

Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

Today's Date: MAY 11 2011

Page Count

Part 18

**MCI Exhibits
1-48**

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NETWORK MAINTENANCE AND TECHNICAL SUPPORT - NETWORK FIELD MAINTENANCE - CENTRAL OFFICE

SOURCE: RON RECKNER

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH MULTILINE NON-HUNTING EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
2 ESTABLISH MULTILINE HUNT EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
3 ESTABLISH PBX TRUNK EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
4 ESTABLISH ANALOG CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
5 ESTABLISH ISDN CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
6 ESTABLISH ISDN SINGLE EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
7 ESTABLISH COCOTS/COINLESS EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7
8 ESTABLISH SEMI-PUBLIC EXCHANGE ACCESS LINE, PER LINE	RUN JUMPERS	414	5 - 7	REMOVE JUMPERS	414	5 - 7

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Note: Many orders do not reach the CO. If there is a dedicated line for the TN, CO work may not be required. Orders are not distinguished by Class of Service in the Central Office. The basic activity is the same for all Classes of Service. There is no difference timewise between Analog and Digital.

NETWORK ENGINEERING AND CONSTRUCTION

SOURCES: MICHELLE WIRTZ AND ROY HORD

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH MULTILINE NON-HUNTING EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	0.8			
2	SPLICING	320	0.837			
3 ESTABLISH MULTILINE HUNT EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	0.8			
4	SPLICING	320	0.837			
5 ESTABLISH PBX TRUNK EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	1.6			
6	SPLICING	320	1.674			
7 ESTABLISH ANALOG CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	1.6			
8	SPLICING	320	1.674			
9 ESTABLISH ISDN CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	8			
10	SPLICING	320				
11 ESTABLISH ISDN SINGLE EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231				
12	SPLICING	320				

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NETWORK ENGINEERING AND CONSTRUCTION

SOURCES: MICHELLE WIRTZ AND ROY HORD

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
13 ESTABLISH COCOTS/COINLESS EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	0.8			
14	SPLICING	320	0.837			
15 ESTABLISH SEMI-PUBLIC EXCHANGE ACCESS LINE, PER LINE	DETERMINE FACIL- ITIES NEEDED	231	0.8			
16	SPLICING	320	0.837			

Note: Times shown are weighted times based upon March, 1996 held order data received from Network Engineering and Construction and percentages of held orders for the various Classes of Service received from the LAC and RCMAC. Data and weighting calculations are shown on Backup Sheet C9B.

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NETWORK ENGINEERING AND CONSTRUCTION FACILITIES CLERK - 3 AND SPLICER TIME WEIGHTINGS FOR HELD ORDERS

IN MARCH, 1996 THERE WERE 427 HELD BUSINESS ORDERS. OF THESE, 235 REQUIRED A SPLICER'S TIME. FOR EACH HELD ORDER, A 231 LEVEL CLERK SPENDS APPROXIMATELY 80 MINUTES. FOR EACH ORDER THAT HE OR SHE RECEIVES, A SPLICER SPENDS APPROXIMATELY 310 MINUTES. APPROXIMATELY 50% OF A SPLICER'S TIME IS EXPENSED.

THE FOLLOWING IS THE LOOP ASSIGNMENT CENTER'S ESTIMATED PERCENTAGES OF HELD ORDERS FOR EACH CLASS OF SERVICE STUDIED.

CLASS OF SERVICE		PERCENT HELD ORDERS
1	MULTILINE NON-HUNT	1%
2	MULTILINE HUNT	1%
3	PBX	2%
4	ANALOG CENTREX	2%
5	ISDN CENTREX	10%
6	ISDN SINGLE LINE	10%
7	COCOTS/COINLESS	1%
8	SEMI-PUB	1%

CALCULATIONS FOR 231 FACILITIES CLERK - 3 WEIGHTINGS		
9	MULTILINE NON-HUNT	80*.01= 0.8
10	MULTILINE HUNT	80*.01= 0.8
11	PBX	80*.02= 1.6
12	ANALOG CENTREX	80*.02= 1.6
13	ISDN CENTREX	80*.10= 8.0
14	ISDN SINGLE LINE	80*.10= 8.0
15	COCOTS/COINLESS	80*.01= 0.8
16	SEMI-PUBLIC	80*.01= 0.8

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NETWORK ENGINEERING AND CONSTRUCTION FACILITIES CLERK - 3 AND SPLICER TIME WEIGHTINGS FOR HELD ORDERS

CALCULATIONS FOR 320 SPLICER'S TIME WEIGHTINGS

PERCENTAGE OF TIME A SPLICER IS REQUIRED ON HELD ORDERS = $235/427 = .54$

PERCENTAGE OF A SPLICER'S TIME THAT IS EXPENSED = .50

AVERAGE AMOUNT OF TIME A SPLICER SPENDS PER ORDER = 310 MINUTES.

17	MULTILINE NON-HUNT	310*.01*.54*.5=	0.837
18	MULTILINE HUNT	310*.01*.54*.5=	0.837
19	PBX	310*.02*.54*.5=	1.674
20	ANALOG CENTREX	310*.02*.54*.5=	1.674
21	ISDN CENTREX	310*.10*.54*.5=	16.970
22	ISDN SINGLE LINE	310*.10*.54*.5=	16.970
23	COCOTS/COINLESS	310*.01*.54*.5=	0.837
24	SEMI-PUBLIC	310*.01*.54*.5=	0.837

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CUSTOMER SALES AND SERVICE - FIELD INSTALLATION

SOURCES: MIKE BENEDETTI AND FRED GATCH

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
---------	--------------------------	--------------	-------------------	---------------------	--------------	-------------------

- 1 ESTABLISH MULTILINE NON-HUNTING
EXCHANGE ACCESS LINE, PER LINE
- 2 ESTABLISH MULTILINE HUNT
EXCHANGE ACCESS LINE, PER LINE
- 3 ESTABLISH ANALOG CENTREX 2000
EXCHANGE ACCESS LINE, PER LINE

210 46.67

210
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Note: Mike Benedetti bases his estimates on his own experience as well as a study done by Mercer Consulting Group several years ago. Installation time per line is based upon an average of three lines installed per order. Installation time for the first line is estimated at 60 minutes, and installation time for each additional line is estimated at 30 minutes. Drive time is estimated at 20 minutes. Therefore, installation time per line = $(60 + 30 + 30 + 20) / 3 = 46.67$ minutes per line. There is no removal time for the services shown. This is all done in the Central Office. For Centrex, the installation time is based on an average of 5 lines per order. Therefore, the installation time per line = $(60 + 30 + 30 + 30 + 20) / 5 = 40$ minutes per line.

CLIENT TECHNICAL OPERATIONS - FIELD INSTALLATION AND REPAIR

SOURCES: PHIL PARKS AND DAVE AUBREY

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH PBX TRUNK EXCHANGE ACCESS LINE, PER LINE	* MAKE TERMINAL CONNECTIONS; TEST FACILITIES; RUN WIRE; TEST LINE	514	60	DISCONNECT TERMINAL CONNECTIONS	514	20
2 ESTABLISH ISDN CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	MAKE TERMINAL CONNECTIONS; TEST FACILITIES; RUN WIRE	514	75 Work 30 Drive	DISCONNECT TERMINAL CONNECTIONS	514	45 Work
3 ESTABLISH ISDN SINGLE EXCHANGE ACCESS LINE, PER LINE	MAKE TERMINAL CONNECTIONS; TEST FACILITIES; RUN WIRE; TEST LINE	514	200 Work 30 Drive	DISCONNECT TERMINAL CONNECTIONS	514	30 Work

Note: Drive time varies per location. CTO serves a large area. (A job might be downtown or it might be in Williamstown.) 30 minutes represents an average drive time across all orders.

* Installation time for PBX Trunks is based upon an average of three trunks installed per order. Installation time for the first trunk is estimated at 90 minutes. Installation time for each additional trunk is estimated at 30 minutes. Therefore, including 30 minutes drive time, installation time per trunk is as follows:

$$(90 + 30 + 30 + 30) / 3 = 60 \text{ minutes per trunk}$$

Removal time for PBX trunks is also based upon an average of three trunks per removal order. Removal time for the first trunk is estimated at 30 minutes. Removal time for each additional trunk is estimated at 15 minutes. Therefore, including 15 minutes drive time, removal time per trunk is as follows: The rationale for not including drive time is that in practice, removals are most often done during installations when new service replaces an old service. Removal time was calculated as follows:

$$(30 + 15 + 15) / 3 = 20 \text{ minutes per trunk}$$

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CLIENT TECHNICAL OPERATIONS - CIRCUIT DESIGN AND TESTING

SOURCES: LAURIE WINKLER; OREST MELNYK

Service	Installation		Job		Removal		Job		Time	
	Activity	Level	Activity	Level	Activity	Level	Activity	Level	Activity	Level
1 ESTABLISH PBX TRUNK EXCHANGE	DESIGN CIRCUIT	471	DESIGN CIRCUIT	471						
2 ACCESS LINE, PER LINE	TEST CIRCUIT	471	TEST CIRCUIT	471						
3 ESTABLISH ISDN SINGLE EXCHANGE ACCESS LINE, PER LINE	DESIGN CIRCUIT	471	DESIGN CIRCUIT	471						

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Note: The CTO handles PBX trunk and ISDN BRI Circuit Design. PBX testing is also done here. However, ISDN testing is done by the installer. There are a variety of scenarios for PBX design, but the average time across all situations is 19 minutes. PBX testing takes approximately 60 minutes.

NETWORK MAINTENANCE AND TECHNICAL SUPPORT - NETWORK FIELD MAINTENANCE - COIN

INSTALLATION

SOURCE: SCOTT BAILEY

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH COCOTS/COINLESS EXCHANGE ACCESS LINE, PER LINE		520	120		520	60
2 ESTABLISH SEMI-PUBLIC EXCHANGE ACCESS LINE, PER LINE		520	180		520	60

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CUSTOMER SALES AND SERVICE - ASSIGNMENT AND TRANSLATIONS - SERVICE ORDER COMPLETION

SOURCE: LINDA ANDERSON

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH MULTILINE NON-HUNTING EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER COMPLETE ORDER WHEN NO ASSIGN OF EQT	291	2.03 0.08	COMPLETE ORDER	291	1
2 ESTABLISH MULTILINE HUNT EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER COMPLETE ORDER WHEN NO ASSIGN OF EQT	291	2.03 0.08	COMPLETE ORDER	291	1
3 ESTABLISH ANALOG CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER	291	2.06	COMPLETE ORDER	291	1
4 ESTABLISH ISDN CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER	291	2.3	COMPLETE ORDER	291	1
5 ESTABLISH ISDN SINGLE EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER	291	2.3	COMPLETE ORDER	291	1
6 ESTABLISH COCOTS/COINLESS EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER	291	2.03	COMPLETE ORDER	291	1
7 ESTABLISH SEMI-PUBLIC EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER	291	2.03	COMPLETE ORDER	291	1
8 CHANGE FROM ONE TYPE OR GRADE OF NON-RESIDENCE EXCHANGE ACCESS LINE TO ANOTHER, PER LINE	COMPLETE ORDER	291	2	COMPLETE ORDER	291	2

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COMPLETE ORDER 291
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COMPLETE ORDER 291
PROVIDED TO POCO

CUSTOMER SALES AND SERVICE - ASSIGNMENT AND TRANSLATIONS - SERVICE ORDER COMPLETION

SOURCE: LINDA ANDERSON

Service	Installation		Job		Time		Removal		Job		Time	
	Activity	Level	Activity	Level	(Minutes)		Activity	Level	Activity	Level	(Minutes)	

Note: Residence orders are completed mechanically. Business orders are completed manually. This group does not complete Trunk orders. This is done by the Special Services group.

Orders where there are facilities available take approximately 2 minutes. Orders that are held for facilities take approximately 5 minutes. Calculations of weighted minutes are done on Backup Sheet C14B, and are based upon the percentages of held orders provided by the LAC.

Orders where there is no assignment of Central Office Equipment take longer. This applies primarily to 4B and 1FH lines -- approximately 2% of the orders require an additional 4 minutes. Therefore, .02 * 4 = .08 minutes.

Orders where there are changes in Class of Service or Billing are completed mechanically.

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SERVICE ORDER COMPLETION WEIGHTINGS

	% Non-Held	Time	Weighted Time	% Held	Time	Weighted Time	Total Weighted Time
1 MULTILINE NON-HUNT	99%	2	1.98	1%	5	0.05	2.03
2 MULTILINE HUNT	99%	2	1.98	1%	5	0.05	2.03
3 PBX TRUNK*	0%	0	0.00	0%	0	0.00	0.00
4 ANALOG CTX	98%	2	1.96	2%	5	0.10	2.06
5 ISDN CTX	90%	2	1.80	10%	5	0.50	2.30
6 ISDN SINGLE	90%	2	1.80	10%	5	0.50	2.30
7 COCOTS/COINLESS	99%	2	1.98	1%	5	0.05	2.03
8 SEMI-PUB	99%	2	1.98	1%	5	0.05	2.03

* PBX TRUNK ORDERS ARE COMPLETED IN SPECIAL SERVICES.

CLIENT TECHNICAL OPERATIONS - ACCESS SERVICE CENTER - SERVICE ORDER COMPLETION
 SOURCE: BRENDA HARRIS

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH PBX TRUNK EXCHANGE ACCESS LINE, PER LINE	COMPLETE ORDER	291	1.5	COMPLETE ORDER	291	1.5

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BUSINESS SALES - SALES SUPPORT - ACCOUNT EXECUTIVE - COIN

SOURCE: STEVE KIDNEY

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH COCOTS/COINLESS EXCHANGE ACCESS LINE, PER LINE	NEGOTIATE; WRITE ORDER; SEND ORDER TO INSTALLATION		5			
2 ESTABLISH SEMI-PUBLIC EXCHANGE ACCESS LINE, PER LINE	NEGOTIATE; WRITE ORDER; ORDER EQT; SEND ORDER TO INSTALLATION					10

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 FOR NEGOTIATE; WRITE
 ORDER PROVIDED TO PUCO

BUSINESS SALES - ACCOUNT EXECUTIVE

Service	Installation Activity	Job Level	Time (Minutes)	Removal Activity	Job Level	Time (Minutes)
1 ESTABLISH PBX TRUNK EXCHANGE ACCESS LINE, PER LINE	NEGOTIATE ORDER	6H	5			
2 ESTABLISH ANALOG CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	NEGOTIATE ORDER	6H	5			
3 ESTABLISH ISDN CENTREX 2000 EXCHANGE ACCESS LINE, PER LINE	NEGOTIATE ORDER	6H	5			

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Note: It was assumed that, while much of the Account Executive's time is spent on sales, some time is also spent in negotiating and recording order information. Senior Sales Representatives report that approximately 5 minutes of the total time for each line is spent in negotiation. It was therefore assumed that a similar amount of time is also spent by the Account Executive. This time was applied to PBX and Centrex services, assuming that the Account Executive would be most likely to handle those types of services.

PERCENTAGE OF ORDERS REQUIRING CENTRAL OFFICE WORK AND INSTALLATION WORK

SOURCE: JACKIE JEWELL

<u>CLASS OF SERVICE</u>	<u>% ORDERS REQUIRING CENTRAL OFFICE WORK</u>	<u>% ORDERS REQUIRING INSTALLATION WORK</u>
1 MULTILINE NON-HUNT	75%	100%
2 MULTILINE HUNT	75%	100%
3 PBX	100%	100%
4 ANALOG CENTREX	100%	100%
5 ISDN CENTREX	100%	100%
6 ISDN SINGLE LINE	100%	100%
7 COCOTS/COINLESS	75%	100%
8 SEMI-PUB	75%	100%

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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 F1 FOR CALCULATIONS

JOB LEVEL	DIRECTLY ASSIGNED LABOR RATE PER HOUR		INFLATED LABOR RATE PER HOUR	
1	210	\$47.70	\$50.94	
2	231	\$37.13	\$39.65	
3	241	\$36.25	\$38.71	
4	251	\$33.58	\$35.86	
5	291	\$27.90	\$29.79	
6	320	\$48.22	\$51.49	
7	414/415	\$40.46	\$43.21	
8	471	\$31.47	\$33.61	
9	514	\$45.17	\$48.24	
10	520	\$36.46	\$38.24	
11	6H	\$44.23	\$47.23	

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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

Levelized Inflation Rate: 1.068

8 Discount Rate 11.6%

SOURCES:

Column C = Forecasted Inflation Rate (Joel Popkin)
 Column D = Column C * Previous Line Column D
 Column E = 1 / Line 8 ^ (Column A - 1)
 Column F = Column D * Column E
 Column F Line 7 = Column F, L. 6 / Column F, L. 7

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NONRECURRING COST STUDY RESULTS

Service	Installation	Removal	Total
	A	B	C=A+B
1FR	\$ 32.65	\$ 3.96	\$ 36.61
1FB - Single Line Non-Hunt	\$ 90.93	\$ 3.96	\$ 94.89
Touch Tone	\$ 2.39	\$ 2.39	\$ 4.78
Custom Calling	\$ 1.79	\$ 1.79	\$ 3.59
Custom Calling Plus	\$ 3.59	\$ 3.59	\$ 7.17
Long Distance Block	\$ 3.59	\$ 3.59	\$ 7.17
900 Block	\$ 2.39	\$ 2.39	\$ 4.78
Change Line Number	\$ 2.99	\$ -	\$ 2.99
Change Class of Service	\$ 5.38	\$ -	\$ 5.38

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Sources: Line 1, Col A, - See Page 2, L12, Col D
 Line 2, Col A, - See Page 2, L12, Col G
 Line 3, Col A, - See Page 2, L12, Col J
 Line 4, Col A, - See Page 2, L12, Col M
 Line 5, Col A, - See Page 2, L12, Col P
 Line 6, Col A, - See Page 3, L12, Col D
 Line 7, Col A, - See Page 3, L12, Col G
 Line 8, Col A, - See Page 3, L12, Col J
 Line 9, Col A, - See Page 3, L12, Col M

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Line 1, Col B, - See Page 3, L12, Col E
 Line 2, Col B, - See Page 2, L12, Col H
 Line 3, Col B, - See Page 2, L12, Col K
 Line 4, Col B, - See Page 2, L12, Col N
 Line 5, Col B, - See Page 2, L12, Col Q
 Line 6, Col B, - See Page 3, L12, Col E
 Line 7, Col B, - See Page 3, L12, Col H
 Line 8, Col B, - See Page 3, L12, Col K
 Line 9, Col B, - See Page 3, L12, Col N

Non-Recurring Cost Study

New service installation													
		IFB		IFB		Touch Tone		Cus Calling		Cus Calling Plus			
A	B	Time	Install	Remove	Time	Install	Remove	Time	Install	Remove	Time	Install	Remove
		C	D=B*C	E=B*C	F	G=B*F	H=B*F	I	J=B*I	K=B*I	L	M=B*L	N=B*L
Level	Per Min.												
BSSC													
251	\$0.598	12	\$7.172		20	\$11.953		4	\$2.391		3	\$1.793	
251	\$0.598	4		\$2.391	4		\$2.391	4		\$2.391	3		\$1.793
LAC													
231	\$0.661	0.90	\$0.595		0.90	\$0.595							
251	\$0.598	0.41	\$0.248	\$0.248	0.41	\$0.248	\$0.248						
291	\$0.497	0.27	\$0.134	\$0.134	0.27	\$0.134	\$0.134						
RCMAC													
251	\$0.598	0.37	\$0.223		0.37	\$0.223							
Central Office													
414	\$0.720	1.65	\$1.188	\$1.188	1.65	\$1.188	\$1.188						
Installation													
120	\$0.572	1.50	\$0.858										
240	\$0.808	27.30	\$22.050		91.00	\$73.499							
251	\$0.598	0.30	\$0.181		1.01	\$0.604							
291	\$0.497				5.00	\$2.483							
TOTAL COST			\$32.648	\$3.961		\$90.927	\$3.961		\$2.391	\$2.391			

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Non-Recurring Cost Study

New service installation											
Long Dist. Block				900 Block				Change Line #			
Time	Install	Remove	Time	Install	Remove	Time	Install	Time	Install	Remove	Time
A	B	C	D=B*C	E=B*C	F	G=B*F	H=B*F	I	J=B*I	K=B*I	L
Level	Per Min.								M	N	B*L
RSSC											
251	\$0.598	6	\$3.586	\$3.586	4	\$2.391	\$2.391	5	\$2.988	5	\$2.988
251	\$0.598	6			4						\$0.000
LAC											
231	\$0.661										
251	\$0.598										
291	\$0.497										
RCMAC											
251	\$0.598										
Central Office											
414	\$0.720										
Installation											
120	\$0.572										
240	\$0.808										
251	\$0.598										
291	\$0.497										
TOTAL COST				\$3.586	\$3.586	\$2.391	\$2.391	\$2.988	\$2.988	\$0.000	\$5.376
											\$0.000

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Sources: Columns A & B, - See Tab A, Page 8, Columns B & E

Lines 1 & 2, Columns C, F, I, - Kathy Brown and Brenda Wagner (RSSC)

Lines 3 to 5, Column L, Page 4, L.14, L.13, & L.12

Line 6, Column L, Page 5, L.11

Line 7, Column L, Page 6, L.9

Line 12 = Sum of Lines 1 thru 11

Loop Assignment

Level	% A	Job Level B	Order Flows Thru	Minutes		
				C	D	
291	91%			-	-	1
251	8%	Clerk - 9		3.00		2
251		Clerk - 5		4.00		3
251		Rep. Sups Order		0.27 (9% of 3 minutes)		4
		Total (Sum of L2 to 4)		7.27		5
291	1%	Clerk - 9		3.00		6
251		Clerk - 5		7.00		7
231		Fac. Clerk - 3		90.00		8
251		Rep. Sups Order		0.27 (9% of 3 minutes)		9
		Total (Sum of L6 to 9)		100.27		10
		Weighted Total Time		1.58		11
291		Weighted 291 Time		0.27		12
251		Weighted 251 Time		0.41		13
231		Weighted 231 Time		0.90		14

Sources: Lines 1 thru 10, - J. Brunsmann, Loop Assignment Center (LA)
 Line 11, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L5) +
 (Col A, L6 * Col C, L10)
 Line 12, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L10)
 (Col A, L6 * Col C, L6)
 Line 13, = (Col A, L1 * (Col C, L1) + (Col A, L2 * (Col C, L3 + Col C, L9))
 ((Col A, L6 * (Col C, L7 + Col C, L9))
 Line 14, = Col A, L6 * Col C, L8

RCMAC

Level	% A	Job Level B	Minutes			
			C	D		
251	96.37%	Order Flows Thru	-		1	
251	3.52%	Clerk - 5, Review	5.00		2	
251		Clerk - 5, Build Translation	5.00		3	
251		Rep. Sups Order	0.11 (3.63% of 3 minutes)		4	
		Total (Sum of L2 to 4)	10.11		5	
251	0.11%	Clerk - 5, Review	5.00		6	
251		Clerk - 5, Build Translation	5.00		7	
251		Rep. Sups Order	0.11 (3.63% of 3 minutes)		8	
251		Clerk - 5, Resolve & Re-enter	5.00		9	
		Total (Sum of L6 to 9)	15.11		10	
		Weighted 251 Time	0.37		11	

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Sources: Lines 1 thru 4, & Lines 6 thru 9, - C. Setser, RCMAC
 Line 11, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L5) +
 (Col A, L6 * Col C, L10)

Central Office

Level	% A	Job Level B	Order Flows Thru	Minutes C	
	80.00%			-	1
414	15.00%	Tech. - COSMOS		2.00	2
414		Tech. - Run Jumpers		5.00	3
		Total		7.00	4
414	5.00%	Tech. - COSMOS		2.00	5
414		Tech. - Run Jumpers		5.00	6
414		Tech. - Install Coord.		5.00	7
		Total		12.00	8

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Weighted Tech. Time

Sources: Lines 1 thru 8, - Ron Reckner, Network Mice. & Tech. Support

Line 9, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L4) +
 (Col A, L5 * Col C, L8)

Installation (Residence)

Level	% A	Job Level B	Minutes C	
			C	
	70%	Order Flows Thru	-	
120	27%	Tech. - Assigns orders	5.00	
240		Installer	90.00	
		Total (Sum of Lines 2 thru 4)	95.00	
120	3%	Tech. - Assigns orders	5.00	
251		LAC	10.11	
240		Installer	100.00	
		Total (Sum of Lines 6 thru 9)	115.11	
		Weighted Total Time	29.10	
		Weighted 120 Time	1.50	
		Weighted 240 Time	27.30	
		Wghid 251 Time	0.30	

Sources: Col A, - J. Brunzman, Loop Assignment Center (LAC)

Cols B & C, Line 1, - J. Brunzman, Loop Assignment Center

Cols B & C, Lines 2 & 5, - K. Wimmer (Repair)

Cols B & C, Lines 3 & 7, - F. Gatch (Cust. Sales & Serv.)

