used on the tape by the number of records in a block (i.e. 54).

3) Programs that do not process messages are not included (i.e. MGDB, TORC, etc.).

CINCINNATI BELL TELEPHONE
SWITCHING COST INFORMATION SYSTEM
5 ESS GRAND WEIGHTED SMORT to NCAT REPORT

CHUCK DSS

Study: 5E NISDN- includes National ISDN 50% disc.

May 22, 1996

Version 2.1

Economic Option: Average

Generic: 5E9.2 - Nat ISDN

Total Offices: -2

Effective Date: 02/01/1995

Total Remotes: 0

E, F & I Unit Investment

Getting Started Inv. Per MS:	1.00585
SM Real Time Inv. Per EPHC:	3.80398
SM-2000 Real Time Inv. Per EPHC:	0.00000

Line Termination Inv.	
Minimum Inv. Per Line:	70.31891
Inv. Per Line CCS (O+T):	22.84147
Inv. Per Call Type	
Inv. Per Terminating Call:	1.71071

Inv. Per SS7 Octet:	0.0007482
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ATAD AMA Resource Investments

AMA Storage Inv. per Local Call:	0.00708
AMA Storage Inv. per Toll Call:	0.00780✓
AMA Storage Inv. per Packet Call:	0.00816
AMA Storage Inv. per SCA/CAR Call:	0.00960
AMA Storage Inv. per LASS Call:	0.00852

Inv. Per Trunk CCS (O+I):	7.20659
Inv. Per Tandem Trunk CCS (O+I):	NA
Umbilical Trunk Inv. Per CCS (O+I):	0.00000
Inv. Per Local Analog Trunk:	0.00000
Inv. Per Local Analog Trunk CCS:	NA
Inv. Per Local Digital Trunk:	190.04726
Inv. Per Local Digital Trunk CCS:	0.00000
Inv. Per Tandem Analog Trunk:	NA
Inv. Per Tandem Analog Trunk CCS:	NA
Inv. Per Tandem Digital Trunk:	NA
Inv. Per Tandem Digital Trunk CCS:	NA
Inv. Per Umbilical Trunk:	0.00000
Inv. Per Umbilical Trunk CCS:	0.00000
Inv. Per EPHC (O+I Umbil):	0.00000

Percent Of Calls On SM-2000s (%):

NA

NATIONAL ISDN

MCI Depo
EX. No. 2B
CDR 11-26-97

National ISDN

Flexline

Alt Reg LRSIC Study

Prepared by: Chuck Catanese

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DESTROY BY SHREDDING