Cols B & C, Line 6, - See Tab A, Page 4, Col C, L5

Line 9, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L4) + (Col A, L5 * Col C, L8)

Line 10, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L2) + (Col A, L5 * Col C, L5)

Line 11, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L3) + (Col A, L5 * Col C, L7)

Line 12, = (Col A, L5 * Col C, L6)

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Installation (Business)

Level	% A	Job Level B	Minutes C	
	0%	Order Flows Thru	-	1
291	90%	Tech. - Assigns orders	5.00	2
240		Installer	90.00	3
		Total (Sum of Lines 2 thru 4)	95.00	4
291	10%	Tech. - Assigns orders	5.00	5
251		LAC	10.11	6
240		Installer	100.00	7
		Total (Sum of Lines 6 thru 9)	115.11	8
		Weighted Total Time	97.01	9
		Weighted 291 Time	5.00	10
		Weighted 240 Time	91.00	11
		Wghtd 251 Time	1.01	12

Sources: Col A, - J. Brunzman, Loop Assignment Center (LAC)
 Cols B & C, Line 1, - J. Brunzman, Loop Assignment Center (LAC)
 Cols B & C, Lines 2 & 5, - K. Wimmer (Repair)
 Cols B & C, Lines 3 & 7, - F. Gatch (Cust. Sales & Serv)
 Cols B & C, Line 6, - See Tab A, Page 4, Col Q, L8
 Line 9, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L1) + (Col A, L5 * Col C, L8)
 Line 10, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L2) + (Col A, L5 * Col C, L5)
 Line 11, = (Col A, L1 * Col C, L1) + (Col A, L2 * Col C, L3) + (Col A, L5 * Col C, L7)
 Line 12, = (Col A, L5 * Col C, L6)

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***Labor Rates**

Description A	Level B	Directly Assigned Labor Rate Per Hour	Inflated Labor Rate Per Hour C	Inflated Labor Rate Per Minute D=C/60
Serv Rep. Admin. Clerk - 5	251	\$33.58	\$35.86	\$0.598
Clerk - 9	291	\$27.90	\$29.79	\$0.497
Fac. Clerk - 3	231	\$37.13	\$39.65	\$0.661
C. O. - Install & Mice.	414	\$40.46	\$43.21	\$0.720
Installer	240	\$45.38	\$48.08	\$0.808
Mice/Admin. Install & Mice - Test & Dispatch	120	\$32.14	\$34.31	\$0.572

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* All labor rates are based upon those reported in the May 8, 1996 memo, "Summary of Labor Rates for Use in Cost for Pricing Studies."

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

Levelized Inflation Rate: 1.068

8 Discount Rate 11.6%

SOURCES:

- Column C = Forecasted Inflation Rate (Joel Pappas)
- Column D = Column C * Previous Line C
- 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

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April 24, 1996

Jennifer:

Attached is the data you requested for the 1996 Non-Recurring Cost Study. We added assumptions to a few of the line items. Our assumptions are for provisioning activities only - e.g. assignment of facilities and translations to the central office switch. We did not include activities for the Service Order Completion or Line & Number groups. These activities are tied more closely to the service order and not provisioning for the access line. Cathy Setser supervises these groups too. If any of our assumptions are incorrect or you have any questions please call me. I can be reached on 565-2893. Michelle Solomon, LAC (565-2730) and Dave Bachman, RCMAC (565-2891) provided the detail for your request. They are also available to answer questions.

Below is an example of our thought process with a little explanation.

91% flow through - no human intervention

8% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date

5level clerk 5m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

1% no facilities available. Order sent to Engineering to determine facilities to use

9level clerk 1m pull order from printer
sort by Due Date

5level clerk 3-5m pick up order

For the 1% that have no facilities, we have to do the same preliminary work as those that we are able to manually assign, therefore we repeated the steps.

determine no facilities available. Send to Engineering
9level clerk 3min log order in held service order database.

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INSTALLATION ACTIVITY

1. Establish multiline non-hunting exchange access line per line

Assumption: Install 2 or more 1FR/1FB type access lines

LAC:

91% flow through - no human intervention

8% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date
5level clerk 5m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

1% no facilities available. Order sent to Engineering to determine facilities to use

9level clerk 1m pull order from printer
sort by Due Date
5level clerk 3-5m pick up order
determine no facilities available. Send to Engineering
9level clerk 3m log order in held service order database
Engineering ? ?
9level clerk Engineering sends reply with assignment instructions to LAC via
OS/Order PASOC function.
1m sort by Due Date
log in held service order database
5level clerk 5-10m assign order in OS/Plant & COSMOS
update service order and distribute in OS/Order
9level clerk 2m log out of held service order database

LAC	
9 level	5 level
$.08 \times 1 = .08$	$.08 \times 5 = .4$
$.01 \times 7 = .07$	$.01 \times 15 = .15$
.15	.55

RCMAC:

70% flow through - no human intervention

22% fall out for manual translation

5level clerk 1m pull order from printer
sort by CO
2m input into MARCH

8% reject from MARCH

5level clerk 1m pull order from printer
sort by CO
2m input into MARCH
4m correct reject and input to MARCH again

RCMAC	
5 level	
$.22 \times 3 = .66$	
$.08 \times 7 = .56$	

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2. Establish multiline hunt exchange access line per line

2A. Assumption: Install multiline hunt for 2 or more 1FB type access lines

LAC:

100% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date
5level clerk 10m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

LAC	
9 level	5 level
$1.00 \times 1 = 1$	$100 \times 10 =$
1	10

RCMAC:

100% fall out for manual translation

92% are manually translated

5level clerk 1m pull order from printer
sort by CO
4m input into MARCH

8% reject from MARCH

5level clerk 1m pull order from printer
sort by CO
4m input into MARCH
4m correct reject and input to MARCH again

RCMAC	
5 level	
$.92 \times 5 = 4.6$	
$.08 \times 9 = .72$	
5.32	

2B. Assumption: Install series hunt for 2 or more 1FR/1FB type access lines

LAC:

40% flow through - no human intervention

60% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date
5level clerk 10m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

LAC	
9 level	5 level
$.6 \times 1 = .6$	$.6 \times 10 = 6$

RCMAC:

50% flow through - no human intervention

42% fall out for manual translation

5level clerk 1m pull order from printer
sort by CO
4m input into MARCH

8% reject from MARCH

5level clerk 1m pull order from printer
sort by CO

RCMAC	
5 level	
$.42 \times 5 = 2.1$	
$.08 \times 9 = .72$	
2.82	

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REMOVE ACTIVITY:

1. Establish multiline non-hunting exchange access line per line

Assumption: Remove 2 or more 1FR/1FB type access lines

LAC:

91% flow through - no human intervention

8% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date

5level clerk 2-3m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

$$\begin{array}{r|l} \text{LAC} & \\ \hline 9 \text{ level} & 5 \text{ level} \\ \hline .08 \times 1 = .08 & .08 \times 3 = .24 \end{array}$$

RCMAC:

95% flow through - no human intervention

4% fall out for manual translation

5level clerk 1m pull order from printer
sort by CO
2m input into MARCH

<1% reject from MARCH

5level clerk 1m pull order from printer
sort by CO
2m input into MARCH
4m correct reject and input to MARCH again

$$\begin{array}{r} \text{RCMAC. 5level} \\ \hline .04 \times 3 = .12 \\ .01 \times 7 = .07 \\ \hline .19 \end{array}$$

2. Establish multiline hunt exchange access line per line

2A. Assumption: Install multiline hunt for 2 or more 1FB type access lines

LAC:

100% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date

5level clerk 2-3m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

$$\begin{array}{r|l} \text{LAC} & \\ \hline 9 \text{ level} & 5 \text{ level} \\ \hline 1.0 \times 1 = 1 & 1.0 \times 3 = 3 \end{array}$$

RCMAC:

100% fall out for manual translation

95% are manually translated successfully

5level clerk 1m pull order from printer
sort by CO
1m input into MARCH

5% reject from MARCH

5level clerk 1m pull order from printer

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$$\begin{array}{r} \text{RCMAC - 5level} \\ \hline .95 \times 2 = 1.9 \\ .05 \times 3 = .15 \\ \hline 2.05 \end{array}$$

sort by CO
 1m input into MARCH
 1m correct reject and input to MARCH again

2B. Assumption: Install series hunt for 2 or more 1FR/1FB type access lines

LAC:

40% flow through - no human intervention

60% fall out for manual assignment

9level clerk 1m pull order from printer
 sort by Due Date
 5level clerk 2-3m pick up order
 assign order in OS/Plant and COSMOS
 update service order and distribute on in OS/Order

$$\begin{array}{r|l} \text{LAC} & \\ \hline 9 \text{ level} & 5 \text{ level} \\ \hline .6 \times 1 = .6 & .6 \times 3 = 1.8 \end{array}$$

RCMAC:

50% flow through - no human intervention

42% fall out for manual translation

5level clerk 1m pull order from printer
 sort by CO
 2m input into MARCH

8% reject from MARCH

5level clerk 1m pull order from printer
 sort by CO
 2m input into MARCH
 2m correct reject and input to MARCH again

$$\begin{array}{r} \text{RCMAC - 5 level} \\ \hline .42 \times 3 = 1.26 \\ .08 \times 5 = .4 \\ \hline 1.66 \end{array}$$

3. Establish PBX trunk exchange access line per line

Assumption: Trunks are of the TFC, TFU, TDD, etc. type

LAC:

100% fall out for manual assignment

9level clerk 1m pull order from printer
 sort by Due Date

5level clerk 2-3m pick up order
 assign order in OS/Plant and COSMOS
 update service order and distribute on in OS/Order

$$\begin{array}{r|l} \text{LAC} & \\ \hline 9 \text{ level} & 5 \text{ level} \\ \hline 1.0 \times 3 = 3 & 1.0 \times 3 = 3 \end{array}$$

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RCMAC:

100% fall out for manual translation

92% are manually translated via MARCH

5level clerk 1m pull order from printer
 sort by CO
 2m input into MARCH

$$\begin{array}{r} \text{RCMAC - 5 level} \\ \hline .92 \times 3 = 2.76 \\ .08 \times 6 = .48 \\ \hline 3.24 \end{array}$$

8% reject from MARCH

5level clerk	1m	pull order from printer
		sort by CO
	2m	input into MARCH
	1m	print reject from MARCH
	2m	correct reject and input to MARCH again

4. Establish analog Centrex 2000 exchange access line per line

Assumption: none

LAC:

100% fall out for manual assignment

9level clerk	1m	pull order from printer
		sort by Due Date
5level clerk	5m	pick up order
		assign order in OS/Plant and COSMOS
		update service order and distribute on in OS/Order

LAC

9 level	5 level
$1.0 \times 1 = 1$	$1.0 \times 5 = 5$

RCMAC:

100% fall out for manual translation

92% are manually translated via MARCH

5level clerk	2m	pull order from OS/Order printer
		pull translation document from INS printer
		sort by CO
	5m	input into MARCH

RCMAC: 5-level

$.92 \times 7 = 6.44$
$.08 \times 9 = .72$
7.16

8% reject from MARCH

5level clerk	1m	pull order from OS/Order printer
		pull translation document from INS printer
		sort by CO
	5m	input into MARCH
	1m	print reject from MARCH
	2m	correct reject and input to MARCH again

5. Establish ISDN Centrex 2000 exchange access line per line

Assumption: none

LAC:

100% fall out for manual assignment

9level clerk	1m	pull order from printer
		sort by Due Date
5level clerk	10m	pick up order
		assign order in OS/Plant and COSMOS
		update service order and distribute on in OS/Order

LAC

9 level	5 level
$1.0 \times 1 = 1$	$1.0 \times 10 = 10$

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RCMAC:

9level clerk	1m	pull order from printer sort by Due Date	LAC <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>9 level</th> <th>5 level</th> </tr> <tr> <td>$.9 \times 1 = .9$</td> <td>$.9 \times 20 = 18$</td> </tr> <tr> <td>$.1 \times 7 = .7$</td> <td>$.1 \times 25 = 2.5$</td> </tr> <tr> <td style="border-top: 1px solid black;">1.6</td> <td style="border-top: 1px solid black;">20.5</td> </tr> </table>	9 level	5 level	$.9 \times 1 = .9$	$.9 \times 20 = 18$	$.1 \times 7 = .7$	$.1 \times 25 = 2.5$	1.6	20.5
9 level	5 level										
$.9 \times 1 = .9$	$.9 \times 20 = 18$										
$.1 \times 7 = .7$	$.1 \times 25 = 2.5$										
1.6	20.5										
5level clerk	15-20m	pick up order assign order in OS/Plant and COSMOS update service order and distribute order in OS/Order									
10% no facilities available or facilities must be provided by Engineering											
9level clerk	1m	pull order from printer sort by Due Date									
5level clerk	3-5m	pick up order determine no facilities available or determine Engineering must assign facilities. Send to Engineering									
9level clerk	3m	log order in held service order database									
Engineering	?	?									
9level clerk	1m	pull order from printer sort by Due Date log in held service order database									
5level clerk	15-20m	assign order in OS/Plant & COSMOS update service order and distribute in OS/Order									
9level clerk	2m	log out of held service order database									

RCMAC:

100% fall out for manual translation

50% are manually translated via MARCH

5level clerk	2m	pull order from OS/Order printer pull translation document from INS printer sort by CO	RCMAC <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>5 level</th> </tr> <tr> <td>$.50 \times 17 = 8.5$</td> </tr> <tr> <td>$.50 \times 28 = 14$</td> </tr> <tr> <td style="border-top: 1px solid black;">22.5</td> </tr> </table>	5 level	$.50 \times 17 = 8.5$	$.50 \times 28 = 14$	22.5
5 level							
$.50 \times 17 = 8.5$							
$.50 \times 28 = 14$							
22.5							
	15m	input into MARCH					

50% reject from MARCH

5level clerk	1m	pull order from OS/Order printer pull translation document from INS printer sort by CO
	15m	input into MARCH
	2m	print reject from MARCH
	10m	correct reject and input to MARCH again

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6. Establish ISDN single exchange access line per line

Assumption: none

LAC:

100% fall out for manual assignment

90% manually assigned

9level clerk	1m	pull order from printer sort by Due Date
--------------	----	---

9 level	5 level
$.9 \times 1 = .9$	$.9 \times 20 = 18$
$.1 \times 7 = .7$	$.1 \times 25 = 2.5$
1.6	20.5

5level clerk 15-20m pick up order
 assign order in OS/Plant and COSMOS
 update service order and distribute on in OS/Order

10% no facilities available or facilities must be provided by Engineering

9level clerk 1m pull order from printer
 sort by Due Date

5level clerk 3-5m pick up order
 determine no facilities available or determine Engineering must
 assign facilities. Send to Engineering

9level clerk 3m log order in held service order database

Engineering ? ?

9level clerk 1m pull order from printer
 sort by Due Date
 log in held service order database

5level clerk 15-20m assign order in OS/Plant & COSMOS
 update service order and distribute in OS/Order

9level clerk 2m log out of held service order database

RCMAC:

100% fall out for manual translation

50% are manually translated via MARCH

5level clerk 2m pull order from OS/Order printer
 pull translation document from INS printer
 sort by CO

15m input into MARCH

50% reject from MARCH

5level clerk 2m pull order from OS/Order printer
 pull translation document from INS printer
 sort by CO

15m input into MARCH

2m print reject from MARCH

10m correct reject and input to MARCH again

RCMAC
 5 level
 $.5 \times 17 = 8.5$
 $.5 \times 29 = 14.5$
 23.0

7. Establish COCOTS/Coinless exchange access line per line

Assumption: none

LAC:

91% flow through - no human intervention

8% fall out for manual assignment

9level clerk 1m pull order from printer
 sort by Due Date

5level clerk 5m pick up order
 assign order in OS/Plant and COSMOS

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 $.08 \times 1 = .08$ $.08 \times 5 = .4$
 $.01 \times 7 = .07$ $.01 \times 15 = .15$
 .15 .55

update service order and distribute on in OS/Order

1% no facilities available. Order sent to Engineering to determine facilities to use

9level clerk	1m	pull order from printer sort by Due Date
5level clerk	3-5m	pick up order determine no facilities available. Send to Engineering
9level clerk	3min	log order in held service order database
Engineering	?	?
9level clerk	1m	pull order from printer sort by Due Date log in held service order database
5level clerk	5-10m	assign order in OS/Plant & COSMOS update service order and distribute in OS/Order
9level clerk	2m	log out of held service order database

RCMAC:

70% flow through - no human intervention

22% fall-out for manual translation

5level clerk	1m	pull order from printer sort by CO
	2m	input into MARCH

8% reject from MARCH

5level clerk	1m	pull order from printer sort by CO
	2m	input into MARCH
	4m	correct reject and input to MARCH again

RCMAC	
5 level	
22x3 = .66	
08x7 = .56	
1.22	

LAC	
9 level	5 level
08x1 = .08	08x5 = .4
01x7 = .07	01x15 = .15
.53	

8. Establish semi public exchange access line per line

Assumption: Same as number 7 above.

9. Change from one type or grade of non residence exchange access line to another

Assumption: none

RCMAC	
5 level	
22x3 = .66	
08x7 = .56	
1.22	

LAC:

91% flow through - no human intervention

9% fall out for manual assignment

9level clerk	1m	pull order from printer sort by Due Date
5level clerk	2-3m	pick up order assign order in OS/Plant and COSMOS update service order and distribute on in OS/Order

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RCMAC	
5 level	
22x3 = .66	
08x7 = .56	
1.22	

RCMAC:

70% flow through - no human intervention

22% fall out for manual translation

5level clerk	1m	pull order from printer sort by CO
	2m	input into MARCH
8% reject from MARCH		
5level clerk	1m	pull order from printer sort by CO
	2m	input into MARCH
	4m	correct reject and input to MARCH again

LAC

9 level	5 level
$.09 \times 1 = .09$	$.09 \times 3 =$

10. Change from one type or grade of residence exchange access line to another

Assumption: Same as number 9 above.

RCMAC

5 level	5 level
$.22 \times 3 = .66$	$.08 \times 7 = .56$
1.22	

11. Establish or change billing arrangements associated with a 1FB exchange access line per line

No activity in LAC or RCMAC

12. Establish or change billing arrangements associated with a 1FB exchange access line per line

No activity in LAC or RCMAC

13. Establish or change billing arrangements associated with a residence exchange access line per line

No activity in LAC or RCMAC

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- 4m input into MARCH
- 4m correct reject and input to MARCH again

3. Establish PBX trunk exchange access line per line

Assumption: Trunks are of the TFC, TFU, TDD, etc. type

LAC:

100% fall out for manual assignment

98% manually assigned

- 9level clerk 1m pull order from printer
sort by Due Date
- 5level clerk 10m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

2% no facilities available. Order sent to Engineering to determine facilities to use

- 9level clerk 1m pull order from printer
sort by Due Date
- 5level clerk 3-5m pick up order
determine no facilities available. Send to Engineering
- 9level clerk 3m log order in held service order database

Engineering ? ?

- 9level clerk 1m pull order from printer
sort by Due Date
log in held service order database
- 5level clerk 5-10m assign order in OS/Plant & COSMOS
update service order and distribute in OS/Order
- 9level clerk 2m log out of held service order database

LAC	
9level	5level
$.98 \times 1 = .98$	$.98 \times 10 = 9.8$
$.02 \times 7 = .14$	$.02 \times 15 = .3$
1.12	10.

RCMAC:

100% fall out for manual translation

92% are manually translated via MARCH

- 5level clerk 1m pull order from printer
sort by CO
- 4m input into MARCH

8% reject from MARCH

- 5level clerk 1m pull order from printer
sort by CO
- 4m input into MARCH
- 1m print reject from MARCH
- 4m correct reject and input to MARCH again

RCMAC	
5level	
$.92 \times 5 = 4.6$	
$.08 \times 10 = .8$	
5.4	

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4. Establish analog Centrex 2000 exchange access line per line

Assumption: none

LAC:

100% fall out for manual assignment

98% manually assigned

9level clerk 1m pull order from printer
sort by Due Date
5level clerk 15m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

2% no facilities available. Order sent to Engineering to determine facilities to use 1.12

9level clerk 1m pull order from printer
sort by Due Date
5level clerk 3-5m pick up order
determine no facilities available. Send to Engineering
9level clerk 3m log order in held service order database
Engineering ? ?
9level clerk 1m pull order from printer
sort by Due Date
log in held service order database
5level clerk 10-15m assign order in OS/Plant & COSMOS
update service order and distribute in OS/Order
9level clerk 2m log out of held service order database

LAC

9level	5level
$.98 \times 1 = .98$	$.98 \times 15 = 14$
$.02 \times 7 = 14$	$.02 \times 20 = .4$
	15.1

RCMAC:

100% fall out for manual translation

92% are manually translated via MARCH

5level clerk 2m pull order from OS/Order printer
pull translation document from INS printer
sort by CO
15m input into MARCH

8% reject from MARCH

5level clerk 1m pull order from OS/Order printer
pull translation document from INS printer
sort by CO
15m input into MARCH
1m print reject from MARCH
6m correct reject and input to MARCH

RCMAC

5 level
$.92 \times 17 = 15.64$
$.08 \times 23 = 1.84$
17.48

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5. Establish ISDN Centrex 2000 exchange access line per line

Assumption: none

LAC:

100% fall out for manual assignment

90% manually assigned

100% fall out for manual translation

90% are manually translated via MARCH

5level clerk 2m pull order from OS/Order printer
pull translation document from INS printer
sort by CO
5m input into MARCH

10% reject from MARCH

5level clerk 1m pull order from OS/Order printer
pull translation document from INS printer
sort by CO
5m input into MARCH
2m print reject from MARCH
2m correct reject and input to MARCH again

RCMAC 5level

$$.9 \times 7 = 6.3$$

$$.1 \times 10 = 1$$

$$\underline{7.3}$$

6. Establish ISDN single exchange access line per line

Assumption: none

LAC:

100% fall out for manual assignment

9level clerk 1m pull order from printer
sort by Due Date

5level clerk 10m pick up order
assign order in OS/Plant and COSMOS
update service order and distribute on in OS/Order

LAC

9 level

5 level

$$1.0 \times 1 = 1$$

$$1.0 \times 10 = 10$$

RCMAC:

100% fall out for manual translation

90% are manually translated via MARCH

5level clerk 2m pull order from OS/Order printer
pull translation document from INS printer
sort by CO
5m input into MARCH

10% reject from MARCH

5level clerk 1m pull order from OS/Order printer
pull translation document from INS printer
sort by CO
5m input into MARCH
2m print reject from MARCH
3m correct reject and input to MARCH again

RCMAC

5 level

$$.9 \times 7 = 6.3$$

$$.1 \times 10 = 1.1$$

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7. Establish COCOTS/Coinless exchange access line per line

Assumption: none

LAC:

92% flow through - no human intervention

8% fall out for manual assignment

9level clerk	1m	pull order from printer
		sort by Due Date
5level clerk	5m	pick up order
		assign order in OS/Plant and COSMOS
		update service order and distribute on in OS/Order

$$\begin{array}{r|l} \text{LAC} & \\ \hline 9 \text{ level} & 5 \text{ level} \\ \hline .08 \times 1 = .08 & .08 \times 5 = .4 \end{array}$$

RCMAC:

90% flow through - no human intervention

10% fall out for manual translation

5level clerk	1m	pull order from printer
		sort by CO
	2m	input into MARCH

2% reject from MARCH

5level clerk	1m	pull order from printer
		sort by CO
	2m	input into MARCH
	2m	correct reject and input to MARCH again

$$\begin{array}{r|l} \text{RCMAC} - 5 \text{ level} & \\ \hline 1 \times 3 = .3 & \\ \hline .02 \times 5 = .1 & \\ \hline .4 & \end{array}$$

8. Establish semi public exchange access line per line

Assumption: Same as number 7 above.

$$\begin{array}{r|l} \text{LAC} & \\ \hline 9 \text{ level} & 5 \text{ level} \\ \hline .08 \times 1 = .08 & .08 \times 5 = .4 \end{array}$$

9. Change from one type or grade of non residence exchange access line to another

Assumption: No removal activity. Assume if change back to original - Same as installation data.

$$\begin{array}{r|l} \text{RCMAC} - 5 \text{ level} & \\ \hline 1 \times 3 = .3 & \\ \hline .02 \times 5 = .1 & \\ \hline .4 & \end{array}$$

10. Change from one type or grade of residence exchange access line to another

Assumption: Same as number 9 above.

11. Establish or change billing arrangements associated with a 1FB exchange access line per line

No activity in LAC or RCMAC

12. Establish or change billing arrangements associated with a 1FB exchange access line per line

No activity in LAC or RCMAC

13. Establish or change billing arrangements associated with a residence exchange access line per line

No activity in LAC or RCMAC

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**1995 NONRECURRING ACTIVITY FOR
HUNT, NON-HUNT, & PBX TRUNKS**

	<u>1995 Activity</u>	<u>Percentage</u>
Non - Hunt	28,424	63.2%
Hunt	13,471	30.0%
PBX (Including DID Trunks)	3,054	6.8%
Total	44,949	100%

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SOURCE:

1995 AIMS Activity

PROC CODE	USOC	TOTAL \$	TOTAL QTY
NBLCX20	1CNGX	1,801.57	30
NBLCX20	1CNKX	2,467.67	98
NBLCX20	1CNZX	1,675.00	67
NBLCX20	1NFAX	1,348.36	52
NBLCX20	1NFSX	31,393.07	729
NBLCX20	1NFTX	44,320.56	1606
NBLCX20	FAYBX	3,000.00	0
NBLCX20	PF5GX	31.50	1
NBLCX20	PF5UA	99.00	2
NBLCX20	PF5UX	1,252.39	35
NBLCX20	RHY	468.50	56
NBLCX20	RHZ	174.76	26
NBLCX20	RJ2	2,941.90	31
NBLCX20	ZZCFG	57.78	2
NBLCX90		184,903.72	535
NBLCX90	1CNUX	839.97	27
NBLCX90	1NF1X	1,864.38	93
NBLCX90	1NFAX	93,176.85	4753
NBLCX90	1NFFX	103.70	5
NBLCX90	1NFOX	82.96	4
NBLCX90	1NFUX	161,678.59	8217
NBLCX90	C3CSS	308,313.37	1041
NBLCX90	C9F2A	855.89	18
NBLCX90	C9FUA	11,651.91	322
NBLCX90	E6GUR	792.00	132
NBLCX90	E9GUR	216.00	36
NBLCX90	EHY	100.00	1
NBLCX90	LSN3A	25.93	1
NBLCX90	NRN	377,020.06	0
NBLCX90	RJ2	20,688.20	218
NBLCX90	RJ3	191.20	8
NBLCXC		27,784.36	35
NBLCXC	1LTFN	124.48	8
NBLCXC	1LTFP	186.72	12
NBLCXC	DYWG	10.27	10
NBLCXC	DYWP	58.39	3
NBLCXC	E3P	18.00	3
NBLCXC	FRK05	163.80	20
NBLCXC	RX3	539.10	45
NBLCXC	XCHBA	69.87	3
NBLCXZZ		382.40	253
NBLCXZZ	1LTFN	15.56	1
NBLCXZZ	26K2X	458.23	35
NBLCXZZ	2DF2X	1,039.65	40
NBLCXZZ	E6GNC	6.00	1
NBLCXZZ	EZB2X	122.98	3

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NBLCXZZ NRN	3,490.08	0
NBLCXZZ RJ2	284.70	3
NBLCXZZ RX3	1,000.00	80
NBLCXZZ RX4	125.00	10
NBLCXZZ RX6	25.00	2
NBLCXZZ RXL	94.75	37
NBLCXZZ RXR	1,150.00	92
NBLCXZZ ZZCFF	109.00	1
NBLEA1F	323,133.70	1420
NBLEA1F 1FR	4,102,261.35	169440
NBLEA1F 1FR-K	31.50	1
NBLEA1F 1FR-M	6,979.70	245
NBLEA1F C3CSS	34.56	0
NBLEA1F JK3	0.00	1
NBLEA1F OBK1X	9.00	1
NBLEA1F OBK2X	117.00	13
NBLEA1F RJ2	25,433.20	268
NBLEA1F RJ3	334.60	14
NBLEA1	33,175.32	35
NBLEA1 LW1	11,011.31	504
NBLEA1 LW1-M	31.50	1
NBLEA1 R1M	14,129.29	675
NBLEA1 R1M-M	31.50	1
NBLEA1 RJ2	4,365.40	46
NBLEAAL AFH	264,579.13	10420
NBLEAAL AKN	692.87	28
NBLEAAL AKR	308.40	12
NBLEAFX	242.46	11
NBLEAFX 1LHB4	94.70	1
NBLEAFX FXSTS	1,247.62	22
NBLEAFX P3N	94.70	1
NBLEAFX PMN	622.54	7
NBLEAM 2FR	245.08	11
NBLEAM 2MR	48.50	2
NBLEAO 1LLEP	702.65	13
NBLEAO 1LVJJ	3,669.75	45
NBLEAO 1LVJP	3,753.90	46
NBLEAO WQQD	22.54	1
NBLEAZZ	122,202.83	5547
NBLILBR 13Q	1,210.00	15
NBLILBR 13Q-M	288.00	3
NBLILBR 1BQ	3,818.75	3
NBLILBR 1BQ-M	288.00	4
NBLILBR DXE	110.04	14
NBLILBR EFV	30.00	6
NBLILBR LNM1X	518.60	20
NBLILBR LOY	68,924.52	954
NBLILBR LTQ1X	1,192.78	46
NBLILBR LTQ3X	51.86	2

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NBLILBR LTQ4X	155.58	6
NBLILBR NW9AL	62.28	12
NBLILBR NZQ	36.33	7
NBLILBR REA1Q	596.39	23
NBLILBR RJ2	189.80	2
NBLILBR WZBK3	250.00	1
NBLILBR WZBL2	87.50	1
NBLILBR WZBM	87.50	1
NBLILBR WZBM	87.50	1
NBLILBR WZBM	12,000.00	96
NBLILPK LTQ4X	337.09	13
NBLILPR DZG	4,221.00	201
NBLILPR DZHP	58,072.00	280
NBLILPR T1KGC	15,624.00	744
NBLILPR T1KGF	294.00	14
NBLILPR T1KGJ	2,814.00	134
NBLILPR T1KMC	1,575.00	75
NBLILPR ZPT1X	52,290.00	82
NBLLA1F	271.00	16
NBLLA1F 1FR	114,649.52	4660
NBLLA1F 1FR-M	126.00	4
NBLLA1F 6434V	8.00	1
NBLLA1F RJ2	664.30	7
NBLLAAL AFH	2,684.43	107
NBLLAM 2FR	38.20	2
NBLLAOF 1LLEP	54.05	1
NBLLAZZ	4,372.15	196
NBLPXD NDT	280.00	2
NBLPXD D7W	173,270.20	225
NBLPXD T2MCX	1,620.00	81
NBLPXD T2P1X	6,340.00	317
NBLPXD T2PCX	30,180.00	1509
NBLPXD T2POX	10,880.00	544
NBLPXD TZR	17,820.00	891
NBLPXD WZBL6	600.00	1
NBLPXTF	850,237.28	538
NBLPXTF FFB10	323.99	7
NBLPXTF FFB1A	89.89	4
NBLPXTF FFB1B	468.00	12
NBLPXTF FFB1C	503.34	11
NBLPXTF FFB1D	70.00	13
NBLPXTF FFB1E	475.68	9
NBLPXTF FFB1F	283.28	19
NBLPXTF FFB1G	136.48	12
NBLPXTF FFB1H	355.28	7
NBLPXTF FFB1J	309.07	2
NBLPXTF FFB1K	58.39	7
NBLPXTF FFB1M	58.39	2
NBLPXTF FFB1O	221.59	7

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NBLPXTF FFBH3	31.50	3	
NBLPXTF FFBHO	40.50	1	
NBLPXTF FFBHV	58.39	1	
NBLPXTF FFBQF	0.00	1	
NBLPXTF FFBS2	58.39	2	
NBLPXTF FFBS9	0.00	1	
NBLPXTF FFBSM	267.89	9	
NBLPXTF FFBSS	94.50	1	
NBLPXTF FFBSU	58.39	3	
NBLPXTF FFBS	0.00	2	
NBLPXTF FFBVF	0.00	1	
NBLPXTF FMA1L	58.39	1	
NBLPXTF GFFJC	40.50	1	
NBLPXTF GFFYC	207.00	6	
NBLPXTF JFBXX	116.78	3	
NBLPXTF KFJAA	43.90	1	
NBLPXTF KFJAB	0.00	1	
NBLPXTF RJ2	11,482.90	121	
NBLPXTF RJ3	47.80	2	
NBLPXT	439,256.50	7	
NBLPXT FMA1H	58.39	2	
NBLPXT FMBS	0.00	1	
NBLPXT FNF1M	40.50	1	
NBLPXT FNFHZ	40.50	1	
NBLPXT GFLJC	76.50	1	
NBLPXT RJ2	284.70	3	
NBLEA1F 1BH	348,852.32	8069	Hunt
NBLEA1F 1BHF	12.24	1	Hunt
NBLEA1F 1BHFN	121.96	10	Hunt
NBLEA1F 1BHFF	49.78	1	Hunt
NBLEA1F 1BHMF	12.24	1	Hunt
NBLEA1F 1FH	153,184.68	3762	Hunt
NBLEA1 1MH	1,622.26	41	Hunt
NBLEA1 1MK	4,424.70	94	Hunt
NBLEA1 B1A	57,629.04	1219	Hunt
NBLA1F 1BH	7,207.06	169	Hunt
NBLA1F 1FH	4,154.26	104	Hunt
NBLEA1F 1FB	426,994.07	9787	Non-Hunt
NBLEA1F 1FB-K	508.00	13	Non-Hunt
NBLEA1F 1FB-M	45,016.88	1272	Non-Hunt
NBLEA1F 1FL	681,145.12	14890	Non-Hunt
NBLEA1F 1FLFN	48.96	4	Non-Hunt
NBLEA1F 1FLN	12.24	1	Non-Hunt
NBLEA1F 1FLNG	74.26	3	Non-Hunt
NBLEA1F 1FLNP	12.24	1	Non-Hunt
NBLEA1F 1FLNT	12.24	1	Non-Hunt
NBLEA1F 1FLNX	48.00	1	Non-Hunt
NBLEA1 1MB	6,443.48	152	Non-Hunt
NBLEA1 1MB-M	434.50	10	Non-Hunt

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NBLEA1	1ML	14,632.88
NBLEA1	B1M	57,287.56
NBLEA1	B1M-M	1,605.66
NBLLA1F	1FB	10,119.44
NBLLA1F	1FB-M	1,421.42
NBLLA1F	1FL	15,423.58
NBLLA1F	1FLN	49.78
NBLPXD	TDD	40,396.64
NBLPXD	TUV	199.12
NBLPXD	TVO	448.02
NBLPXTF	TFC	70,948.22
NBLPXTF	TFN	988.22
NBLPXTF	TFU13	6,115.82
NBLPXTF	TTTXA	581.34
NBLPXTF	TTTXB	292.32
NBLPXTF	XFBXX	8,946.94
NBLPXTF	XLBXX	313.25
NBLPXTF	XLEXX	508.50
NBLPXTF	XMHX	202.50
NBLPXT	TKV	647.14
NBLPXT	TMC	666.66
NBLPXT	TV1	298.68
NBLPXT	TVW	172.18
NBLPXT	TVX	1,367.72
NBLPXT	TZB	1,306.52
NBLPXT	XLBXX	233.56
NBLPXT	XMHX	0.00
NBLPXT	ZZCBJ	156.96

322	Non-Hunt
1306	Non-Hunt
50	Non-Hunt
231	Non-Hunt
37	Non-Hunt
342	Non-Hunt
1	Non-Hunt
871	BX DID Trun
4	BX DID Trun
9	BX DID Trun
1607	PBX Trunk
47	PBX Trunk
123	PBX Trunk
12	PBX Trunk
18	PBX Trunk
218	PBX Trunk
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OVERHEAD ALLOCATOR

MCI Typo.
EX NO. 31
CDR 11-26-97

OVERHEAD ALLOCATOR

Overhead Allocator

INTRASTATE -- OHIO

Acct.	Class of Plant	Field Code	Total Directly Assigned Costs (A)	Total Fully Assigned Costs (B)	Percent of Total Invest (C)	Weighted Directly Assigned ACF (D)=(A*C)	Weighted Fully Assigned ACF (E)=(B*C)
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General Support Assets

2111	Land	20C	24.69	32.18	0.34%	0.08	0.11
2121	Buildings-Large	10C	31.47	38.96	14.05%	4.42	5.47

Central Office Equipment

2212	Digital Electronics	377C	36.05	43.54	21.64%	7.80	9.42
2220	Operator Systems - Digital	117C	46.47	53.96	0.42%	0.20	0.23
2232.11	DDS Circuit Equipment	157C, 257C, 357C	40.28	47.77	17.24%	6.94	8.23

Information Origination/Termination Equipment

2351	Public Telephone Equip	189C, 288C, 988C	78.38	85.87	0.54%	0.43	0.47
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Cable & Wire Facilities

2411	Pole Lines	1C	39.53	47.02	3.50%	1.38	1.64
2421.11	Aerial Cable - Metallic	22C	41.80	49.29	13.52%	5.65	6.67
2421.12	Aerial Cable - Fiber	822C	31.30	38.79	0.88%	0.28	0.34
2422.11	Underground Cable - Metallic	5C	38.10	45.59	9.49%	3.62	4.33
2422.12	Underground Cable - Fiber	85C	28.36	35.85	1.63%	0.46	0.59
2423.11	Buried Cable - Metallic	45C	36.14	43.63	8.43%	3.05	3.68
2423.12	Buried Cable - Fiber	845C	28.71	36.20	0.03%	0.01	0.01
2426.1	Intrabuilding Network Cable - Metallic	12C	40.69	48.18	2.20%	0.89	1.06
2426.2	Intrabuilding Network Cable - Fiber	812C	32.77	40.26	0.26%	0.09	0.11
2441	Conduit Systems		26.88	34.17	5.83%	1.56	1.99

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Total Weighted Annual Charge Factors 36.85 44.34

Overhead Allocator (Tot Col E/Tot Col D) 1.20

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AVERAGE PLANT INVESTMENT - TOTAL COMPANY
FOR THOSE ACCOUNTS AFFECTED BY ACFs
DATA YEAR: 1995

ITEM	ACCOUNT	ACCT CODE	1/1/95 INVESTMENT A	12/31/95 INVESTMENT B	AVERAGE INVESTMENT C=(A+B)/2	Percentage Of Total (C/Tot C)
1 LAND	2111	20C	4,346,052	4,301,463	4,323,758	0.34%
2 BUILDINGS	2121	10C	125,470,678	126,428,999	125,949,839	
3 LEASEHOLD IMPROVEMENTS	2682	510C	17,803,578	17,607,993	17,705,786	
4 CAPITAL LEASES	2681	---	36,152,623	37,386,858	36,769,741	
5 TOTAL BUILDINGS (LNS 2-4)			179,426,879	181,423,850	180,425,365	14.05%
6 DIGITAL ELECTRONIC	2212	377C	268,305,816	287,662,805	277,984,311	21.64%
7 OPERATOR SYSTEMS	2220	117C	6,444,333	4,398,554	5,421,444	0.42%
8 DDS CIRCUIT	2232.11	157,257,357	215,499,584	227,314,321	221,406,953	17.24%
9 PUBLIC TELEPHONE EQUIP	2351	189,289,998	6,713,503	7,269,180	6,991,342	0.54%
10 POLE LINES	2411	1C	44,233,600	45,606,742	44,920,171	3.50%
11 AERIAL CABLE	2421.11	22C	169,779,043	177,676,725	173,727,884	13.52%
12 METALLIC	2421.12	822C	10,434,545	12,218,175	11,326,360	0.88%
13 UNDERGROUND CABLE	2422.11	5C	120,423,023	123,470,872	121,946,948	9.49%
14 METALLIC	2422.12	85C	20,211,494	21,768,555	20,990,025	1.63%
15 BURIED CABLE	2423.11	45C	104,630,227	111,953,194	108,291,711	8.43%
16 NONMETALLIC	2423.12	845C	411,656	408,261	409,959	0.03%
17 INTRABLDG NETWORK	2426.1	12C	28,025,814	28,391,982	28,208,898	2.20%
18 CABLE	2426.2	812C	3,035,889	3,748,480	3,392,185	0.26%
19 CONDUIT SYSTEMS	2441	4C	73,130,190	76,660,519	74,895,355	5.83%
20 Total Investment Affected by Annual Charge Factors			1,255,051,648	1,314,273,679	1,284,662,664	100.00%

Source of Investment Balances: Lns. 1-4 - Part 64 Ledger, DL146-02; Lns 6-19 - Quarterly 2A

32
EX-100

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FEB 13 1960

COMMUNICATIONS
Phone Utilities Commission

EXHIBIT NOs.
32-35

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 1
PUBLIC COIN

MCI Defto.
EX. No. 32
DJH 11-26-97

INDEX

BAND 1

Public Coin

Copper Study -	Results.....	Tab 1
	Outputs.....	Tab 2
	Inputs.....	Tab 3
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Digital Loop Carrier Study -	Results	Tab 5
	Outputs.....	Tab 6
	Inputs.....	Tab 7
	Miscellaneous	Tab 8

A B C D E F G	LOOP COST ANALYSIS TOOL										Bellcore [®]	
	PROSPECTIVE INVESTMENT SUMMARY REPORT										LCAT Ref: 1.0.4	
	C:\123R24\LCATR039\RESULTS1										Issued: 7/31/95	
	OUTPUT - REPORT D										STUDY YR: 1996	
	SHEET 1 of 1										TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL										RUN DATE: 28-Jan-97	
	CITY / AREA: CINCINNATI										TIME: 11:30	
	STATE / PROV: OHIO											
	JOB IDENT: CINCINNATI											
	CIRCUIT DESIGN: TOTAL TECHNOLOGIES											
	LOOP SPAN DIVISION: ALL LOOP SPANS											
	SERVICE CLASS: BAND 1 - PUBLIC COIN PI											
	TOTAL LOOP LENGTH: 5403 FEET											
0	Loop Span Set Weighting: 1										UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
1											WEIGHTED	
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CM123R24\LCATR039\RESULTS1
OUTPUT - COST_REPORTS

Bellcore (R)
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL
COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 0 - 12000 FEET INTRASTATE

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0-Jan-97
SVC LEVEL	NARBAND		
CST METH	UN INCR	INV LEVEL	ANALYST

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PROPRIETARY - NOT FOR USE/DISCLOSURE OUTSIDE Bellcore WITHOUT LICENSED PERMISSION

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55C:\123R24\LCATR039\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:30COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - PUBLIC COIN PI
TOTAL LOOP LENGTH: 6403 FEET

Circuit Design Mix: 1.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	TOTAL
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE
EQPT				
PLANT CODE				
ITEM DESCRIPTION				
SHARED RESOURCES				
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES				
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.47	\$ 1.90
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.55
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 2.81	\$ 3.60
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.11	\$ 0.45
CONDUIT	4C	\$ 0.00	\$ 1.00	\$ 1.28
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.39
CIRCUIT DESIGN SUMMARY				\$ 10.23

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GCA\123R24\LCATR039\RESULTS:
OUTPUT - WORKSHEET D
SHEET 2 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Belcore** (R)LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - PUBLIC COIN PI
TOTAL LOOP LENGTH: 6403 FEETSTUDY YR: 1996
TEST CASE: 1
DATE: 28-Jan-97
TIME: 11:30

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE
EQPT CODE				

PLANT

CODE

ITEM DESCRIPTION

SHARED RESOURCES

LAND	20C
BUILDING	10C
BLDG ENTRANCE CABLE	12C
INTRABLDG CABLE	52C
AERIAL CABLE (COPPER)	22C
BURIED CABLE (COPPER)	45C
UNDERGROUND (CU) CA.	5C
CO EQPT - LOW CAP TERM	257C
CO EQPT - LOW CAP CHAN	257C
CO EQPT - HI CAP TERM	857C
CO EQPT - HI CAP CHAN	857C
CO EQPT - ANALOG SW	77C
CO EQPT - DIGITAL SW	377C
AERIAL CABLE (FIBER)	822C
BURIED CABLE (FIBER)	845C
UNDERGROUND (FO) CA.	85C
CONNECTORS	57C
MISC. COM EQP & PWR	57C
POLE LINE	1C
CONDUIT	4C

\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
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\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0

DIRECT RESOURCES

LAND	20C
BUILDING	10C
BLDG ENTRANCE CABLE	12C
INTRABLDG CABLE	52C
AERIAL CABLE (COPPER)	22C
BURIED CABLE (COPPER)	45C
UNDERGROUND (CU) CA.	5C
CO EQPT - P GAIN TERM	257C
CO EQPT - P GAIN CHAN	257C
CO EQPT - FO MUX TERM	857C
CO EQPT - FO MUX CHAN	857C
CO EQPT - ANALOG SW	77C
CO EQPT - DIGITAL SW	377C
AERIAL CABLE (FIBER)	822C
BURIED CABLE (FIBER)	845C
UNDERGROUND (FO) CA.	85C
CONNECTORS	57C
MISC. COM EQP & PWR	57C
POLE LINE	1C
CONDUIT	4C

\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0

SPAN SUMMARY

CIRCUIT DESIGN SUMMARY

\$0	\$0
\$0	\$0

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A
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GC:\123R24\LCATR039\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:30COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - PUBLIC COIN PI
TOTAL LOOP LENGTH: 6403 FEET

Technology Type Mix: 0.0000 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

TECHNOLOGY

	PLANT NAME	SEG. NAME	PRIMARY	FEEDER	EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
0	PLANT	EQPT								
1	CODE									
2	ITEM DESCRIPTION									
3	SHARED RESOURCES									
4	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
5	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
6	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
7	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
8	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
9	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
10	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24										
25	DIRECT RESOURCES									
26	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
29	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
30	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.47	\$ 1.43	\$ 0.00	\$ 1.90	\$ 1.90	\$ 0.0000
31	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.55	\$ 0.00	\$ 0.55	\$ 0.55	\$ 0.0000
32	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.81	\$ 0.79	\$ 0.00	\$ 3.60	\$ 3.60	\$ 0.0000
33	CO EQPT - P GAIN TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	CO EQPT - P GAIN CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
35	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
36	CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
37	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
40	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
41	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
44	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 0.00	\$ 0.00	\$ 0.11	\$ 0.11	\$ 0.0000
45	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 1.00	\$ 0.28	\$ 0.00	\$ 1.28	\$ 1.28	\$ 0.0000
46										
47	SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.39	\$ 3.00	\$ 2.45	\$ 10.23	\$ 10.23	\$ 0.00
48	TECHNOLOGY DESIGN SUMMARY								\$ 10.23	
49										
50										
51										
52										
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CA123R24\LCATR039\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 4 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC CCIN PI		RUN DATE: 28-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6403 FEET		TIME: 11:30			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-	
EQPT		INTERFACE				LOOP	
CODE						TOTAL	
PLANT						LOOP	
ITEM DESCRIPTION						TOTAL	
SHARED RESOURCES						WEIGHTED	
LAND		20C				\$0	
BUILDING		10C				\$0	
BLDG ENTRANCE CABLE		12C				\$0	
INTRABLDG CABLE		52C				\$0	
AERIAL CABLE (COPPER)		22C				\$0	
BURIED CABLE (COPPER)		45C				\$0	
UNDERGROUND (CU) CA.		5C				\$0	
CO EQPT - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
DIRECT RESOURCES							
LAND		20C				\$0	
BUILDING		10C				\$0	
BLDG ENTRANCE CABLE		12C				\$0	
INTRABLDG CABLE		52C				\$0	
AERIAL CABLE (COPPER)		22C				\$0	
BURIED CABLE (COPPER)		45C				\$0	
UNDERGROUND (CU) CA.		5C				\$0	
CO EQPT - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
SPAN SUMMARY		\$0		\$0		\$0	

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C:\123R24\LCATR039\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN P1		RUN DATE: 28-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6403 FEET		TIME: 11:30			
Circuit Design Mix: [0.0000]		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY EXTENSION		SUB- INTERFACE		TOTAL LOOP	
EQPT							
CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
LAND		20C				\$0 \$0	
BUILDING		10C				\$0 \$0	
BLDG ENTRANCE CABLE		12C				\$0 \$0	
INTRABLDG CABLE		52C				\$0 \$0	
AERIAL CABLE (COPPER)		22C				\$0 \$0	
BURIED CABLE (COPPER)		45C				\$0 \$0	
UNDERGROUND (CU) CA.		5C				\$0 \$0	
CO EQPT - LOW CAP TERM		257C				\$0 \$0	
CO EQPT - LOW CAP CHAN		257C				\$0 \$0	
CO EQPT - HI CAP TERM		857C				\$0 \$0	
CO EQPT - HI CAP CHAN		857C				\$0 \$0	
CO EQPT - ANALOG SW		77C				\$0 \$0	
CO EQPT - DIGITAL SW		377C				\$0 \$0	
AERIAL CABLE (FIBER)		822C				\$0 \$0	
BURIED CABLE (FIBER)		845C				\$0 \$0	
UNDERGROUND (FO) CA.		85C				\$0 \$0	
CONNECTORS		57C				\$0 \$0	
MISC. COM EQP & PWR		57C				\$0 \$0	
POLE LINE		1C				\$0 \$0	
CONDUIT		4C				\$0 \$0	
DIRECT RESOURCES							
LAND		20C				\$0 \$0	
BUILDING		10C				\$0 \$0	
BLDG ENTRANCE CABLE		12C				\$0 \$0	
INTRABLDG CABLE		52C				\$0 \$0	
AERIAL CABLE (COPPER)		22C				\$0 \$0	
BURIED CABLE (COPPER)		45C				\$0 \$0	
UNDERGROUND (CU) CA.		5C				\$0 \$0	
CO EQPT - LOW CAP TERM		257C				\$0 \$0	
CO EQPT - LOW CAP CHAN		257C				\$0 \$0	
CO EQPT - HI CAP TERM		857C				\$0 \$0	
CO EQPT - HI CAP CHAN		857C				\$0 \$0	
CO EQPT - ANALOG SW		77C				\$0 \$0	
CO EQPT - DIGITAL SW		377C				\$0 \$0	
AERIAL CABLE (FIBER)		822C				\$0 \$0	
BURIED CABLE (FIBER)		845C				\$0 \$0	
UNDERGROUND (FO) CA.		85C				\$0 \$0	
CONNECTORS		57C				\$0 \$0	
MISC. COM EQP & PWR		57C				\$0 \$0	
POLE LINE		1C				\$0 \$0	
CONDUIT		4C				\$0 \$0	
SPAN SUMMARY		\$0 \$0		\$0		\$0 \$0	

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A B C D E F G	C:\123R24\LCATR039\RESULTS1									
	OUTPUT - WORKSHEET D									
	SHEET 6 of 10									
	COMPANY: CINCINNATI BELL TEL									
	CITY / AREA: CINCINNATI									
	STATE / PROV: OHIO									
	JOB IDENT: CINCINNATI									
	CIRCUIT DESIGN: 3 FOMUX									
	LOOP SPAN DIVISION: ALL LOOP SPANS									
	SERVICE CLASS: BAND 1 - PUBLIC COIN PI									
	TOTAL LOOP LENGTH: 6403 FEET									
	LCAT Rel: 1.0.4									
	Issued: 7/31/95									
	STUDY YR: 1996									
	TEST CASE: 1									
	RUN DATE: 28-Jan-97									
	TIME: 11:30									
	Circuit Design Mix: 1.0000									
	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
	PLANT NAME --- FEEDER --- SUB --- DISTRIBUTION NETWORK									
	EQPT CODE PRIMARY EXTENSION SUB- INTERFACE TOTAL LOOP WEIGHTED TOTAL LOOP									
	PLANT									
	ITEM DESCRIPTION									
	SHARED RESOURCES									
	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	DIRECT RESOURCES									
	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45	
	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.47	\$ 1.43		\$ 1.90	\$ 1.90	
	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.55		\$ 0.55	\$ 0.55	
	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 2.81	\$ 0.79		\$ 3.60	\$ 3.60	
	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	POLE LINE	1C	\$ 0.00		\$ 0.11	\$ 0.34		\$ 0.45	\$ 0.45	
	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00	
	SPAN SUMMARY		\$ 0.00	\$ 0.00		\$ 2.45		\$ 10.23	\$ 10.23	
								\$ 10.23		

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LOOP COST ANALYSIS TOOL										Belcore	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
C:\123R24\LCATR039\RESULTS1										Issued: 7/31/95	
OUTPUT - WORKSHEET D										STUDY YR: 1996	
SHEET 7 of 10										TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL										RUN DATE: 28-Jan-97	
CITY / AREA: CINCINNATI										TIME: 11:30	
STATE / PROV: OHIO											
JOB IDENT: CINCINNATI											
CIRCUIT DESIGN: 4 FOMUX											
LOOP SPAN DIVISION: ALL LOOP SPANS											
SERVICE CLASS: BAND 1 - PUBLIC COIN P1											
TOTAL LOOP LENGTH: 5403 FEET											
Circuit Design Mix: 10.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL LOOP		WEIGHTED TOTAL LOOP			
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE			
EQPT											
PLANT		CCODE									
ITEM DESCRIPTION											
SHARED RESOURCES											
LAND		20C								\$0	
BUILDING		10C								\$0	
BLDG ENTRANCE CABLE		12C								\$0	
INTRABLDG CABLE		52C								\$0	
AERIAL CABLE (COPPER)		22C								\$0	
BURIED CABLE (COPPER)		45C								\$0	
UNDERGROUND (CU) CA.		5C								\$0	
CO EQPT - LOW CAP TERM		257C								\$0	
CO EQPT - LOW CAP CHAN		257C								\$0	
CO EQPT - HI CAP TERM		857C								\$0	
CO EQPT - HI CAP CHAN		857C								\$0	
CO EQPT - ANALOG SW		77C								\$0	
CO EQPT - DIGITAL SW		377C								\$0	
AERIAL CABLE (FIBER)		822C								\$0	
BURIED CABLE (FIBER)		845C								\$0	
UNDERGROUND (FO) CA.		85C								\$0	
CONNECTORS		57C								\$0	
MISC. COM EQP & PWR		57C								\$0	
POLE LINE		1C								\$0	
CONDUIT		4C								\$0	
DIRECT RESOURCES											
LAND		20C								\$0	
BUILDING		10C								\$0	
BLDG ENTRANCE CABLE		12C								\$0	
INTRABLDG CABLE		52C								\$0	
AERIAL CABLE (COPPER)		22C								\$0	
BURIED CABLE (COPPER)		45C								\$0	
UNDERGROUND (CU) CA.		5C								\$0	
CO EQPT - LOW CAP TERM		257C								\$0	
CO EQPT - LOW CAP CHAN		257C								\$0	
CO EQPT - HI CAP TERM		857C								\$0	
CO EQPT - HI CAP CHAN		857C								\$0	
CO EQPT - ANALOG SW		77C								\$0	
CO EQPT - DIGITAL SW		377C								\$0	
AERIAL CABLE (FIBER)		822C								\$0	
BURIED CABLE (FIBER)		845C								\$0	
UNDERGROUND (FO) CA.		85C								\$0	
CONNECTORS		57C								\$0	
MISC. COM EQP & PWR		57C								\$0	
POLE LINE		1C								\$0	
CONDUIT		4C								\$0	
SPAN SUMMARY				\$0		\$0		\$0		\$0	

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C:\123R24\LCATR039\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 8 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 5 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PI		RUN DATE: 28-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6493 FEET		TIME: 11:30			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	WEIGHTED	
	SEG. NAME	PRIMARY	EXTENSION	SUB-	LOOP	TOTAL	
	EQPT						
	PLANT						
	CODE						
	ITEM DESCRIPTION						
	SHARED RESOURCES						
	LAND	20C			\$0	\$0	
	BUILDING	10C			\$0	\$0	
	BLDG ENTRANCE CABLE	12C			\$0	\$0	
	INTRABLDG CABLE	52C			\$0	\$0	
	AERIAL CABLE (COPPER)	22C			\$0	\$0	
	BURIED CABLE (COPPER)	45C			\$0	\$0	
	UNDERGROUND (CU) CA.	5C			\$0	\$0	
	CO EQPT - LOW CAP TERM	257C			\$0	\$0	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$0	
	CO EQPT - HI CAP TERM	857C			\$0	\$0	
	CO EQPT - HI CAP CHAN	857C			\$0	\$0	
	CO EQPT - ANALOG SW	77C			\$0	\$0	
	CO EQPT - DIGITAL SW	377C			\$0	\$0	
	AERIAL CABLE (FIBER)	822C			\$0	\$0	
	BURIED CABLE (FIBER)	845C			\$0	\$0	
	UNDERGROUND (FO) CA.	85C			\$0	\$0	
	CONNECTORS	57C			\$0	\$0	
	MISC. COM EQP & PWR	57C			\$0	\$0	
	POLE LINE	1C			\$0	\$0	
	CONDUIT	4C			\$0	\$0	
	DIRECT RESOURCES						
	LAND	20C			\$0	\$0	
	BUILDING	10C			\$0	\$0	
	BLDG ENTRANCE CABLE	12C			\$0	\$0	
	INTRABLDG CABLE	52C			\$0	\$0	
	AERIAL CABLE (COPPER)	22C			\$0	\$0	
	BURIED CABLE (COPPER)	45C			\$0	\$0	
	UNDERGROUND (CU) CA.	5C			\$0	\$0	
	CO EQPT - LOW CAP TERM	257C			\$0	\$0	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$0	
	CO EQPT - HI CAP TERM	857C			\$0	\$0	
	CO EQPT - HI CAP CHAN	857C			\$0	\$0	
	CO EQPT - ANALOG SW	77C			\$0	\$0	
	CO EQPT - DIGITAL SW	377C			\$0	\$0	
	AERIAL CABLE (FIBER)	822C			\$0	\$0	
	BURIED CABLE (FIBER)	845C			\$0	\$0	
	UNDERGROUND (FO) CA.	85C			\$0	\$0	
	CONNECTORS	57C			\$0	\$0	
	MISC. COM EQP & PWR	57C			\$0	\$0	
	POLE LINE	1C			\$0	\$0	
	CONDUIT	4C			\$0	\$0	
	SPAN SUMMARY	\$0	\$0		\$0	\$0	

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C:\123R24\LCATR039\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 9 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PI		RUN DATE: 28-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6403 FEET		TIME: 11:30			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY EXTENSION SUB-		INTERFACE		LOOP	
EQPT							
CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
LAND 20C						\$0	\$0
BUILDING 10C						\$0	\$0
BLDG ENTRANCE CABLE 12C						\$0	\$0
INTRABLDG CABLE 52C						\$0	\$0
AERIAL CABLE (COPPER) 22C						\$0	\$0
BURIED CABLE (COPPER) 45C						\$0	\$0
UNDERGROUND (CU) CA. 5C						\$0	\$0
CO EQPT - LOW CAP TERM 257C						\$0	\$0
CO EQPT - LOW CAP CHAN 257C						\$0	\$0
CO EQPT - HI CAP TERM 857C						\$0	\$0
CO EQPT - HI CAP CHAN 857C						\$0	\$0
CO EQPT - ANALOG SW 77C						\$0	\$0
CO EQPT - DIGITAL SW 377C						\$0	\$0
AERIAL CABLE (FIBER) 822C						\$0	\$0
BURIED CABLE (FIBER) 845C						\$0	\$0
UNDERGROUND (FO) CA. 85C						\$0	\$0
CONNECTORS 57C						\$0	\$0
MISC. COM EQP & PWR 57C						\$0	\$0
POLE LINE 1C						\$0	\$0
CONDUIT 4C						\$0	\$0
DIRECT RESOURCES							
LAND 20C						\$0	\$0
BUILDING 10C						\$0	\$0
BLDG ENTRANCE CABLE 12C						\$0	\$0
INTRABLDG CABLE 52C						\$0	\$0
AERIAL CABLE (COPPER) 22C						\$0	\$0
BURIED CABLE (COPPER) 45C						\$0	\$0
UNDERGROUND (CU) CA. 5C						\$0	\$0
CO EQPT - LOW CAP TERM 257C						\$0	\$0
CO EQPT - LOW CAP CHAN 257C						\$0	\$0
CO EQPT - HI CAP TERM 857C						\$0	\$0
CO EQPT - HI CAP CHAN 857C						\$0	\$0
CO EQPT - ANALOG SW 77C						\$0	\$0
CO EQPT - DIGITAL SW 377C						\$0	\$0
AERIAL CABLE (FIBER) 822C						\$0	\$0
BURIED CABLE (FIBER) 845C						\$0	\$0
UNDERGROUND (FO) CA. 85C						\$0	\$0
CONNECTORS 57C						\$0	\$0
MISC. COM EQP & PWR 57C						\$0	\$0
POLE LINE 1C						\$0	\$0
CONDUIT 4C						\$0	\$0
SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	\$0

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A
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GC:\123R24\LCATR039\RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:30COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - PUBLIC COIN PI
TOTAL LOOP LENGTH: 8403 FEET

Technology Type Mix: 1.0000

UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

TECHNOLOGY

WEIGHTED

PLANT	SEG. NAME	PRIMARY	EXTENSION	SUB--	INTERFACE	TOTAL LOOP	TOTAL LOOP
ITEM DESCRIPTION	EQPT CODE						
SHARED RESOURCES							
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES							
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.47	\$ 1.43	\$ 0.00	\$ 1.9000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.55	\$ 0.00	\$ 0.5500
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.81	\$ 0.79	\$ 0.00	\$ 3.6000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 0.34	\$ 0.00	\$ 0.4500
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 1.00	\$ 0.28	\$ 0.00	\$ 1.2800
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 3.39	\$ 3.39	\$ 10.23	\$ 10.23

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C:\123R24\LCAT\CALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 8/31/95

10:31

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 0 - 12000 FEET

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARBAND	#CRTS
CST METH	UN INCR	INV LEVEL

1

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G:\TIM D.C.

LOOP COST ANALYSIS TOOL									
BASIC INVESTMENT WORKSHEET									
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL									
FACILITY TYPE: COPPER CABLE									
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC.)									
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE									
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OH O									
LCAT Release: 1.0.4 Issue Date: 8/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 28-Jan-97 TIME: 11:25									
SEGMENT LENGTH IN FEET	TYPE OF CABLE	FROM TABLE 2 - RELATIVE MIX OF TYPE OF PLANT	LENGTH SUBSET BY TYPE OF PLANT	FROM TABLE 4 - CABLE INVESTMENT PER PAIR FOOT	CABLE INVESTMENT PER PAIR	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
[A]		[B]	[C=A*B]	[D]	[E=C*D]		[F=E*ctr]	[F=E*ctr]	
638.0	AERIAL	0.590000	376.4	0.039700	14.94		0.00	0.00	
CONSIDERS:	BURIED	0.160000	102.1	0.065700	6.71		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.250000	159.5	0.056900	9.08		0.00	0.00	
CABLE									
Check =		1.000000	638.0						
OUTSIDE PLANT LOADINGS (NOTE 4)									
DROP WIRE ADJUSTMENT:									
AERIAL CA. =		0.0000	AIR DRYER LOADINGS:						
BURIED CA. =		0.0000	AERIAL CA. =		0.0000				
UNDERGRND =		0.0000	BURIED CA. =		0.0000				
			UNDERGRND =		0.0000				
OTHER INVESTMENT									
inv / unit lch: 0.0000									
POLE LINE FACTOR (PLF) = 0.0000									
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = 0.0000									
UG CONDUIT FACTOR (UCF) = 0.0000									
CONDUIT INVESTMENT (UTIL UNDGRND INVT x UCF) = \$ 13.39									
FOOTNOTES									
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.									
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO									
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)									

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C:\123R24\LCATCALC.DIST
 DIST PLNT - WORKSHEET A
 Sheet 2 of 3

LOOP COST ANALYSIS TOOL
 ACCOUNT INVESTMENT WORKSHEET
 SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

Bellcore
 LCAT Release: 1.0.4
 Issue Date: 8/31/95
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 28-Jan-97
 TIME: 11:25

COMPANY: CINCINNATI BELL TEL.
 CITY / AREA: CINCINNATI
 STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
 CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)
 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

PLANT / ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED					1.0000		
BUILDING	10C	F	SHARED					1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	14.94	1		\$ 15	0.3500		\$ 43
BURIED CABLE (COPPER)	45C	V	DIRECT	6.71	1		\$ 7	0.3500		\$ 19
UNDERGROUND (CU) CA.	5C	V	DIRECT	9.08	1		\$ 9	0.3500		\$ 26
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000		
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000		
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED					1.0000		
POLE LINE	1C	F	DIRECT	10.80	1		\$ 13	1.0000		\$ 11
CONDUIT	4C	F	DIRECT	13.39	1		\$ 13	1.0000		\$ 13

\$ 112
 \$ 112
 clarity

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FOOTNOTES
 NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.
 NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.
 AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;
 CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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C:\123R24\LCAT\CALC\DIST
DIST_PLANT - WORKSHEET A
Sheet 3 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-C.C. NON-COLLOC)
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:25

Belcore (P)

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 43	0.4033		\$ 17.22		\$ 1.43
BURIED CABLE (COPPER)	45C	1.0000		\$ 19	0.3467		\$ 6.64		\$ 0.55
UNDERGROUND (CU) CA.	5C	1.0000		\$ 26	0.3663		\$ 9.50		\$ 0.79
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 11	0.3807		\$ 4.11		\$ 0.34
CONDUIT	4C	1.0000		\$ 13	0.2521		\$ 3.38		\$ 0.28
TOTALS									

distshrinv distshrinv

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NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCO

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCAT\CALC\DIST
DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:25

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) = from length 0.0000

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = from invest. 0.2530

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

FOOTNOTES
NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.
NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
FACILITY TYPE : COPPER CABLE										Release : 1.0.4	
CIRCUIT SEGMENT : SERVICE ACCESS										STUDY YR : 1996	
SERVICE CLASS : BAND 1 - PUBLIC COIN PHONE										TEST CASE : 1	
COMPANY: CINCINNATI BELL TEL.										RUN DATE : 28-Jan-97	
CITY / AREA: CINCINNATI										TIME : 11:25	
STATE / PROV: OHIO											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F SHARED					1.0000				
BUILDING	10C	F SHARED					1.0000				
BLDG ENTRANCE CABLE	12C	V DIRECT	75.00	1		\$ 75	1.0000		\$ 75		
INTRABLDG CABLE	52C	V DIRECT	0.00				0.3500				
AERIAL CABLE (COPPER)	22C	V DIRECT	0.00				0.3500				
BURIED CABLE (COPPER)	45C	V DIRECT	0.00				0.3500				
UNDERGROUND (CU) CA.	5C	V DIRECT					0.3500				
CO EQPT - P GAIN TERM	257C	F DIRECT					0.7000				
CO EQPT - P GAIN CHAN	257C	V DIRECT					0.7000				
CO EQPT - FO MUX TERM	857C	F DIRECT					1.0000				
CO EQPT - FO MUX CHAN	857C	F DIRECT					1.0000				
CO EQPT - ANALOG SW	77C	V DIRECT					1.0000				
CO EQPT - DIGITAL SW	377C	V DIRECT					1.0000				
AERIAL CABLE (FIBER)	822C	F DIRECT					0.0000				
BURIED CABLE (FIBER)	845C	F DIRECT					0.0000				
UNDERGROUND (FO) CA.	85C	F DIRECT					0.0000				
CONNECTORS	57C	V DIRECT					1.0000				
MISC. COM EQP & PWR	57C	V SHARED					1.0000				
POLE LINE	1C	F DIRECT	0.00				1.0000				
CONDUIT	4C	F DIRECT					1.0000				
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO											
										\$0	\$75
											\$75
										bclnviy	
FOOTNOTES NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING. NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY. AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC; CO EQPT - ESS = CONNECTORS + MISC. CP&E.											

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CA123R24\LCATCALC.DIST
DIST_PLNT - WORKSHEET B
Sheet 3 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:25

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75			\$ 29.42		\$ 2.45

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCAT\CALC\DIST
DIST PLNT -- WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Bellicore (R)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 25-Jan-97

TIME: 11:26

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) =

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =

\$ 0.00

from invest.
0.2532

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PROVIDED TO PUCO

FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Bellcore ^(P)	
ACCOUNT INVESTMENT WORKSHEET						LCAT					
C:\123R24\LCAT\CALCDIST						Release: 1.0.4		1996			
DIST_PLNT - WORKSHEET B						STUDY YR:		TEST CASE:			
Sheet 2 of 3						Run Date: 28-Jan-97		TIME: 11:26			
COMPANY: CINCINNATI BELL TEL.						FACILITY TYPE: COPPER CABLE					
CITY / AREA: CINCINNATI						CIRCUIT SEGMENT: SERVICE ACCESS					
STATE / PROV: OHIO						SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE					
PLANT ITEM	ACCT CODE	CAT. FIXED RESOURCE VARI ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT		1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION			
			COST EQUATION [F]	CIRCUIT QUANTITY [G]	SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F SHARED					1.0000				
BUILDING	10C	F SHARED					1.0000				
BLDG ENTRANCE CABLE	12C	V DIRECT	75.00	1		\$ 75	1.0000		\$ 75		
INTRABLDG CABLE	52C	V DIRECT	0.00				0.3500				
AERIAL CABLE (COPPER)	22C	V DIRECT	0.00				0.3500				
BURIED CABLE (COPPER)	45C	V DIRECT	0.00				0.3500				
UNDERGROUND (CU) CA.	5C	V DIRECT					0.3500				
CO EQPT - P GAIN TERM	257C	F DIRECT					0.7000				
CO EQPT - P GAIN CHAN	257C	V DIRECT					0.7000				
CO EQPT - FO MUX TERM	857C	F DIRECT					1.0000				
CO EQPT - FO MUX CHAN	857C	F DIRECT					1.0000				
CO EQPT - ANALOG SW	77C	V DIRECT					1.0000				
CO EQPT - DIGITAL SW	377C	V DIRECT					1.0000				
AERIAL CABLE (FIBER)	822C	F DIRECT					0.0000				
BURIED CABLE (FIBER)	845C	F DIRECT					0.0000				
UNDERGROUND (FO) CA.	85C	F DIRECT					0.0000				
CONNECTORS	57C	V DIRECT					1.0000				
MISC. COM EQP & PWR	57C	V SHARED					1.0000				
POLE LINE	1C	F DIRECT	0.00				1.0000				
CONDUIT	4C	F DIRECT					0.0000				

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\$0 \$75
\$75
bottom

FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;

CO EQPT - ESS = CONNECTORS + MISC. CP&E.

C:\123R24\LCATCALC\DIST
DIST_PLNT - WORKSHEET 3
Sheet 3 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Bellcore (R)

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:26

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
9 LAND	20C	1.0000			0.2322				
10 BUILDING	10C	1.0000			0.2937				
11 BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
12 INTRABLDG CABLE	52C	1.0000			0.3922				
3 AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
4 BURIED CABLE (COPPER)	45C	1.0000			0.3467				
15 UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
16 CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
17 CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
18 CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
19 CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
20 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
21 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
22 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
23 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
24 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
25 CONNECTORS	57C	1.0000			0.3881				
26 MISC. COM EQP & PWR	57C	1.0000			0.3881				
27 POLE LINE	1C	1.0000			0.3807				
28 CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 75		\$ 29.42	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75					\$ 2.45

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PROVIDED TO PUBLIC

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCATCALC\DIST				LOOP COST ANALYSIS TOOL				Bellcore®	
DIST_PLANT - REPORT 14A				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3								Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL.				FACILITY TYPE: COPPER CABLE				STUDY YR: 1995	
CITY / AREA: CINCINNATI				CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLL, CC)				TEST CASE: 1	
STATE / PROV: OHIO				SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				RUN DATE: 28-Jan-97	
								TIME: 11:28	
logic-14a				1995 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
BAND MIX				0				TOTAL	
ACCT				1.0000				AVG. WEIGHTED	
CODE				6403				INVESTMENT	
SEG. LGTH.				638.0				638	
SHARED RESOURCES									
7	LAND	20C							\$0.00
8	BUILDING	10C							\$0.00
9	BLDG ENTRANCE CABLE	12C							\$0.00
10	INTRABLDG CABLE	52C							\$0.00
11	AERIAL CABLE (COPPER)	22C							\$0.00
12	BURIED CABLE (COPPER)	45C							\$0.00
13	UNDERGROUND (CU) CA.	5C							\$0.00
14	CO EQPT - P GAIN TERM	257C							\$0.00
15	CO EQPT - P GAIN CHAN	257C							\$0.00
16	CO EQPT - FO MUX TERM	857C							\$0.00
17	CO EQPT - FO MUX CHAN	857C							\$0.00
18	CO EQPT - ANALOG SW	77C							\$0.00
19	CO EQPT - DIGITAL SW	377C							\$0.00
20	AERIAL CABLE (FIBER)	822C							\$0.00
21	BURIED CABLE (FIBER)	845C							\$0.00
22	UNDERGROUND (FO) CA.	85C							\$0.00
23	CONNECTORS	57C							\$0.00
24	MISC. COM EQP & PWR	57C							\$0.00
25	POLE LINE	1C							\$0.00
26	CONDUIT	4C							\$0.00
27									
28	DIRECT RESOURCES								
29	LAND	20C							\$0.00
30	BUILDING	10C							\$0.00
31	BLDG ENTRANCE CABLE	12C							\$0.00
32	INTRABLDG CABLE	52C							\$0.00
33	AERIAL CABLE (COPPER)	22C		\$1.43					\$1.43
34	BURIED CABLE (COPPER)	45C		\$0.55					\$0.55
35	UNDERGROUND (CU) CA.	5C		\$0.79					\$0.79
36	CO EQPT - P GAIN TERM	257C							\$0.00
37	CO EQPT - P GAIN CHAN	257C							\$0.00
38	CO EQPT - FO MUX TERM	857C							\$0.00
39	CO EQPT - FO MUX CHAN	857C							\$0.00
40	CO EQPT - ANALOG SW	77C							\$0.00
41	CO EQPT - DIGITAL SW	377C							\$0.00
42	AERIAL CABLE (FIBER)	822C							\$0.00
43	BURIED CABLE (FIBER)	845C							\$0.00
44	UNDERGROUND (FO) CA.	85C							\$0.00
45	CONNECTORS	57C							\$0.00
46	MISC. COM EQP & PWR	57C							\$0.00
47	POLE LINE	1C		\$0.34					\$0.34
48	CONDUIT	4C		\$0.28					\$0.28
49									
50	SPAN SUMMARY				\$3.39	\$0.00	\$0.00	\$0.00	\$0.00
51	AVG. WTD. SPAN SUMMARY				\$3.39	\$0.00	\$0.00	\$0.00	\$0.00
52									
53									
54	NOTE: [sum(INV _{ACCT} BAND * MIX _{BAND})]								\$3.39
55									

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C:\123R24\LCAT\CALC.DIST			LOOP COST ANALYSIS TOOL		Bellicore [®]	
DIST_PLNT - REPORT 148			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT	
Sheet 1 of 1			CIRCUIT SEGMENT : SERVICE ACCESS		Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL			SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		STUDY YR: 1996	
CITY / AREA: CINCINNATI					TEST CASE: 1	
STATE / PROV: OHIO					RUN DATE: 28-Jan-97	
					TIME: 11:26	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						
ALL						
PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.				
SHARED RESOURCES						
LAND	20C					
BUILDING	10C					
BLDG ENTRANCE CABLE	12C					
INTRABLDG CABLE	52C					
AERIAL CABLE (COPPER)	22C					
BURIED CABLE (COPPER)	45C					
UNDERGROUND (CU) CA.	5C					
CO EQPT - P GAIN TERM	257C					
CO EQPT - P GAIN CHAN	257C					
CO EQPT - FO MUX TERM	857C					
CO EQPT - FO MUX CHAN	857C					
CO EQPT - ANALOG SW	77C					
CO EQPT - DIGITAL SW	377C					
AERIAL CABLE (FIBER)	822C					
BURIED CABLE (FIBER)	845C					
UNDERGROUND (FO) CA.	85C					
CONNECTORS	57C					
MISC. COM EQP & PWR	57C					
POLE LINE	1C					
CONDUIT	4C					
DIRECT RESOURCES						
LAND	20C					
BUILDING	10C					
BLDG ENTRANCE CABLE	12C	2.45				
INTRABLDG CABLE	52C					
AERIAL CABLE (COPPER)	22C					
BURIED CABLE (COPPER)	45C					
UNDERGROUND (CU) CA.	5C					
CO EQPT - P GAIN TERM	257C					
CO EQPT - P GAIN CHAN	257C					
CO EQPT - FO MUX TERM	857C					
CO EQPT - FO MUX CHAN	857C					
CO EQPT - ANALOG SW	77C					
CO EQPT - DIGITAL SW	377C					
AERIAL CABLE (FIBER)	822C					
BURIED CABLE (FIBER)	845C					
UNDERGROUND (FO) CA.	85C					
CONNECTORS	57C					
MISC. COM EQP & PWR	57C					
POLE LINE	1C					
CONDUIT	4C					
SPAN TOTAL						

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RUN - SUB PRI

LAST UPDATE

28-Jan-97

10:32

LOOP COST ANALYSIS TOOL

Bellcore (R)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 0 - 12000 FEET IN

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARBAND	#CKTS
CST METH	UN INCR	INCR LEVEL

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CA123R24\LCATCALC\GUTECH		LOOP COST ANALYSIS TOOL						Bellcore®	
SUB PRI - WORKSHEET		BASIC INVESTMENT WORKSHEET						LCAT Release: 1.0.4	
Sheet 1 of 3		CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS						Issue Date: 7/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE						STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY						TEST CASE:	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE						RUN DATE: 28-Jan-97	
								TIME: 11:26	
SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*1ctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
5765	AERIAL	0.120000	691.80	0.012100	8.37		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.000000	0.00	0.016600	0.00		0.00	0.00	
CABLE	UNDERGRND	0.880000	5073.20	0.010900	55.30		0.00	0.00	
CHECK =		1.000000							
ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS INVESTMENT PER CIRCUIT TERMINATION (CO CONN) CONNECTORS (coi77c) = \$ 0.00 POLE LINE FACTOR = $\frac{\text{inv} / \text{unit lgh}}{\text{inv} / \text{unit lgh}} = \frac{0.000000}{0.253000} = 0.000000$ POLE LINE INVESTMENT = (UTIL AERIAL INVEST x PLF) = \$ 3.53 UG CONDUIT FACTOR = $\frac{\text{inv} / \text{unit lgh}}{\text{inv} / \text{unit lgh}} = \frac{0.000000}{0.516500} = 0.000000$ CONDUIT INVESTMENT = (UTIL UNDGRND INVEST x UCF) = \$ 47.60 MISC. COMMON EQPT. & POWER FACTOR = 0.112700 MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00 LAND FACTOR = 0.000000 LAND NVST (CO CONN + MCE&P x FACTOR) = \$ 0.00 BUILDING FACTOR = 0.000000 BLDG NVST (CO CONN + MCE&P x FACTOR) = \$ 0.00 PERCENT OF CO CONN AT DIGITAL SWITCHES = 0.000000 PERCENT OF CO CONN AT ANALOG SWITCHES = 0.000000									
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING. NOTE 2: $E * 1ctr = \text{INVESTMENT} \times \text{DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)}$ NOTE 3: $UI * DTC = \text{UNIT INVESTMENT} \times \text{PROBABILITY OF OCCURRENCE}$ NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5, #6).									

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: [MELDED GAUGE/S' SUB-PRIMARY]										TEST CASE: 1	
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE										RUN DATE: 28-Jan-97	
										TIME: 11:28	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED	0.00				1.0000			
BUILDING	10C	F	SHARED	0.00				1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	8.37	1		\$ 8	0.8000		\$ 14	
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT	55.30	1		\$ 55	0.6000		\$ 92	
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000			
POLE LINE	1C	F	DIRECT	3.53	1			1.0000		\$ 4	
CONDUIT	4C	F	DIRECT	47.60	1			1.0000		\$ 48	
TOTALS										\$ 0	\$ 157
											\$ 157

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FOOTNOTES
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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CA:\23R24\LCAT\CALC\OUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S: SCB-PRIMARY
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Belcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE:
RUN DATE: 28-Jan-97
TIME: 11:26

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 14	0.4033		\$ 5.63		\$ 0.47
13 BURIED CABLE (COPPER)	45C	1.0000			0.3467				
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 92	0.3663		\$ 33.76		\$ 2.81
15 CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
16 CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
17 CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
18 CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3881				
25 MISC. COM EQP & PWR	57C	1.0000			0.3881				
26 POLE LINE	1C	1.0000		\$ 4	0.3807		\$ 1.34		\$ 0.11
27 CONDUIT	4C	1.0000		\$ 48	0.2521		\$ 12.09		\$ 1.00
28									
29 SUBTOTALS			\$ 0	\$ 157		\$ 52.73	\$ 52.73	\$ 0.00	\$ 4.39
30									
31 TOTALS				\$ 157		\$ 52.73	\$ 52.73		\$ 4.39
32				culpmvsv			culpmrc		culpmrc
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47 FOOTNOTES									
48 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
49 NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.									
50									
51									
52									
53									
54									
55									

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SUB_PRI - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 1						Issue Date: 7/31/95	
COMPANY: CINCINNATI BELL TEL		FACILITY SEGMENT: SUB-PRIMARY PLANT				STUDY YR: 1996	
CITY / AREA: CINCINNATI						TEST CASE: 1	
STATE / PROV: OH.O		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				RUN DATE: 28-Jan-97	
						TIME: 11:28	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
BAND		logic-14a		0		(SEE NOTE)	
PLANT MIX		1.0000				TOTAL	
ACCT AVG.						AVG. WEIGHTED	
CODE LGTH		6403					
SEG.LGTH.		5765				5765	
SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
29	LAND	20C					\$ 0.00
30	BUILDING	10C					\$ 0.00
31	BLDG ENTRANCE CABLE	12C					\$ 0.00
32	INTRABLDG CABLE	52C					\$ 0.00
33	AERIAL CABLE (COPPER)	22C	\$ 0.47				\$ 0.47
34	BURIED CABLE (COPPER)	45C					\$ 0.00
35	UNDERGROUND (CU) CA.	5C	\$ 2.81				\$ 2.81
36	CO EQPT - P GAIN TERM	257C					\$ 0.00
37	CO EQPT - P GAIN CHAN	257C					\$ 0.00
38	CO EQPT - FO MUX TERM	857C					\$ 0.00
39	CO EQPT - FO MUX CHAN	857C					\$ 0.00
40	CO EQPT - ANALOG SW	77C					\$ 0.00
41	CO EQPT - DIGITAL SW	377C					\$ 0.00
42	AERIAL CABLE (FIBER)	822C					\$ 0.00
43	BURIED CABLE (FIBER)	845C					\$ 0.00
44	UNDERGROUND (FO) CA.	85C					\$ 0.00
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C	0.1	\$ 0.11			\$ 0.11
48	CONDUIT	4C	1	\$ 1.00			\$ 1.00
50	SPAN SUMMARY		\$ 4.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 4.39
52	AVG. WTD. SPAN SUMMARY		\$ 4.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
54	NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]						

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 RUN - CDLC PLANT

LAST UPDATE

28-Jan-97

10:33

LOOP COST ANALYSIS TOOL

Belcore^(R)

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE - 12000 FEET INTRASTATE

CURRENT TEST PLAN: CURRENT JOB IDENTIFICATION CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NAREAND	#COTS
CST METH	UN INCR	INV LEVEL

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1995	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: C										DATE: 26-Jan-97	
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE										TIME: 11:27 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
6403 cur lgth											
5765 cur idr - lgth											
f = 0.125 pgrfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4)											
(NOTE 5)											
SEGMENT LENGTH IN FEET											
TYPE OF CABLE											
RELATIVE MIX OF TYPE OF											
EFFECTIVE LENGTH SUBSET BY TYPE INVEST. PER											
CABLE INVESTMENT PER CHAN											
WEIGHTED TERMINAL INVESTMENT											
AIR DRYER INVESTMENT PER PAIR											
DROP WIRE ADJUSTMENT PER PAIR											
WEIGHTED DROP WIRE INVESTMENT PER PAIR											
[A] [B] [C=A*B*f] [D] [E=C*D] [U1*DTC] [E*fcrr] [E*fcrr] [U1*DTC]											
0. AERIAL 0.120000 0.00 0.024200 \$ 0.00 \$ 0.00											
CO TO RT LINK ON BURIED 0.000000 0.00 0.033200 \$ 0.00 \$ 0.00											
COPPER CABLE DLC 24.00 GA. FACILITIES UNDERGRND 0.880000 0.00 0.021800 \$ 0.00 \$ 0.00											
1.000000											
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC CEV FACILITIES = compgrvst \$ 0.00											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =											
UGD CONDUIT FACTOR (UCF) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCF) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127											
MCE&P INVEST. (CU REMMUX x MCEP) = \$ 38.58											
MCE&P INVEST. (CDLCMUX x MCEP) = \$ 23.18											
MCE&P INVEST. (CO CONN x MCEP) = \$ 0.00											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf rem) = 0.0056											
LAND FACTOR FOR DLC (LANDf c.o.) = 0.0056											
LAND INVEST. (CU COMUX + MCEP) x LANDf = \$ 3.41											
LAND INVEST. ((CO CONN + MCEP) x LANDf) = \$ 0.00											
BUILDING FACTOR FOR DLC (BLDGf rem.) = 0.1316											
BUILDING FACTOR FOR DLC (BLDGf c.o.) = 0.1316											
BLDG INVEST. (CDLCMUX + MCEP) x BLDGf = \$ 80.24											
BLDG INVEST. ((CO CONN + MCEP) x BLDGf) = \$ 0.00											
LOOP TOPOLOGY											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF RING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
STAR											
NA											
NA											
0.0000											
1.0000											
1.0000											
0.0000											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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CA123R24LCATCALCGRPGRN
 CDLC PLANT - WORKSHEET 1
 Sheet 2 of 3

LOOP COST ANALYSIS TOOL
 ACCOUNT INVESTMENT WORKSHEET
 CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
 FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY
 FACILITY TYPE: COPPER DIG LOOP CXR
 CIRCUIT DESIGN: T1C
 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Bellcore[®]
 LCAT Release: 1.0.4
 Issue Date: 8/31/95
 STUDY YR: 1995
 TEST CASE: 1
 DATE: 26-Jan-97
 TIME: 11:27 AM

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SLNK	RESOURCE ALLOCATION	1986 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1986 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL LINE FILL [J]	1986 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	3.41	0			1.0000		
BUILDING	10C	F	SHARED	80.37	0			1.0000		
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000		
INTRABLDG CABLE	52C	---	---		0			0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00	0			0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00	0			0.6000		
CO EQPT - P GAIN TERM	257C	F	DIRECT	166.80	0			0.7000		
CO EQPT - P GAIN CHAN	257C	V	DIRECT	419.77	0			0.7000		
CO EQPT - FO MUX TERM	857C	F	DIRECT		0			1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT		0			1.0000		
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00	0			1.0000		
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00	0			1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT		0			0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT		0			0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT		0			0.3300		
CONNECTORS	57C	V	DIRECT		0			1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	23.18	0			1.0000		
POLE LINE	1C	F	DIRECT	0.00	0			1.0000		
CONDUIT	4C	F	DIRECT	0.00	0			1.0000		
TOTALS										

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: CO EQPT - CKT PG TERM= PG EQ INV TERM + MC&P INV
CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV
CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

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C:\123R24\LCATCALC\CUPRGN

CDLC PLANT - WORKSHEET 1

Sheet 3 of 3

COMPANY: CINCINNATI BELL TEL

CITY / AREA : OHIO

STATE / PROV : CINCINNATI

LOOP COST ANALYSIS TOOL

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET

FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

FACILITY TYPE : COPPER DIG LOOP CRR

CIRCUIT DESIGN : C

SERVICE CLASS : BAND 1 - PUBLIC COIN PHONE

LCAT Release : 1.0.4

Issue Date : 8/31/95

STUDY YR : 1996

TEST CASE : 1

DATE : 28-Jan-97

TIME : 11:27 AM

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000				
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			=====	=====		=====	=====	=====	=====
			\$ 0	\$ 0		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
				\$ 0			\$ 0.00		\$ 0.00
				FEED1SY			FEED1ANN		FEED1MRC

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.

HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

C:\123R24\LCAT\CALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE

28-Jan-97

10:34

LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 0 - 12000 FEET INTRA

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARBAND	#CKTS
CST METH	UN INCR	IN LEVEL

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LOOP COST ANALYSIS TOOL										Bellcore																																																																		
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4																																																																		
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95																																																																		
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1998																																																																		
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1																																																																		
SERVICE CLASS: BAND 1 - PUBLIC SERVICE LEVEL: NARBAND										LAST RUN: 28-Jan-97																																																																		
										TIME: 11:28																																																																		
C:\123R2\LCATCALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO																																																																												
from star_idl: 5765 cur_staridh 0 cur_pnigh from bw_mux: f = 1979.04 wldqymn																																																																												
<table border="1"> <thead> <tr> <th rowspan="2">SEGMENT LENGTH IN FEET</th> <th rowspan="2">TYPE OF CABLE PLANT</th> <th rowspan="2">RELATIVE MIX OF TYPE OF CA. PLANT [B]</th> <th rowspan="2">EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT [C=A*B/M]</th> <th rowspan="2">MUD CABLE DESIGN INVEST. PER PAIR FOOT [D]</th> <th colspan="3">CABLE COMPONENTS (NOTE 5)</th> <th colspan="2">(NOTE 4)</th> <th colspan="2">(NOTE 5)</th> </tr> <tr> <th>WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D]</th> <th>WEIGHTED TERMINAL INVESTMENT [U*DTCT]</th> <th>AIR DRYER INVESTMENT PER PAIR [E*factr]</th> <th>DROP WIRE ADJUSTMENT PER PAIR [E*factr]</th> <th>WEIGHTED DROP WIRE INVESTMENT PER PAIR [U*DTCT]</th> </tr> </thead> <tbody> <tr> <td>fo3pri_segidh [A]</td> <td>0</td> <td>AERIAL</td> <td>0.180000</td> <td>0.00</td> <td>0.282300</td> <td>0.00</td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CO TO HUB LINK ON</td> <td></td> <td>BURIED</td> <td>0.000000</td> <td>0.00</td> <td>0.269400</td> <td>0.00</td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FIBER OPTIC FACILITIES</td> <td>UNDERGRND</td> <td>0.820000</td> <td>0.00</td> <td>0.168600</td> <td>0.00</td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="12">1.000000</td> </tr> </tbody> </table>												SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	RELATIVE MIX OF TYPE OF CA. PLANT [B]	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT [C=A*B/M]	MUD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE COMPONENTS (NOTE 5)			(NOTE 4)		(NOTE 5)		WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D]	WEIGHTED TERMINAL INVESTMENT [U*DTCT]	AIR DRYER INVESTMENT PER PAIR [E*factr]	DROP WIRE ADJUSTMENT PER PAIR [E*factr]	WEIGHTED DROP WIRE INVESTMENT PER PAIR [U*DTCT]	fo3pri_segidh [A]	0	AERIAL	0.180000	0.00	0.282300	0.00		0.00				CO TO HUB LINK ON		BURIED	0.000000	0.00	0.269400	0.00		0.00				FIBER OPTIC FACILITIES	UNDERGRND	0.820000	0.00	0.168600	0.00		0.00					1.000000											
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FIBER OPTIC FACILITIES	UNDERGRND	0.820000	0.00	0.168600	0.00		0.00																																																																					
1.000000																																																																												
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST. / LOAD FACTORS TO AERIAL PFI NA 0.0000 ADJUST. / LOAD FACTORS TO BURIED PFI NA 0.0000 ADJUST. / LOAD FACTORS TO UGD PFI NA 0.0000 DLC EQUIPMENT INVEST. (NOTE 2) INT DLC EQUIP. INVEST. (CU COMUX) = intdlcco \$ 0.00 \$ 0.00 INT DLC EQUIP. INVEST. (CU RTMUX) = intdlcrt \$ 0.00 \$ 0.00 UNIV DLC EQUIP. INVEST. (CU COMUX) = unvdlcco \$ 24.29 \$ 181.35 UNIV DLC EQUIP. INVEST. (CU RTMUX) = unvdlcrt \$ 103.93 \$ 238.42 FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco \$ 2.40 \$ 36.99 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort \$ 2.40 \$ 36.99																																																																												
EQUIPMENT INVESTMENT LOADINGS INVST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127 MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 27.61 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 43.02 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR OTH (LANDfrem) = 0.0056 LAND FACTOR FOR DLC EQP (LANDfc.o.) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0056 LAND FACTOR FOR OTH (LANDfc.o.) = 0.0056 LAND INVST. (DLC+MUX+MCEP) x LANDfc.o.) = \$ 1.53 LAND INVST. (MUX+DLC+MCEP) x LANDfrem) = \$ 2.38 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR DLC EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfc.o.) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o.) = \$ 35.88 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem) = \$ 55.90																																																																												
OTHER INVESTMENT POLE LINE FACTOR (PLf) = tpif 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00 UNDERGROUND CONDUIT FACTOR (PLf) = fuct 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 0.00																																																																												
LOOP TOPOLOGY STAR AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 1.0000 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000																																																																												
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.																																																																												

RATES PLAN

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CM123R24\LCATR039\ COST METH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENTLCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR: 1996
TEST CASE : 1
LAST UPDATE : 17-Jan-97
TIME : 14:23COMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS							
		NARROWBAND		WIDEBAND		BROADBAND			
		CATEGORY	SENS. INDEX	CATEGORY	SENS. INDEX	CATEGORY	SENS. INDEX	CATEGORY	SENS. INDEX
LAND	LAND	20C	F	SHARED	F	SHARED	F	SHARED	F
BUILDING	BLDG	10C	F	SHARED	F	SHARED	F	SHARED	F
BLDG ENTRANCE CABLE	BEC	12C	V	DIRECT	V	DIRECT	V	DIRECT	V
INTRABLDG CABLE	IBC	52C	V	DIRECT	V	DIRECT	V	DIRECT	V
AERIAL CABLE (COPPER) ①	ACU	22C	V	DIRECT	V	DIRECT	V	DIRECT	V
BURIED CABLE (COPPER) ①	BCU	45C	V	DIRECT	V	DIRECT	V	DIRECT	V
UNDERGROUND (CU) CA. ①	UCU	5C	V	DIRECT	V	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP TERM	DLCT	257C	F	DIRECT	V	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP CHAN	DLCC	257C	V	DIRECT	V	DIRECT	V	DIRECT	V
CO EQPT - HI CAP TERM	MUXT	857C	F	DIRECT	F	DIRECT	F	DIRECT	F
CO EQPT - HI CAP CHAN	MUXC	857C	F	DIRECT	F	DIRECT	V	DIRECT	V
CO EQPT - ANALOG SW	ACOE	77C	V	DIRECT	V	DIRECT	V	DIRECT	V
CO EQPT - DIGITAL SW	DCOE	377C	V	DIRECT	V	DIRECT	V	DIRECT	V
AERIAL CABLE (FIBER)	AFO	822C	F	DIRECT	F	DIRECT	F	DIRECT	F
BURIED CABLE (FIBER)	BFO	845C	F	DIRECT	F	DIRECT	F	DIRECT	F
UNDERGROUND (FO) CA.	UFO	85C	F	DIRECT	F	DIRECT	F	DIRECT	F
CONNECTORS	CONN	57C	V	DIRECT	V	DIRECT	V	DIRECT	V
MISC. COM EQP & PWR	MCEP	57C	V	SHARED	V	SHARED	V	SHARED	V
POLE LINE	POLE	1C	F	DIRECT	F	DIRECT	F	DIRECT	F
CONDUIT	COND	4C	F	DIRECT	F	DIRECT	F	DIRECT	F

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTI-PAIRED) FEEDER & DISTRIBUTION
 BY DEFINITION : ITEMS LABELED F(xed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
 ITEMS LABELED F(xed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

C:\123R24\LCATR039\COSTMETH

HELP SCREEN**Bellcore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for DISTRIBUTION cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	Any 5 (max) char. code	The User cross-reference code for the cost component or component group. Examples are "field" codes, sub-accounts.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THE DATA CATALOG NAMES *****
 ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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C:\123R24\LCATR039 COSTMETH

LOOP COST ANALYSIS TOOL

Bellicore (R)

TABLE - COST METH SHEET 2 of 2		COST METHODS ASSIGNMENT TABLE FEEDER SEGMENT				LCAT Rel: 1.0.4 Issued: 07/31/85 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:23	
COMPANY: CINCINNATI BELL TEL. STATE: OHIO		SWITCHED SERVICES					
PLANT ITEM	PLANT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND CATEGORY		WIDEBAND CATEGORY		BROADBAND CATEGORY	
		SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT
LAND	20C	F	SHARED	F	SHARED	F	SHARED
BUILDING	10C	F	SHARED	F	SHARED	F	SHARED
BLDG ENTRANCE CABLE							
INTRABLDG CABLE							
AERIAL CABLE (COPPER) ①	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ①	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ①	5C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP TERM	257C	F	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - HI CAP TERM	857C	F	DIRECT	F	DIRECT	F	DIRECT
CO EQPT - HI CAP CHAN	857C	F	DIRECT	F	DIRECT	V	DIRECT
CO EQPT - ANALOG SW	77C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - DIGITAL SW	377C	V	DIRECT	V	DIRECT	V	DIRECT
AERIAL CABLE (FIBER)	822C	F	DIRECT	F	DIRECT	F	DIRECT
BURIED CABLE (FIBER)	845C	F	DIRECT	F	DIRECT	F	DIRECT
UNDERGROUND (FO) CA.	85C	F	DIRECT	F	DIRECT	V	DIRECT
CONNECTORS	57C	V	DIRECT	V	DIRECT	V	DIRECT
MISC. COM EQP & PWR	57C	V	SHARED	V	SHARED	V	SHARED
POLE LINE	1C	F	DIRECT	F	DIRECT	F	DIRECT
CONDUIT	4C	F	DIRECT	F	DIRECT	F	DIRECT
FOOTNOTES ① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS, ONLY. BY DEFINITION: ITEMS LABELED <u>F(xed)</u> OR <u>SHARED</u> ARE EXCLUDED IN A MARGINAL COST STUDY. ITEMS LABELED <u>F(xed)</u> ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES. ALL ITEMS ARE INCLUDED IN A PROSPECTIVE REPLACEMENT OR NEW INSTALLATION.							

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HELP SCREEN**Belcore** (TM)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for FEEDER cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	(none)	The User nominated cross-reference code for the cost component or component group from the previous screen.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

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INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 28-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				17-Jan-97 02:25 PM	
STUDY NAME		1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 0 - 12000 FEE INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 1 - PUBLIC COIN PHON		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL		INVESTMENT YEAR	
				1996	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO			
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
Type Percent Mix:					
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			

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INPUT - STUDY SETUP			LCAT Rel. 1.0.4
Sheet 1 of 2			ISSUED: 3/31/95
THIS DISPLAY	This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.		
STUDY NAME	Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.		
COMMENTS	Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, , <Up>, <Dn>, etc... keys. PRESS THE <Enter> KEY TO STOP INPUTTING DATA.		
STUDY BASIS	Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.		
FACILITY TYPE	Select by entering the <u>percent of technology mix</u> , the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.		
CELL DENSITY	Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW, and QUALIFIERS, such as, METRO, URBAN, SUBURBAN, and RURAL.		
***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION ***** ***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THE DISPLAY ***** PRESS <Enter> KEY TO RETURN TO THE MAIN MENU			

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C:\123R24\LCATR039\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]				
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LCAT Rev. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 02:25 PM				
SELECTED QUESTIONS								
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ?		VALID RESPONSE SET N or A S or P N, W or B 2 or 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> </table>	NEW	SWITCHED	NARBAND	2
NEW								
SWITCHED								
NARBAND								
2								
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?		0 → 100 0 → 100 0 → 100 e.g., 12000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>100</td></tr> <tr><td>0</td></tr> <tr><td>12000 Feet</td></tr> </table>	100	0	12000 Feet	
100								
0								
12000 Feet								
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is(e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.		For 1 5 C or A T 1000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>FLAT RATE</td></tr> <tr><td>COST</td></tr> <tr><td>TOT INCR</td></tr> <tr><td>RATES PLAN</td></tr> </table>	FLAT RATE	COST	TOT INCR	RATES PLAN
FLAT RATE								
COST								
TOT INCR								
RATES PLAN								

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C:\123R24\LCATR039\CRITERIA

HELP SCREENBellcore[®]

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied. .
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,
Using **6.** for Switched Services or Using **7.** for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1, 2, 3, or 4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs on all values.
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.
Nominally, entering 1 provides a "UNIT" cost and any other value, a "TOTAL" cost.

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C:\123R24\LCATR039\DESIGN	LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN Sheet 1 / 1	CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR	LCAT Rel :1.0.4 Issued :07/31/95	
COMPANY :CINCINNATI BELL TEL.	INVESTMENT YEAR: 1996	STUDY YR : 1996	
CITY / AREA :CINCINNATI	LOOP STUDY YEAR: 1996	TEST CASE : 1	
STATE / PROV :OHIO	SERVICE CLASS:BAND 1 - PUBLIC COIN PHON	LAST UPDATE : 17-Jan-97 TIME : 14:27	
<u>CIRCUIT DESIGN</u>			
Study Parameters			
Study Basis: NETWORK STUDY		Service Level: NARBAND Loop Topology: STAR	
CIRCUIT LAYOUT REQUIREMENTS - FOR FIBER HUBS & FEEDER EXTENSIONS		CIRCUIT DESIGN REQUIREMENTS - SELECTION & DISTRIBUTION:	
(FIBER HUB TO REMOTE TERMINAL LINK)		Note	
FACILITY INTERFACE SITES :		FOR FIBER DLC DESIGNS:	
Proportion of Fiber Circuits WITHOUT Fiber Hubs	0.0000	Weighting of Design #1	0.0000
FACILITY TECHNOLOGIES:		Weighting of Design #2	0.0000
Of the Hubbed Circuits -		Weighting of Design #3	1.0000
Proportion of links on Fiber Tech.	0.0000	Weighting of Design #4	NA 0.0000
		Weighting of Design #5	NA 0.0000
Proportion of links on CDLC / MAR	0.0000	Weighting of Design #6	NA 0.0000
			1.0000 ChkSum
FOR SERVICE ACCESS NETWORK		FOR COPPER DLC DESIGNS:	
(REMOTE TERMINAL TO CUSTOMER LINK)			
FACILITY INTERFACE SITES :		Weighting of Design #1	0.0000
Proportion of Remote terminals colocated at Customer Premises	0.0000	Weighting of Design #2	0.0000
			1.0000 ChkSum

NA DENOTES THAT THE CIRCUIT DESIGN
PROBABLY DOES NOT APPLY TO THIS
SET OF STUDY PARAMETERS.

C:\123R24\LCATR039\DESIGN
INPUT - LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN**Belcore**

LCAT Rel :1.0.4
Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

Each Loop's circuit layout is broken down into potentially the FEEDER, the DISTRIBUTION, and the DROP segment. The FEEDER segment can have THREE Spans, the PRIMARY and EXTENSION are realtime, but, the SUBFEEDER is a "filler" for spans or distances under PAIR GAIN Deployment and will be employed using engineering rules and network characteristics. The potential Fiber Optic DLC and Copper DLC circuit layouts have been categorized into several generic designs for purposes of narrowing down the complexity of the network contribution. The *DESIGN's* represent unique combinations of layers (COLLOCATION) and the transport media. There is a chart of these *DESIGN's* included in the DATA CATALOG and the METHODOLOGY sections of the User Guide.

COLLOCATIONS

To be defined as the combining of Loop functions at the same location, excluding the need for translation of the transport function (eliminating the OSP and termination equipment). Note that the sum of the probabilities do not have to equal total universe, therefore, the proportions are a function of the total serving universe (total loop network).

**FIBER HUBS &
FEEDER
EXTENSIONS**

These values represent the proportion of each technology used in the layouts which DO NOT have collocated FIBER HUB and REMOTE TERMINAL functions.

WARNING

→ This function must be in place for "RING" topologies as 100% FIBER, therefore, the *DESIGN* choices are limited for RING to *DESIGN's* 1 and 5. All other *DESIGN* are to be avoided.

**SERVICE
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choices will be limited for BROADBAND service levels to those which currently support DS3 Xconn at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
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C:\123R24\LCATR039\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1/4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/95	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996	
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 1	
		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 17-Jan-97	
				TIME: 14:29	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
CABLE TYPE MIX (DISTRIBUTION TO CODE): Proportion of FIBER cable installations that are		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
		AERIAL	0.1800	0.0000	factors
		BURIED	0.0000	0.0000	factors
		UNDGRD	0.8200	0.0000	factors
INVESTMENT PER CABLE PAIR FOOT					
BY CABLE TYPE:					
Update Cable Sheath Prices on the FULL SET Input SHEET? (Y/N)			☐ N	(Required with INDIVIDUAL Mode)	
If not, Update Unit Averages as Follows:					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	per fiber pair Foot	
		BURIED	\$ 0.2694	per fiber pair Foot	
		UNDGRD	\$ 0.1686	per fiber pair Foot	
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	\$ 0.0000	per fiber pair Foot
		BURIED	\$ 0.2694	\$ 0.0000	per fiber pair Foot
		UNDGRD	\$ 0.1686	\$ 0.0000	per fiber pair Foot
		(Fiber Hub to Remote Terminal)			
		(Remote Terminal to Service Point)			

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C:\123R24\LCATR039\FACILITY		LOOP COST ANALYSIS TOOL				Belcore
TABLE - SPAN INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR				LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:29
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE						
Cable Sheath Sizes		CAPACITY	Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size			
		INDEX	AERIAL	BURIED	UNDERGROUND	
4	Fiber Cable	2 pr	\$		\$	
6	Fiber Cable	3 pr	\$		\$	
12	Fiber Cable	6 pr	\$		\$	
18	Fiber Cable	9 pr	\$		\$	
24	Fiber Cable	12 pr	\$		\$	
36	Fiber Cable	18 pr	\$		\$	
48	Fiber Cable	24 pr	\$		\$	
60	Fiber Cable	30 pr	\$		\$	
72	Fiber Cable	36 pr	\$		\$	
84	Fiber Cable	42 pr	\$		\$	
96	Fiber Cable	48 pr	\$		\$	
144	Fiber Cable	72 pr	\$		\$	
192	Fiber Cable	96 pr	\$		\$	
216	Fiber Cable	108 pr	\$		\$	

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C:\123R24\LCATR039\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

Bellcore
LCAT Rel: 1.0.4
Issued: 07/31/95

***** THE INPUT DATA NAMES IN RED CROSS -REFERENCE TO THEIR DATA CATALOG NAMES *****

***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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CA123R24/LCATR039/FACILITY		LOOP COST ANALYSIS TOOL				Bellcore (R)																																																																						
TABLE - SPAN_INV SHEET 2:4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT COPPER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:29																																																																						
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																																																												
Cable Gauge Mix : <u>GAUGE</u>		FEEDER SEGMENT		DISTRIBUTION SEGMENT		Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :																																																																						
The Proportion of Copper Cable that is		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">26 GA.</td><td style="width: 20%;">0.1500</td><td style="width: 20%;">0.1500</td></tr> <tr><td>24 GA.</td><td>0.8500</td><td>0.8500</td></tr> <tr><td>22 GA.</td><td>0.0000</td><td>0.0000</td></tr> </table>		26 GA.	0.1500	0.1500	24 GA.	0.8500	0.8500	22 GA.	0.0000	0.0000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">26 GA.</td><td style="width: 20%;">0.1500</td><td style="width: 20%;">0.1500</td></tr> <tr><td>24 GA.</td><td>0.8500</td><td>0.8500</td></tr> <tr><td>22 GA.</td><td>0.0000</td><td>0.0000</td></tr> </table>		26 GA.	0.1500	0.1500	24 GA.	0.8500	0.8500	22 GA.	0.0000	0.0000	Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y / N) N If not, Update																																																				
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Cable Type Mix, By Gauge :		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;"></th> <th style="width: 20%;"><u>GAUGE</u></th> <th style="width: 20%;"><u>FEEDER</u> <u>SEGMENT</u></th> <th style="width: 20%;"><u>DISTRIBUTION</u> <u>SEGMENT</u></th> </tr> <tr> <td rowspan="3">The Proportion of Copper Cable that is</td> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.1200</td> <td>0.5900</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.1600</td> </tr> <tr> <td>UNDGRND</td> <td>0.8800</td> <td>0.2500</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.1200</td> <td>0.5900</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.1600</td> </tr> <tr> <td>UNDGRND</td> <td>0.8800</td> <td>0.2500</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </table>			<u>GAUGE</u>	<u>FEEDER</u> <u>SEGMENT</u>	<u>DISTRIBUTION</u> <u>SEGMENT</u>	The Proportion of Copper Cable that is	26 GA.	AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500	24 GA.	AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500	22 GA.	AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000	Average Unit Investment for Copper Cable Installed as		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;"></th> <th style="width: 20%;"><u>GAUGE</u></th> <th style="width: 20%;"><u>FEEDER</u> <u>SEGMENT</u></th> <th style="width: 20%;"><u>DISTRIBUTION</u> <u>SEGMENT</u></th> </tr> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.0121</td> <td>0.0397</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0657</td> </tr> <tr> <td>UNDGRND</td> <td>0.0109</td> <td>0.0569</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.0121</td> <td>0.0397</td> </tr> <tr> <td>BURIED</td> <td>0.0166</td> <td>0.0657</td> </tr> <tr> <td>UNDGRND</td> <td>0.0109</td> <td>0.0569</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </table>			<u>GAUGE</u>	<u>FEEDER</u> <u>SEGMENT</u>	<u>DISTRIBUTION</u> <u>SEGMENT</u>	26 GA.	AERIAL	0.0121	0.0397	BURIED	0.0000	0.0657	UNDGRND	0.0109	0.0569	24 GA.	AERIAL	0.0121	0.0397	BURIED	0.0166	0.0657	UNDGRND	0.0109	0.0569	22 GA.	AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000
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NOTE : If the DROP WIRE resource Investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input in the worksheet.																																																																												

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TABLE - SPAN INV SHEET 2A / 4		COPPER CABLE DATA - BY CABLE SHEATH DETAIL		LCAT Ref: 1.0.4
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/95
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 1
		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 17-Jan-97
				TIME: 14:29

COPPER CABLE INVESTMENT REFERENCE TABLE

Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size

Cable Sheath Sizes		Capacity	Gauge: => INDEX	26 GA.			24 GA.			22 GA.		
				AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40	Copper Cable	20 pr	\$									
50	Copper Cable	25 pr	\$									
80	Copper Cable	40 pr	\$									
100	Copper Cable	50 pr	\$									
140	Copper Cable	70 pr	\$									
200	Copper Cable	100 pr	\$									
400	Copper Cable	200 pr	\$									
600	Copper Cable	300 pr	\$									
800	Copper Cable	400 pr	\$									
1200	Copper Cable	600 pr	\$									
1800	Copper Cable	900 pr	\$									
2400	Copper Cable	1200 pr	\$									
3000	Copper Cable	1500 pr	\$									
3600	Copper Cable	1800 pr	\$									
4200	Copper Cable	2100 pr	\$									
4800	Copper Cable	2400 pr	\$									
5400	Copper Cable	2700 pr	\$									
6000	Copper Cable	3000 pr	\$									
7200	Copper Cable	3600 pr	\$									
8400	Copper Cable	4200 pr	\$									

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TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

BelcoreTM
LCAT Rel : 1.0.4
Issued : 07/31/95

***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES *****

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LCAT

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LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Rpt: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 17-Jan-97
TIME: 14:29COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 25 GA.	0.590000	\$ 0.039700	0.1500	0.088500	\$ 0.005955
BURIED @ 25 GA.	0.160000	\$ 0.065700	0.1500	0.024000	\$ 0.009855
UNDGRND @ 25 GA.	0.250000	\$ 0.056900	0.1500	0.037500	\$ 0.008535
AERIAL @ 24 GA.	0.590000	\$ 0.039700	0.8500	0.501500	\$ 0.033745
BURIED @ 24 GA.	0.160000	\$ 0.065700	0.8500	0.136000	\$ 0.055845
UNDGRND @ 24 GA.	0.250000	\$ 0.056900	0.8500	0.212500	\$ 0.048385
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

TABLE 2

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR :	[F=sum(D*Type)]	
AERIAL	0.590000	
BURIED	0.160000	
UNDERGRND	0.250000	

Check = 1.000000

TABLE 4

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
[G=sum(E*Type)]		[H=sum(F*Type)]	
\$ 0.049700		\$ 0.788667	
\$ 0.015700		\$ 0.213333	
\$ 0.016900			

Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR039\FACILITY.WK1		LOOP COST ANALYSIS TOOL				Belcore [®]																																										
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS WELDING WORKSHEET A FOR				LCAT R61: 1.0.4 Issue Date: 07/31/95																																										
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT				STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:29																																										
		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE																																														
MELDED CABLE INVESTMENT PER PAIR FOOT																																																
DATA DESC.	(DISTRIBUTION TO CODE: CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pft...fd)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI																																											
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]																																											
AERIAL @ 26 GA.	0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815																																											
BURIED @ 26 GA.	0.000000	\$ 0.016600	0.1500	0.000000	\$ 0.002490																																											
UNDGRND @ 26 GA.	0.880000	\$ 0.010900	0.1500	0.132000	\$ 0.001635																																											
AERIAL @ 24 GA.	0.120000	\$ 0.012100	0.8500	0.102000	\$ 0.010285																																											
BURIED @ 24 GA.	0.000000	\$ 0.016600	0.8500	0.000000	\$ 0.014110																																											
UNDGRND @ 24 GA.	0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.009265																																											
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																											
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																											
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																											
--- TABLE 2 --- <table border="1"> <thead> <tr> <th>DATA DESC.</th> <th>CABLE TYPE MIX RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td>CHARACTERISTICS FOR:</td> <td>[F=sum(D*Type)]</td> <td></td> </tr> <tr> <td>AERIAL</td> <td>0.120000</td> <td></td> </tr> <tr> <td>BURIED</td> <td>0.000000</td> <td></td> </tr> <tr> <td>UNDERGRND</td> <td>0.880000</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> <td></td> </tr> </tbody> </table> --- TABLE 4 --- <table border="1"> <thead> <tr> <th>PAIR / FOOT INVESTMENT RANGE NAME</th> <th>MELDED GAUGES</th> <th>PAIR / FOOT INVESTMENT RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td>[G=sum(E*Type)]</td> <td></td> <td>[H=TYPE / sum(F*Type)]</td> <td></td> </tr> <tr> <td>\$ 0.012100</td> <td></td> <td>\$ 1.000000</td> <td></td> </tr> <tr> <td>\$ 0.016600</td> <td></td> <td>\$ 0.000000</td> <td></td> </tr> <tr> <td>\$ 0.010900</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> <td></td> <td></td> </tr> </tbody> </table>							DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	CHARACTERISTICS FOR:	[F=sum(D*Type)]		AERIAL	0.120000		BURIED	0.000000		UNDERGRND	0.880000		Check =	1.000000		PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	[G=sum(E*Type)]		[H=TYPE / sum(F*Type)]		\$ 0.012100		\$ 1.000000		\$ 0.016600		\$ 0.000000		\$ 0.010900				Check =	1.000000		
DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES																																														
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C:\123R24\LCATR039\FACILITY		LOOP COST ANALYSIS TOOL		Belcore (R)
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA		LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996	STUDY YR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996	LAST UPDATE: 17-Jan-97	TIME: 14:29
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS				
FOR DLC SYSTEMS ON COPPER LOOPS				
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :			24
Pair Gain Factor :	(When Investment Utilities or Band Width Mix are NOT Used)			
	The Average Number Of Voice Grade Circuit Equivalents Per System :			96
	The Average Number Of Transmission Pairs Plus Protection Per System :			10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :			2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] :			0.1250
NOTE: ① The value represents the extent to which copper pairs are gained. For example, a 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Total and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.				

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C:\123R24\LCATR039\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN**Bellcore** (R)

LCAT Rel: 07/31/95
Issued: 07/31/95

pggauge	In CSA rules, a single gauge is preferred for CDLC
vgcheqv	Each CDLC has a voice grade equivalent, usually referred to as a ____ Channel System. Domestic systems are basic 96 Channel, whereas, international are 120 Channel
xmsnpr	CDLC uses a Transmit/Receive Pair for each direction (unidirectional), therefore, the basic structure is four sets of two pairs plus one protection set (10 pairs)
suptpr	CDLC is customarily supported by a power pair and an alarm pair (2 pair)
pgfactor	Where : pgfactor = (# of xmsnpr + # of suptpr) / vgcheqv

***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\123R24\LCATR039\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Belcore [®]	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS WELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:29	
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT			
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT		
	[A]	[B]	[C=B/A]		
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000		
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000		
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000		
TABLE 4 DEVELOPMENT FOR:		COPPER CABLE UNIT INVESTMENT		FOR DLC Gauge: 24.00	
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT	BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	WORKING CHANNEL INVESTMENT / FOOT
DESCRIPTION	2 * (PF1cag) / [D]	(RPTR gaG) [E=C]		(ADLCPF1cag) [F=D+E]	(ADLCPM1cag) [G=F+D+E]
AERIAL @ 26 GA.	\$ 0.024200	\$ 0.000000		\$ 0.024200	\$ 0.024200
BURIED @ 26 GA.	\$ 0.033200	\$ 0.000000		\$ 0.033200	\$ 0.033200
UNDGRND @ 26 GA.	\$ 0.021800	\$ 0.000000		\$ 0.021800	\$ 0.021800
AERIAL @ 24 GA.	\$ 0.024200	\$ 0.000000		\$ 0.024200	\$ 0.024200
BURIED @ 24 GA.	\$ 0.033200	\$ 0.000000		\$ 0.033200	\$ 0.033200
UNDGRND @ 24 GA.	\$ 0.021800	\$ 0.000000		\$ 0.021800	\$ 0.021800
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000		\$ 0.000000	\$ 0.000000
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000		\$ 0.000000	\$ 0.000000
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000		\$ 0.000000	\$ 0.000000
NOTES:					
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.					

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C:\123R24\LCATR039\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)															
TABLE - SPAN_INV SHEET 4 / 4 COM: COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:29															
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS																			
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :																	
The Average Number of Terminals in the Service Access Segment of a Loop -																			
Proportion of Loops that use.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial</td> <td>0.00</td> </tr> <tr> <td>Buried</td> <td>0.00</td> </tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial Termination</td> <td>0</td> </tr> <tr> <td>Buried Termination</td> <td>0</td> </tr> </table>	Aerial Termination	0	Buried Termination	0								
Aerial	0.00																		
Buried	0.00																		
Aerial Termination	0																		
Buried Termination	0																		
The Average Drop Wire & Building Entrance Cable Installation -																			
Proportion of Loops that use..	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Buried Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>1.0000</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>0.0000</td> </tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest. for DW Investment (R/N)	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Buried Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>\$ 75.00</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>\$ 0.00</td> </tr> </table>	Aerial Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00
Aerial Wire Drops	0.0000																		
Buried Wire Drops	0.0000																		
Bldg Entrance Cable	1.0000																		
Aerial Coax/Wire Drops	0.0000																		
Aerial Wire Drops	\$ 0.00																		
Buried Wire Drops	\$ 0.00																		
Bldg Entrance Cable	\$ 75.00																		
Aerial Coax/Wire Drops	\$ 0.00																		
The Average Intrabuilding Cable Installation -																			
Proportion of Installations with Intrabuilding Cable	0.0000	Per Instn for a Intrabuilding Network Cable Pair	\$ 0.00																

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\\LCATR039\FACILITY
SPAN_INV
4

HELP SCREEN

Belcore[®]
LCAT Rel: 1.0.4
Issued: 07/31/95

termb These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network interface Block summary per circuit pair installation investment.

adropinv These facility investments may also include Drop Wire Block and/or Network interface summary per circuit pair installation investment.
bdropinv
bec
coaxinv

ibc This facility investment should include ALL the internal cross--connects and terminations for this type of installation as a circuit pair installation investment.

***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES *****

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CA123R24\LCATR039\FACTORS		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - FACTORS SHEET 1 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		STUDY YEAR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 17-Jan-97	
				TIME: 15:22	

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.0000
AERIAL CABLE (FIBER)	1.0000	0.2983
BURIED CABLE (FIBER)	1.0000	0.2724
UNDERGROUND (FO) CA.	1.0000	0.2689
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

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C:\123R24\LCATR039\INVEST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				LAST UPDATE: 17-Jan-97	
EQUIPMENT INVESTMENT		(Including Engineer, Furnish, & Install Costs)				14:32	
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT:							
For each cable pair associated with twisted pair copper cable				\$ 0.00			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
For each line repeater for one copper digroup (not svc lev)			\$ 0.00				
For an Office Repeater Bay for a T1 Line			\$ 0.00				
For a Universal DLC Equipment Arrangement			\$ 0.00	\$ 181.35	\$ 24.29	\$ 238.42	\$ 103.93
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 36.99		\$ 2.40	\$ 36.59	\$ 2.40
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement			\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
3. For a Fiber HUB and Fiber Remote Terminal Arrangement						\$ 0.00	\$ 0.00
4. For Fiber Ring Hub Arrangements (Extensions)						\$ 0.00	\$ 0.00
CEV HOUSING per CIRCUIT by SERVICE LEVEL:							
For CEV's used as fiber hubs for FO Multiplexer equipment							\$ 0.00
For CEV's used as remote terminals for CDLC equipment							\$ 0.00
[Unit Investment denotes average weighted unit E,F,I Investment at DS0, DS1, or DS3 service equiv.]							

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TABLE - EQUIP_INV

HELP INFORMATION

Bellcore (TM)

LCAT Rel: 1.0.4

Issued: 07/31/95

LCAT Commands Description

This Command will allow the User -

EDIT To Enter Values with DIRECT Input on a cell by cell basis.
 CLEAR To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items Description

This Equipment Item Represents -

Ofc Rept Bay A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.
 Integrated DLC The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.
 Universal DLC The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs:

COE Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip.	2,3,4 & 6
REM Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip.	2,3,4 & 6
COE Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.	1 & 5
REM Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.	1 & 5
REM Field Item 4	FITL Hubbed Arrangements, RING Span Equip, HUB Sites.	1,2,5 & 6

NOTE: THE DATA VALUES FOR THESE ITEMS SHOULD ALWAYS REPRESENT
 THE CIRCUIT EQUIVALENTS FOR THE BANDWIDTH DELIVERY OF THE STUDIED SERVICE

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\123R24\LCATR039\LOADING		LOOP COST ANALYSIS TOOL		Belcore [®]
TABLE - ADDNL_INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PI		LCAT Rpt: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:34
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment		1.0000
Building	1.0000	ALL Digital Loop Carrier Equip., or		0.7000
ALL Copper Cables, or		CO DLC Channel Unit		0.7000
Copper Feeder Cable	0.6000	REM DLC Channel Unit		0.7000
Copper Distribution Cable	0.3500	CO DLC Multiplex System		0.7000
Copper Entrance Cable	1.0000	REM DLC Multiplex System		0.7000
Copper Building Cable	0.3500	CO Digital Signal Crossconnect Bay		0.7000
Copper Building Terminal	0.3500	REM Digital Signal Crossconnect Bay		0.7000
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or		1.0000
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit		1.0000
Fiber Distribution Cable		REM Fiber Optic Channel Unit		1.0000
Fiber Entrance Cable		CO Fiber Optic Multiplex System		1.0000
Fiber Building Cable		REM Fiber Optic Multiplex System		1.0000
Fiber Building Terminal		CO Lightguide Terminating Equipment		1.0000
		REM Lightguide Terminating Equipment		1.0000
Poles	1.0000	Remote Housing: CEV		1.0000
Conduit	1.0000	PC Hrr		1.0000
		Gdm. Svc. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Bellcore** (R)

LCAT Rel : 1.0.4

Issued : 3/31/95

NOTE :

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.
- ③ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

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C:\123R24\LCATR039\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]																																																																																
TABLE - ADDNL INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:34																																																																																
SEGMENT <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">DISTRIBUTION</th> <th style="text-align: center;">FEEDER</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">② use <u>DEFAULT</u></td> </tr> <tr> <td>POLE LOADINGS:</td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>CONDUIT LOADINGS:</td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </tbody> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>The Cable PFI is being Adjusted for DW?</th> <th>NO</th> </tr> </thead> <tbody> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </tbody> </table> use <u>DEFAULT</u> ① ② for: <u>CENT. OFC.</u> <u>REMOTE SITE</u> LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>①</th> <th>②</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u></td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </tbody> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>①</th> <th>②</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u></td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </tbody> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>①</th> <th>②</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u></td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </tbody> </table>						DISTRIBUTION	FEEDER	② use <u>DEFAULT</u>			POLE LOADINGS:			Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment			Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment			CONDUIT LOADINGS:			Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			The Cable PFI is being Adjusted for DW?	NO	Aerial Cable		Buried Cable		Underground Cable			①	②	Other or <u>ALL</u>	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056		①	②	Other or <u>ALL</u>	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316		①	②	Other or <u>ALL</u>	0.1127	0.1127	Digital Loop Carrier	0.1127	0.1127	Fiber Optic Mux	0.1127	0.1127
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TABLE - ADDNL_INV
Sheet 2 of 2

HELP SCREEN

Bellcore (R)

LCAT Rel : 1.0.4
Issued : 3/31/95

Copper Cable Pole Investment Factor	cpiff	__dst	__fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cpufi	__dst	__fdr	Per unit length of aerial copper cable effective pair feet placed.
Fiber Cable Pole Investment Factor	fpiff	__dst	__fdr	Based on aerial fiber cable investment relationship to pole
Fiber Cable Pole Unit Investment	fpufi	__dst	__fdr	Per unit length of aerial fiber cable effective pair feet placed.
Copper Cable Conduit Investment Factor	cucff	__dst	__fdr	Based on underground copper cable investment relationship to conduit investment
Copper Cable Conduit Unit Investment	cucfi	__dst	__fdr	Per unit length of underground copper cable effective pair feet placed.
Fiber Cable Conduit Investment Factor	fucff	__dst	__fdr	Based on underground fiber cable investment relationship to conduit investment
Fiber Cable Conduit Unit Investment	fucfi	__dst	__fdr	Per unit length of underground fiber cable effective pair feet placed.

NOTES

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

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C:\123R24\LCATR039\SPAN		LOOP COST ANALYSIS TOOL		Bellcore										
INPUT - PLANT_CHAR. Sheet 1 / 5 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR INVESTMENT YEAR : 1996 LOOP STUDY YEAR : 1996 SERVICE CLASS : BAND 1 - PUBLIC COIN PHONE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 17-Jan-97 TIME : 14:39										
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY														
LOOP TOPOLOGY Loop FEEDER Network Configuration is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration is (S)tar or (B)us		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR		
ACTION SEGMENT														
PRIMARY	STAR													
PRIMARY	NA													
DISTRIBUTION	STAR													
SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal		<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td>6403.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>528.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>5465.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			TOTAL LOOP	6403.0	DISTRIBUTION	528.0	SUB-PRIMARY	300.0	PRIMARY	5465.0	PRIMARY-EXTENSION	
TOTAL LOOP	6403.0													
DISTRIBUTION	528.0													
SUB-PRIMARY	300.0													
PRIMARY	5465.0													
PRIMARY-EXTENSION														
LOOP LENGTH AT EACH COST BAND BAND 1 BAND 2 BAND 3 BAND 4 BAND 5		DISTRIBUTION OF COST BANDS IN THE NETWORK BAND 1 BAND 2 BAND 3 BAND 4 BAND 5												
LAST 6403.0		LAST 1.0000 1.0000 Hint												

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INPUT - PLANT_CHAR. Sheet 1 / 1		LOOP FACILITY INPUT		LCAT Rel : 1.0.4	
COMPANY: CINCINNATI BELL TEL.		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued : 07/31/95	
CITY / AREA: CINCINNATI		FOR		STUDY YR : 1996	
STATE / PROV: OHIO		INVESTMENT YEAR : 1996		TEST CASE : 1	
		LOOP STUDY YEAR : 1996		LAST UPDATE : 17-Jan-97	
		SERVICE CLASS : BAND 1 - PUBLIC COIN PHONE		TIME : 14:39	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
LOOP LENGTH 6403 FEET					
DROP DISTRIBUTION FEEDER 2 1					
538 FEET 5765 FEET					
SUB-PRIMARY EXTENSION PRIMARY 3 4 5					
FIBER DISTRIBUTION					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE REMOTE TERMINAL (LOOP MULTIPLE INTERFACE) REMOTE NODE (LOOP TRANSFER) FEEDER HUB END OFFICE					

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INPUT - PLANT_CHAR. Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT Rel : 1.0.4 Issued : 07/31/95	
AVERAGE NETWORK STUDY - This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1. INDIVIDUAL CIRCUIT STUDY - This mode of LCAT is used to cost study circuit specifics on an individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4. DATA SAMPLE NETWORK STUDY - This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot. BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth support. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the this of usage develops a more precise unit investment to the feeder calculations.					
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****					
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INPUT - PLANT CHAR. Sheet 2 of 2		HELP SCREEN		LCAT Rev: 11.0.4 Issued: 07/31/95
COST DETAILS	When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User. When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.			
LOOP TOPOLOGY	When the Loop Topology (circuit layout format) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.			
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION ***** PRESS 'ENTER' TO RETURN TO THE MAIN MENU				

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INPUT - PLANT CHAR. Sheet 2a / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: 0 CITY / AREA: 0 STATE / PROV: 0		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:39	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT
CAPACITY [C]	idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E _U]
4 FIBER CABLE	2 pr		0.0		0.0		0.0
6 FIBER CABLE	3 pr		0.0		0.0		0.0
12 FIBER CABLE	6 pr		0.0		0.0		0.0
18 FIBER CABLE	9 pr		0.0		0.0		0.0
24 FIBER CABLE	12 pr		0.0		0.0		0.0
36 FIBER CABLE	18 pr		0.0		0.0		0.0
48 FIBER CABLE	24 pr		0.0		0.0		0.0
60 FIBER CABLE	30 pr		0.0		0.0		0.0
72 FIBER CABLE	36 pr		0.0		0.0		0.0
84 FIBER CABLE	42 pr		0.0		0.0		0.0
96 FIBER CABLE	48 pr		0.0		0.0		0.0
144 FIBER CABLE	72 pr		0.0		0.0		0.0
192 FIBER CABLE	96 pr		0.0		0.0		0.0
216 FIBER CABLE	108 pr		0.0		0.0		0.0
CUMULATIVE LENGTHS OF FEEDER:							
AERIAL FIBER SUBTOTAL			0				0.0
BURIED FIBER SUBTOTAL			0				0.0
UNDGRD FIBER SUBTOTAL			0				0.0
FIBER SUBTOTAL			0				0.0

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PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 17-Jan-97	
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET B		TIME: 14:39	

EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = $\frac{[E] \text{WKSH A}}{[A] \text{WKSH C}}$
 CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = $[A] * [C] * \text{UNIT INV FACILITY WKSH B}$

CAPACITY			AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
For these sizes ...	[C]	idx	[A]	[B]	[A]	[B]	[A]	[B]
4 FIBER CABLE	2 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
6 FIBER CABLE	3 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
12 FIBER CABLE	6 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
18 FIBER CABLE	9 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
24 FIBER CABLE	12 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
36 FIBER CABLE	18 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
48 FIBER CABLE	24 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
60 FIBER CABLE	30 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
72 FIBER CABLE	36 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
84 FIBER CABLE	42 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
96 FIBER CABLE	48 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
144 FIBER CABLE	72 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
192 FIBER CABLE	96 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
216 FIBER CABLE	108 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
SUBTOTAL				\$ 0.00		\$ 0.00		\$ 0.00

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INPUT - PLANT CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER			LCAT Rel : 1.0.4 Issued : 07/31/95					
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC C			STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 17-Jan-97 TIME: 14:39					
NETWORK CIRCUIT LAYOUT STUDIES										
WORKSHEET A										
CUMULATIVE LENGTHS BY CABLE PAIR FOOT										
CABLE SHEATH SIZES	CAPACITY idx	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0

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PLANT CHAR - WORKSHEET 35 Sheet 3b / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL.			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1		
CITY / AREA: CINCINNATI			SERVICE CLASS: BAND 1 - PUBLIC CI						LAST UPDATE: 17-Jan-97		
STATE: OHIO									TIME: 14:30		
NETWORK CIRCUIT LAYOUT STUDIES			WORKSHEET 5								
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES			26 GA.			24 GA.			22 GA.		
CAPACITY	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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C:\123R24\LCATR039\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC CI						STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 17-Jan-97 TIME: 14:39		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY pr	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0						0.0

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C:\123R24\LCATR039\SPAN

LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR - WORKSHEET 4B
Sheet 4b / 5LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER
FORLCAT Rel : 1.0.4
Issued : 07/31/95COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATIINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996STUDY YR : 1996
TEST CASE : 1

LAST UPDATE: 17-Jan-97

STATE: OHIO

SERVICE CLASS: BAND 1 - PUBLIC C

TIME: 14:39

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.		
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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C:\123R24\LCATR039\SPAN		LOOP COST ANALYSIS TOOL						Bellcore (R)	
INPLT - PLANT_CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR						LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL CITY/AREA: CINCINNATI STATE/PROV: OHIO		INVESTMENT YEAR: 1998 LOOP STUDY YEAR: 1998 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Jan-97 TIME: 14:39	
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL		LEVEL OF SERVICE: NARBAND							
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE PROTECTION	WEIGHTED EQUIVALENT CHANNELS
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL	PER FO PAR
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE [SLM]	n: 1 [E] [F]
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0		
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1 1979.04
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1 1979.04
FOOTNOTES 1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BROBAND} TIMES {2 for Unidirectional, 1 for Bidirectional}. 2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1-->7} DIVIDED BY {The [SLM] TIMES (1 PLUS 1 OVER PROT [E])}									

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PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 17-Jan-97

TIME: 14:39

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)						
SELECT	MODE	HIERARCHY	BNDWD	DS1MULT	DS3MULT	VEG
0						
1		DS1	1.5 Mbds	1	0.04	24
2	MODE3	DS1	1.5 Mbds	1	0.04	24
3		V11.5	1.5 Mbds	1	0.04	24
4		V12	2 Mbds	1	0	UNDIR FIBER
5		E1	2 Mbds	1	0.08	30
6	MODE1	DS1C	3.2 Mbds	NA		48
7	MODE2	DS1C	3.2 Mbds	2	0.07	48
8		V13	3.2 Mbds	2	0.07	56
9			4 Mbds	2	0	80
10		DS2	6.3 Mbds	4	0.14	72
11	MODE4	DS2	6.3 Mbds	NA		72
12		V16	6.3 Mbds	4	0.14	84
13		E2	8 Mbds	4	0.25	120
14		E3	34 Mbds	16		480
15	X	DS3	45 Mbds	28	1	672
16		OC1	50 Mbds	28	1	672
17	X		90 Mbds		2	1344
18			90 Mbds		2	1344
19		DS4	135 Mbds		3	2016
20			135 Mbds		3	2016
21		DS4NA	139 Mbds		3	2016
22		E4	140 Mbds		3	1920
23		F4M	139 Mbds		6	4032
24		F140	139 Mbds		6	4032
25	X	OC3	155 Mbds	4	3	2016
26	X		180 Mbds	4	4	2688
27			417 Mbds		9	6048
28		OC9	466 Mbds		9	6048
29		OC12	560 Mbds		12	8064
30			565 Mbds		12	8064
31			1.2 Gbds		24	16128
32			1.7 Gbds		36	24192
33		OC24	1.8 Gbds		24	24192
34			2.5 Gbds		36	32256
35						
36						
0	1	2	3	5	7	
OFFSET						

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PLANT_CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR.: 1996

TEST CASE: 1

LAST UPDATE: 17-Jan-97

TIME: 14:39

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE: OHIO

FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - PUBLIC CO
WORKSHEET F

[A] [B] BAND NUMBER [C]	DISTANCE INCREMENTS: NUMBER OF BANDS: TOTAL WORKING FEET [D=input]	0 / 4 MILE BETWEEN BANDS 0 TO BE CARRIED INTO THE STUDY TOTAL WORKING FEET [E=(B*D)]	TOTAL AIR FEET [F=A*C*K]	ROUTE TO AIR RATIO: UNIT MILE / FEET CONSTANT: LOOP LENGTH @ MIDPOINT [G (see note)]	1.539947 1320 WORKING FEET @ MIDPOINT [H=G*R]	ratio
1		0		0	0	
2		0		0	0	
3		0		0	0	
4		0		0	0	
5		0		0	0	

ERROR MESSAG 0

NOTE - SPAN MIDPOINT [G] equals $\sqrt{\text{SCRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))}$

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C:\123R24\LCATR039\SPAN	LOOP COST ANALYSIS TOOL	Bellcore [®]
PLANT CHAR. -- WORKSHEET SA		LCAT Ver: 1.0.4
Sheet 1 / 1		Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.		STUDY YR: 1996
CITY/AREA: CINCINNATI		TEST CASE: 1
STATE/PROV: OHIO		LAST UPDATE: 17-Jan-97
	WORKSHEET SA	TIME: 14:39

Sub Feeder Allocation Table

Sub Feeder Allocation Table										
cur lplgth	segment alloc									
cur lplgth = 12000	NO COLOCATED					COLOCATED RT AND CP, where				
dlcdepl = 638	dstopo = STAF					dstopo = STAF				
[B]dstop = 638	dstopo = BUS					dstopo = BUS				
nom_range	cur	dis	sub	feed	prfeeder	sub	feed	prfeeder	diff	
	[C]	[D=C-I]	[E]	[F=D-E]	[G]	[H=D-G]	[I]	[J=C-I]	[K]	[L=C-K]
										[M=A-C]
500	0	0	0	0	0	0	0	0	0	8403
1000	362	362	0	0	0	0	0	0	0	5903
2000	1362	1362	0	0	0	0	0	0	0	5403
3000	2362	2362	0	0	0	0	0	0	0	4403
4000	3362	3362	0	0	0	0	0	0	0	3403
5000	4362	4362	0	0	0	0	0	0	0	2403
6000	5362	5362	0	0	0	0	0	0	0	1403
7000	6362	6362	0	0	0	0	0	0	0	403
8000	7362	7362	0	0	0	0	0	0	0	-597
9000	8362	8362	0	0	0	0	0	0	0	-1597
10000	9362	9362	0	0	0	0	0	0	0	-2597
11000	10362	10362	0	0	0	0	0	0	0	-3597
12000	11362	5681	5681	0	0	11362	6000	6000	0	-4597
13000	12362	6181	6181	0	0	12362	6500	6500	0	-5597
14000	13362	6681	6681	0	0	13362	7000	7000	0	-6597
15000	14362	7181	7181	0	0	14362	7500	7500	0	-7597
16000	15362	7681	7681	0	0	15362	8000	8000	0	-8597
17000	16362	8181	8181	0	0	16362	8500	8500	0	-9597
18000	17362	8681	8681	1000	0	17362	9000	9000	1000	-10597
19000	18362	9181	9181	2000	0	18362	9500	9500	2000	-11597
20000	19362	9681	9681	3000	0	19362	10000	10000	3000	-12597
80000	79362	11362	68000	4000	0	28362	11362	68638	4000	-73597

RULES

ASSUMPTION - Table LOOKUP will select from the lower NOM_RANGE of a CUR_LPLGTH intermediate value
 If CUR_LPLGTH is

- = < DISTSPAN, then CUR_SEGLGTHST Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEGLGTHST Equals CUR_LPLGTH - NOM_RANGE difference
- > DLCDEPL, then CUR_SEGLGTHST Equals CUR_LPLGTH - NOM_RANGE difference

CUR_SEGLGTH - Calculation Assumptions

The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA.
 Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.

**OHIO ONLY
3 Geographic Areas**

07/26/96
Revised

Band 1

1	0-12,000
2	# Of Entries
3	12,001-INFINITY
4	# Of Entries
5	Ratio
6	0-12,000
7	12,001-INFINITY

Residence			Business		
Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
A	B	C	D	E	F
6,081	1,103	7,184	5,765	638	6,403
107			255		
14,881	2,346	17,226	13,630	2,046	15,677
53			38		
0.5744			0.7433		
0.4256			0.2567		
1.0000			1.0000		

Band 2

8	0-14,000
9	# Of Entries
10	14,001-INFINITY
11	# Of Entries
12	Ratio
13	0-14,000
14	14,001-INFINITY

6,697	1,836	8,534	5,698	1,013	6,711
69			90		
19,582	2,699	22,282	21,785	1,989	23,774
70			74		
0.4964			0.5488		
0.5036			0.4512		
1.0000			1.0000		

Band 3

15	0-18,000
16	# Of Entries
17	18,001-INFINITY
18	# Of Entries
19	Ratio
20	0-18,000
21	18,001-INFINITY

4,845	1,981	6,825	4,512	1,095	5,608
46			41		
23,301	4,826	28,127	23,881	3,479	27,360
56			30		
0.4510			0.5775		
0.5490			0.4225		
1.0000			1.0000		

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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore (2)	
	PROSPECTIVE INVESTMENT SUMMARY REPORT							LCAT Rel: 1.0.4	STUDY YR: 1996
0	C:\123R24\LCATR040\RESULTS1							Issued: 7/31/95	TEST CASE: 1
1	OUTPUT - REPORT D								RUN DATE: 28-Jan-97
2	SHEET 1 of 1								TIME: 11:48
3	COMPANY: CINCINNATI BELL TEL							CIRCUIT DESIGN: TOTAL TECHNOLOGIES	
4	CITY / AREA: CINCINNATI							LOOP SPAN DIVISION: ALL LOOP SPANS	
5	STATE / PROV: OHIO							SERVICE CLASS: BAND 1 - PUBLIC COIN P1	
6	JOB IDENT: CINCINNATI							TOTAL LOOP LENGTH: 15677 FEET	
7	Loop Span Set Weighting: 1							UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
8	PLANT NAME							WEIGHTED TOTAL LOOP	
9	SEG. NAME								
10	EQPT								
11	CODE								
12	ITEM DESCRIPTION								
13	SEG. LGTH.								
14	<u>SHARED RESOURCES</u>								
15	LAND	20C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0756	
16	BUILDING	10C	\$ 2.25	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.2463	
17	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
18	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
19	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
20	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
21	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
22	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
23	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
24	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
26	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
27	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
28	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
29	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
30	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
31	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
32	MISC. COM EQP & PWR	57C	\$ 0.89	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.8931	
33	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
35	<u>DIRECT RESOURCES</u>								
36	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
37	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
38	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513	
39	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
40	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.02	\$ 4.60	\$ 0.00	\$ 4.6200	
41	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.78	\$ 0.00	\$ 1.7800	
42	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 2.54	\$ 0.00	\$ 2.6900	
43	CO EQPT - LOW CAP TERM	257C	\$ 5.92	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 5.9241	
44	CO EQPT - LOW CAP CHAN	257C	\$ 19.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 19.3944	
45	CO EQPT - HI CAP TERM	857C	\$ 1.55	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.5466	
46	CO EQPT - HI CAP CHAN	857C	\$ 2.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.3926	
47	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
48	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
49	AERIAL CABLE (FIBER)	822C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0258	
50	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
51	UNDERGROUND (FO) CA.	85C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0632	
52	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
53	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
54	POLE LINE	1C	\$ 0.01	\$ 0.00	\$ 0.00	\$ 1.10	\$ 0.00	\$ 1.1165	
55	CONDUIT	4C	\$ 0.03	\$ 0.00	\$ 0.05	\$ 0.00	\$ 0.00	\$ 0.0810	
	SPAN SUMMARY		\$ 32.60	\$ 0.00	\$ 0.23	\$ 0.00	\$ 0.00	\$ 46.20	
								\$ 46.20	

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OUTPUT - COST_REPORTS

Belcore^(R)
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 12001 FEET - INFINITY INTRA

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	20-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	09:28
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

....your report is ready for viewing

CONFIDENTIAL
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

PROPRIETARY - NOT FOR USE/DISCLOSURE OUTSIDE Belcore WITHOUT LICENSED PERMISSION

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C:\123R24\LCATR040\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATI

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT DESIGN : 1 CDLC
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 1 - PUBLIC COIN PI
TOTAL LOOP LENGTH : 15677 FEET

LCAT Ref : 1.0.4
Issued : 7/31/95
STUDY YR : 1998
TEST CASE : 1
RUN DATE : 28-Jan-97
TIME : 11:48

CONFIDENTIAL
MUST BE GIVEN TO PUBLIC
PROVIDED TO PUBLIC

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Circuit Design Mix : 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME SEG. NAME EQPT CODE	FEEDER			DISTRIBUTION NETWORK		TOTAL LOOP	WEIGHTED TOTAL LOOP
	PRIMARY	EXTENSION	SUB-	INTERFACE			
SHARED RESOURCES							
LAND	20C	\$ 0.07		\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.07
BUILDING	10C	\$ 1.97		\$ 0.00	\$ 0.00	\$ 1.97	\$ 1.97
BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.75		\$ 0.00	\$ 0.00	\$ 0.75	\$ 0.75
POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES							
LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.27		\$ 0.02	\$ 4.60	\$ 4.89	\$ 4.89
BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 1.78	\$ 1.78	\$ 1.78
UNDERGROUND (CU) CA.	5C	\$ 1.63		\$ 0.15	\$ 2.54	\$ 4.32	\$ 4.32
CO EQPT - LOW CAP TERM	257C	\$ 7.71		\$ 0.00	\$ 0.00	\$ 7.71	\$ 7.71
CO EQPT - LOW CAP CHAN	257C	\$ 19.39		\$ 0.00	\$ 0.00	\$ 19.39	\$ 19.39
CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.06		\$ 0.01	\$ 0.10	\$ 1.17	\$ 1.17
CONDUIT	4C	\$ 0.58		\$ 0.05	\$ 0.90	\$ 1.53	\$ 1.53
SPAN SUMMARY		\$ 32.42	\$ 0.00	\$ 0.23	\$ 10.92	\$ 2.45	\$ 46.03
CIRCUIT DESIGN SUMMARY							\$ 46.03

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GC:\123R24\LCATR040\RESULTS1
OUTPUT - WORKSHEET D
SHEET 2 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellcore**[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
DATE: 28-Jan-97
TIME: 11:45COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - PUBLIC COIN PI
TOTAL LOOP LENGTH: 15677 FEET

Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	
EQPT CODE					

PLANT

ITEM DESCRIPTION

SHARED RESOURCES

8	LAND	20C			\$0	\$0
9	BUILDING	10C			\$0	\$0
10	BLDG ENTRANCE CABLE	12C			\$0	\$0
11	INTRABLDG CABLE	52C			\$0	\$0
12	AERIAL CABLE (COPPER)	22C			\$0	\$0
13	BURIED CABLE (COPPER)	45C			\$0	\$0
14	UNDERGROUND (CU) CA.	5C			\$0	\$0
15	CO EQPT - LOW CAP TERM	257C			\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C			\$0	\$0
17	CO EQPT - HI CAP TERM	857C			\$0	\$0
18	CO EQPT - HI CAP CHAN	857C			\$0	\$0
19	CO EQPT - ANALOG SW	77C			\$0	\$0
20	CO EQPT - DIGITAL SW	377C			\$0	\$0
21	AERIAL CABLE (FIBER)	822C			\$0	\$0
22	BURIED CABLE (FIBER)	845C			\$0	\$0
23	UNDERGROUND (FO) CA.	85C			\$0	\$0
24	CONNECTORS	57C			\$0	\$0
25	MISC. COM EQP & PWR	57C			\$0	\$0
26	POLE LINE	1C			\$0	\$0
27	CONDUIT	4C			\$0	\$0

DIRECT RESOURCES

30	LAND	20C			\$0	\$0
31	BUILDING	10C			\$0	\$0
32	BLDG ENTRANCE CABLE	12C			\$0	\$0
33	INTRABLDG CABLE	52C			\$0	\$0
34	AERIAL CABLE (COPPER)	22C			\$0	\$0
35	BURIED CABLE (COPPER)	45C			\$0	\$0
36	UNDERGROUND (CU) CA.	5C			\$0	\$0
37	CO EQPT - P GAIN TERM	257C			\$0	\$0
38	CO EQPT - P GAIN CHAN	257C			\$0	\$0
39	CO EQPT - FO MUX TERM	857C			\$0	\$0
40	CO EQPT - FO MUX CHAN	857C			\$0	\$0
41	CO EQPT - ANALOG SW	77C			\$0	\$0
42	CO EQPT - DIGITAL SW	377C			\$0	\$0
43	AERIAL CABLE (FIBER)	822C			\$0	\$0
44	BURIED CABLE (FIBER)	845C			\$0	\$0
45	UNDERGROUND (FO) CA.	85C			\$0	\$0
46	CONNECTORS	57C			\$0	\$0
47	MISC. COM EQP & PWR	57C			\$0	\$0
48	POLE LINE	1C			\$0	\$0
49	CONDUIT	4C			\$0	\$0

SPAN SUMMARY

CIRCUIT DESIGN SUMMARY

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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore (R)	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY							LCAT Rel : 1.0.4	
0	C:\123R24\LCATR040\RESULTS1							Issued : 7/31/95	
1	OUTPUT - WORKSHEET D							STUDY YR : 1996	
2	SHEET 3 of 10							TEST CASE : 1	
3	COMPANY: CINCINNATI BELL TEL							RUN DATE : 28-Jan-97	
4	CITY / AREA: CINCINNATI							TIME : 11:48	
5	STATE / PROV: OHIO								
6	JOB IDENT: CINCINNATI								
7	CIRCUIT DESIGN: MELDED								
8	LOOP SPAN DIVISION: ALL LOOP								
9	SERVICE CLASS: BAND 1 - PUBLIC COIN PI								
10	TOTAL LOOP LENGTH: 15677 FEET								
11	Technology Type Mix: 0.0000								
12	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							TECHNOLOGY	
13	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK							WEIGHTED	
14	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE TOTAL LOOP							TOTAL LOOP	
15	EQPT								
16	PLANT CODE								
17	ITEM DESCRIPTION								
18	SHARED RESOURCES								
19	LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.0000
20	BUILDING	10C	\$ 1.97	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.97	\$ 0.0000
21	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
26	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
29	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
30	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
33	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
35	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
36	MISC. COM EQP & PWR	57C	\$ 0.75	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.75	\$ 0.0000
37	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	DIRECT RESOURCES								
40	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
41	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
43	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
44	AERIAL CABLE (COPPER)	22C	\$ 0.27	\$ 0.00	\$ 0.02	\$ 4.60	\$ 0.00	\$ 4.89	\$ 0.0000
45	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.78	\$ 0.00	\$ 1.78	\$ 0.0000
46	UNDERGROUND (CU) CA.	5C	\$ 1.63	\$ 0.00	\$ 0.15	\$ 2.54	\$ 0.00	\$ 4.32	\$ 0.0000
47	CO EQPT - P GAIN TERM	257C	\$ 7.71	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.71	\$ 0.0000
48	CO EQPT - P GAIN CHAN	257C	\$ 19.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 19.39	\$ 0.0000
49	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
50	CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
51	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
52	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
53	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
54	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
55	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
56	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
57	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
58	POLE LINE	1C	\$ 0.06	\$ 0.00	\$ 0.01	\$ 1.10	\$ 0.00	\$ 1.17	\$ 0.0000
59	CONDUIT	4C	\$ 0.58	\$ 0.00	\$ 0.05	\$ 0.90	\$ 0.00	\$ 1.53	\$ 0.0000
60	SPAN SUMMARY		\$ 32.42	\$ 0.00	\$ 0.23	\$ 10.92	\$ 2.45	\$ 46.03	\$ 0.00
61	TECHNOLOGY DESIGN SUMMARY							\$ 46.03	

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C:\123R24\LCATR040\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 4 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN:		1 FOMUX		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION:		ALL LOOP SPANS		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS:		BAND 1 - PUBLIC COIN PI		RUN DATE: 28-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH:		15677 FEET		TIME: 11:48	

Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT								LOOP	
CODE								LOOP	
PLANT									
ITEM DESCRIPTION									
SHARED RESOURCES									
LAND		20C						\$0 \$0	
BUILDING		10C						\$0 \$0	
BLDG ENTRANCE CABLE		12C						\$0 \$0	
INTRABLDG CABLE		52C						\$0 \$0	
AERIAL CABLE (COPPER)		22C						\$0 \$0	
BURIED CABLE (COPPER)		45C						\$0 \$0	
UNDERGROUND (CU) CA.		5C						\$0 \$0	
CO EQPT - LOW CAP TERM		257C						\$0 \$0	
CO EQPT - LOW CAP CHAN		257C						\$0 \$0	
CO EQPT - HI CAP TERM		857C						\$0 \$0	
CO EQPT - HI CAP CHAN		857C						\$0 \$0	
CO EQPT - ANALOG SW		77C						\$0 \$0	
CO EQPT - DIGITAL SW		377C						\$0 \$0	
AERIAL CABLE (FIBER)		822C						\$0 \$0	
BURIED CABLE (FIBER)		845C						\$0 \$0	
UNDERGROUND (FO) CA.		85C						\$0 \$0	
CONNECTORS		57C						\$0 \$0	
MISC. COM EQP & PWR		57C						\$0 \$0	
POLE LINE		1C						\$0 \$0	
CONDUIT		4C						\$0 \$0	
DIRECT RESOURCES									
LAND		20C						\$0 \$0	
BUILDING		10C						\$0 \$0	
BLDG ENTRANCE CABLE		12C						\$0 \$0	
INTRABLDG CABLE		52C						\$0 \$0	
AERIAL CABLE (COPPER)		22C						\$0 \$0	
BURIED CABLE (COPPER)		45C						\$0 \$0	
UNDERGROUND (CU) CA.		5C						\$0 \$0	
CO EQPT - LOW CAP TERM		257C						\$0 \$0	
CO EQPT - LOW CAP CHAN		257C						\$0 \$0	
CO EQPT - HI CAP TERM		857C						\$0 \$0	
CO EQPT - HI CAP CHAN		857C						\$0 \$0	
CO EQPT - ANALOG SW		77C						\$0 \$0	
CO EQPT - DIGITAL SW		377C						\$0 \$0	
AERIAL CABLE (FIBER)		822C						\$0 \$0	
BURIED CABLE (FIBER)		845C						\$0 \$0	
UNDERGROUND (FO) CA.		85C						\$0 \$0	
CONNECTORS		57C						\$0 \$0	
MISC. COM EQP & PWR		57C						\$0 \$0	
POLE LINE		1C						\$0 \$0	
CONDUIT		4C						\$0 \$0	
SPAN SUMMARY		\$0		\$0		\$0		\$0 \$0	
								\$0	

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A B C D E F G	LOOP COST ANALYSIS TOOL										Bellcore (R)	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
	C:\123R24\LCATR040\RESULTS1										Issued: 7/31/95	
	OUTPUT - WORKSHEET D										STUDY YR: 1996	
	SHEET 6 of 10										TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL										RUN DATE: 28-Jan-97	
	CITY / AREA: CINCINNATI										TIME: 11:45	
	STATE / PROV: OHIO											
	JOB IDENT: CINCINNATI											
	CIRCUIT DESIGN: 3 FOMUX											
	LOOP SPAN DIVISION: ALL LOOP SPANS											
	SERVICE CLASS: BAND 1 - PUBLIC COIN PI											
	TOTAL LOOP LENGTH: 15677 FEET											
0	Circuit Design Mix: 1.0000											
1	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
2	PLANT NAME											
3	SEG. NAME											
4	EQPT CODE											
5	PLANT											
6	ITEM DESCRIPTION											
7	SHARED RESOURCES											
8	LAND	20C	\$ 0.08		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.08	\$ 0.08		
9	BUILDING	10C	\$ 2.25		\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.25	\$ 2.25	\$ 2.25		
10	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
11	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
12	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
13	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
14	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
17	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
19	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
20	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
21	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
22	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
23	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
24	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
25	MISC. COM EQP & PWR	57C	\$ 0.89		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.89	\$ 0.89	\$ 0.89		
26	POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
27	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
28												
29	DIRECT RESOURCES											
30	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
31	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
32	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45		
33	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
34	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.02	\$ 4.60	\$ 4.62	\$ 4.62	\$ 4.62	\$ 4.62		
35	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 1.78	\$ 1.78	\$ 1.78	\$ 1.78	\$ 1.78		
36	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.15	\$ 2.54	\$ 2.69	\$ 2.69	\$ 2.69	\$ 2.69		
37	CO EQPT - LOW CAP TERM	257C	\$ 5.92		\$ 0.00	\$ 0.00	\$ 5.92	\$ 5.92	\$ 5.92	\$ 5.92		
38	CO EQPT - LOW CAP CHAN	257C	\$ 19.39		\$ 0.00	\$ 0.00	\$ 19.39	\$ 19.39	\$ 19.39	\$ 19.39		
39	CO EQPT - HI CAP TERM	857C	\$ 1.55		\$ 0.00	\$ 0.00	\$ 1.55	\$ 1.55	\$ 1.55	\$ 1.55		
40	CO EQPT - HI CAP CHAN	857C	\$ 2.39		\$ 0.00	\$ 0.00	\$ 2.39	\$ 2.39	\$ 2.39	\$ 2.39		
41	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
42	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
43	AERIAL CABLE (FIBER)	822C	\$ 0.03		\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.03	\$ 0.03	\$ 0.03		
44	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
45	UNDERGROUND (FO) CA.	85C	\$ 0.06		\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06		
46	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
47	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
48	POLE LINE	1C	\$ 0.01		\$ 0.01	\$ 1.10	\$ 1.12	\$ 1.12	\$ 1.12	\$ 1.12		
49	CONDUIT	4C	\$ 0.03		\$ 0.05	\$ 0.90	\$ 0.98	\$ 0.98	\$ 0.98	\$ 0.98		
50												
51	SPAN SUMMARY											
52			\$ 32.60	\$ 0.00	\$ 0.23	\$ 10.92	\$ 2.45	\$ 46.20	\$ 46.20	\$ 46.20		
53												
54												
55												

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A B C D E F G		C:\123R24\LCATR340\RESULTS1 OUTPUT - WORKSHEET D SHEET 7 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore (R)	
		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN : 4 FOMUX		LCAT Rel: 1.0.4		Issued: 7/31/95	
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		STUDY YR: 1996		TEST CASE: 1	
		STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PI		RUN DATE: 28-Jan-97		TIME: 11:43	
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 15677 FEET					
0		Circuit Design Mix: [0.0000] UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	WEIGHTED		
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL	LOOP
3		EQPT							
4		PLANT							
5		CODE							
6		ITEM DESCRIPTION							
7		<u>SHARED RESOURCES</u>							
8		LAND	20C				\$0	\$0	
9		BUILDING	10C				\$0	\$0	
10		BLDG ENTRANCE CABLE	12C				\$0	\$0	
11		INTRABLDG CABLE	52C				\$0	\$0	
12		AERIAL CABLE (COPPER)	22C				\$0	\$0	
13		BURIED CABLE (COPPER)	45C				\$0	\$0	
14		UNDERGROUND (CU) CA.	5C				\$0	\$0	
15		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
16		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
17		CO EQPT - HI CAP TERM	857C				\$0	\$0	
18		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
19		CO EQPT - ANALOG SW	77C				\$0	\$0	
20		CO EQPT - DIGITAL SW	377C				\$0	\$0	
21		AERIAL CABLE (FIBER)	822C				\$0	\$0	
22		BURIED CABLE (FIBER)	845C				\$0	\$0	
23		UNDERGROUND (FO) CA.	85C				\$0	\$0	
24		CONNECTORS	57C				\$0	\$0	
25		MISC. COM EQP & PWR	57C				\$0	\$0	
26		POLE LINE	1C				\$0	\$0	
27		CONDUIT	4C				\$0	\$0	
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND	20C				\$0	\$0	
31		BUILDING	10C				\$0	\$0	
32		BLDG ENTRANCE CABLE	12C				\$0	\$0	
33		INTRABLDG CABLE	52C				\$0	\$0	
34		AERIAL CABLE (COPPER)	22C				\$0	\$0	
35		BURIED CABLE (COPPER)	45C				\$0	\$0	
36		UNDERGROUND (CU) CA.	5C				\$0	\$0	
37		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
38		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
39		CO EQPT - HI CAP TERM	857C				\$0	\$0	
40		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
41		CO EQPT - ANALOG SW	77C				\$0	\$0	
42		CO EQPT - DIGITAL SW	377C				\$0	\$0	
43		AERIAL CABLE (FIBER)	822C				\$0	\$0	
44		BURIED CABLE (FIBER)	845C				\$0	\$0	
45		UNDERGROUND (FO) CA.	85C				\$0	\$0	
46		CONNECTORS	57C				\$0	\$0	
47		MISC. COM EQP & PWR	57C				\$0	\$0	
48		POLE LINE	1C				\$0	\$0	
49		CONDUIT	4C				\$0	\$0	
50									
51		SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	
52									
53									
54									
55									

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Bellcore[®]

RUN - DIST PLNT

LCAT

LAST UPDATE

28-Jan-97

11:26

LOOP COST ANALYSIS TOOL

Release: 1.0.4

Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 12001 FEET - INF

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKTS	1
CST METH	UN INCR	INV LEVEL	ANN COST

....your run is finished

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C:\123R24\LCATCALC.DIST
DIST_PLNT - WORKSHEET A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore (R)

BASIC INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LCAT Release: 1.0.4
Issue Date: 8/31/96
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:43

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM - TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM - TABLE 4 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*fctr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fctr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
2046.0	AERIAL	0.590000	1207.1	0.039700	47.92		0.00	0.00	
CONSIDERS: MELDED	BURIED	0.160000	327.4	0.065700	21.51		0.00	0.00	
COPPER CABLE	UNDERGRND	0.250000	511.5	0.056900	29.10		0.00	0.00	
Check =		1.000000	2046.0						
OUTSIDE PLANT LOADINGS (NOTE 4)									
DROP WIRE ADJUSTMENT:					AIR DRYER LOADINGS:				
AERIAL CA. =		0.0000	AERIAL CA. =		0.0000				
BURIED CA. =		0.0000	BURIED CA. =		0.0000				
UNDERGRND =		0.0000	UNDERGRND =		0.0000				
OTHER INVESTMENT									
inv / unit lgth:					inv rtn fctr:				
POLE LINE FACTOR (PLF) = 0.0000					0.2530				
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 34.64									
UG CONDUIT FACTOR (UCF) = 0.0000					0.5165				
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 42.95									
FOOTNOTES									
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING									
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A									
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO									
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)									

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LOOP COST ANALYSIS TOOL											Bellcore (R)	
DIST. PLANT - WORKSHEET A				ACCOUNT INVESTMENT WORKSHEET				LCAT Release: 1.0.4				
Sheet: 2 of 3				SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL				Issue Date: 8/31/95				
COMPANY: CINCINNATI BELL TEL.				FACILITY TYPE: COPPER CABLE				STUDY YR: 1996				
CITY / AREA: CINCINNATI				CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)				TEST CASE: 1				
STATE / PROV: OHIO				SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				RUN DATE: 28-Jan-97				
								TIME: 11:43				
PLANT		CAT.	1996 UNIT	1996 UNIT		ADMIN.	1996 UNIT					
ACCT		FIXED	INVESTMENT	LOOP INVESTMENT		UTIL.	LOOP INVESTMENT					
CODE		VARI	BY ACCOUNT	EXCL. UTILIZATION		LINE	EXCL. UTILIZATION					
PLANT ITEM		ALLOCATION	COST	CIRCUIT	SHARED	DIRECT	SHARED	DIRECT				
		EQUATION	[F]	QUANTITY	RESOURCES	RESOURCES	[H=F*G]	[H'=F*G]				
				[G]								
8	LAND	20C	F	SHARED					1.0000			
9	BUILDING	10C	F	SHARED					1.0000			
10	BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
11	INTRABLDG CABLE	52C	V	DIRECT					0.3500			
12	AERIAL CABLE (COPPER)	22C	V	DIRECT	47.92	1	\$ 48	0.3500		\$ 137		
13	BURIED CABLE (COPPER)	45C	V	DIRECT	21.51	1	\$ 22	0.3500		\$ 61		
14	UNDERGROUND (CU) CA.	5C	V	DIRECT	29.10	1	\$ 29	0.3500		\$ 83		
15	CO EQPT - P GAIN TERM	257C	F	DIRECT				0.7000				
16	CO EQPT - P GAIN CHAN	257C	V	DIRECT				0.7000				
17	CO EQPT - FO MUX TERM	857C	F	DIRECT				1.0000				
18	CO EQPT - FO MUX CHAN	857C	F	DIRECT				1.0000				
19	CO EQPT - ANALOG SW	77C	V	DIRECT				1.0000				
20	CO EQPT - DIGITAL SW	377C	V	DIRECT				1.0000				
21	AERIAL CABLE (FIBER)	822C	F	DIRECT				0.0000				
22	BURIED CABLE (FIBER)	845C	F	DIRECT				0.0000				
23	UNDERGROUND (FO) CA.	85C	F	DIRECT				0.0000				
24	CONNECTORS	57C	V	DIRECT				1.0000				
25	MISC. COM EQP & PWR	57C	V	SHARED				1.0000				
26	POLE LINE	1C	F	DIRECT	34.64	1	\$ 35	1.0000		\$ 35		
27	CONDUIT	4C	F	DIRECT	42.95	1	\$ 43	1.0000		\$ 43		
28												
29												
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32												
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35												
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46												
47												
48												
49	FOOTNOTES											
50	NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.											
51	NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.											
52	AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;											
53	CO EQPT - ESS = CONNECTORS + MISC. CP&E.											
54												
55												

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C:\123R24\LCAT\CALC\DIST
DIST PLNT - WORKSHEET A
Sheet 3 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT / NON-DLC / NON-COLLECT
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:43

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 137	0.4033		\$ 55.22		\$ 4.60
BURIED CABLE (COPPER)	45C	1.0000		\$ 61	0.3467		\$ 21.30		\$ 1.78
UNDERGROUND (CU) CA.	5C	1.0000		\$ 83	0.3663		\$ 30.46		\$ 2.54
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 35	0.3807				\$ 1.10
CONDUIT	4C	1.0000		\$ 43	0.2521				\$ 0.90
TOTALS				\$ 359			\$ 131.00		\$ 10.92
				\$ 359			\$ 131.00		\$ 10.92

distshrinv distshrinv

\$ 0 \$ 359 \$ 0.00 \$ 131.00 \$ 0.00 \$ 10.92
distmvsy distmvsy distmvsy distmvsy distmvsy distmvsy

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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CA123R24\LCATCALC\DIST
DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Bellcore (R)

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OH O

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

28-Jan-97

1

11:43

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PL) =

from invest. :
0.2530

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) =

\$ 0.00

FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAID GAIN INVESTMENT AND MONTHLY COSTS

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C:\123R24\LCATCALC.DIST
DIST_PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

Bellcore

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 28-Jan-97

TIME: 11:43

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT		CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]			SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED						1.0000		
BUILDING	10C	F	SHARED						1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00		1		\$ 75	1.0000		\$ 75
INTRABLDG CABLE	52C	V	DIRECT	0.00					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00					0.3500		
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00					0.3500		
UNDERGROUND (CU) CA.	5C	V	DIRECT						0.3500		
CO EQPT - P GAIN TERM	257C	F	DIRECT						0.7000		
CO EQPT - P GAIN CHAN	257C	V	DIRECT						0.7000		
CO EQPT - FO MUX TERM	857C	F	DIRECT						1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT						1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT						1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT						1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT						0.0000		
BURIED CABLE (FIBER)	845C	F	DIRECT						0.0000		
UNDERGROUND (FO) CA.	85C	F	DIRECT						0.0000		
CONNECTORS	57C	V	DIRECT						1.0000		
MISC. COM EQP & PWR	57C	V	SHARED						1.0000		
POLE LINE	1C	F	DIRECT	0.00					1.0000		
CONDUIT	4C	F	DIRECT						1.0000		

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PROVIDED TO BUC

\$ 0 \$ 75
\$ 75
bottom

FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;

CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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CA123R24\LCAT\CALC\DIST
DIST_PLNT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Belcore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:43

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.3881				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2986				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3881				
CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75			\$ 29.42		\$ 2.45

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PROVIDED TO PUC

botshrinv botdirinv botinvsy botann botmrc

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Belcore (A)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 28-Jan-97

TIME: 11:44

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE/PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) =

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =

0.0000
0.0000
0.2530
0.00

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PROVIDED TO PUBLIC

FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Belcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO										Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 28-Jan-97 TIME: 11:44	
FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION			
					SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000	\$ 75		
INTRASLDG CABLE	52C	V	DIRECT	0.00				0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500			
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED					1.0000			
POLE LINE	1C	F	DIRECT	0.00				1.0000			
CONDUIT	4C	F	DIRECT					1.0000			

FOOTNOTES
 NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.
 NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.
 AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;
 CO EQPT - ESS = CONNECTORS + MISC. CP&E.

\$ 0 \$ 75
 \$ 75
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DIST_PLNT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Release: 1.0.4
LCAT
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:44

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS				\$ 75		\$ 29.42		\$ 0.00	\$ 2.45

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 \$ 0 \$ 75

 bctinvsv bctinvsv

bctshrinv bctshrinv

 \$ 0.00 \$ 29.42

 bctshrinv bctshrinv

bctshrinv bctshrinv

 \$ 0.00 \$ 2.45

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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LOOP COST ANALYSIS TOOL				Belcore [®]	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
DIST PLNT - REPORT 14A				Issue Date: 8/31/95	
Sheet 1 of 3				STUDY YR: 1998	
COMPANY: CINCINNATI BELL TEL.				TEST CASE: 1	
CITY / AREA: CINCINNATI				RUN DATE: 28-Jan-97	
STATE / PROV: OHIO				TIME: 11:44	
FACILITY TYPE: COPPER CABLE					
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC/NON-COLLOC)					
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE					
logic-14a 1998 UNIT MONTHLY RECURRING COST BY ACCOUNT					
	PLANT	BAND	MIX		(See Note)
	ACCT	AVG.	1.0000		TOTAL
	CODE	LGTH.	15677		AVG. WEIGHTED
	SEG. LGTH.		2046.0		INVESTMENT
					2046
SHARED RESOURCES					
7	LAND	20C			\$ 0.00
8	BUILDING	10C			\$ 0.00
9	BLDG ENTRANCE CABLE	12C			\$ 0.00
10	INTRABLDG CABLE	52C			\$ 0.00
11	AERIAL CABLE (COPPER)	22C			\$ 0.00
12	BURIED CABLE (COPPER)	45C			\$ 0.00
13	UNDERGROUND (CU) CA.	5C			\$ 0.00
14	CO EQPT - P GAIN TERM	257C			\$ 0.00
15	CO EQPT - P GAIN CHAN	257C			\$ 0.00
16	CO EQPT - FO MUX TERM	857C			\$ 0.00
17	CO EQPT - FO MUX CHAN	857C			\$ 0.00
18	CO EQPT - ANALOG SW	77C			\$ 0.00
19	CO EQPT - DIGITAL SW	377C			\$ 0.00
20	AERIAL CABLE (FIBER)	822C			\$ 0.00
21	BURIED CABLE (FIBER)	845C			\$ 0.00
22	UNDERGROUND (FO) CA.	85C			\$ 0.00
23	CONNECTORS	57C			\$ 0.00
24	MISC. COM EQP & PWR	57C			\$ 0.00
25	POLE LINE	1C			\$ 0.00
26	CONDUIT	4C			\$ 0.00
DIRECT RESOURCES					
27	LAND	20C			\$ 0.00
28	BUILDING	10C			\$ 0.00
29	BLDG ENTRANCE CABLE	12C			\$ 0.00
30	INTRABLDG CABLE	52C			\$ 0.00
31	AERIAL CABLE (COPPER)	22C	\$ 4.60		\$ 4.60
32	BURIED CABLE (COPPER)	45C	\$ 1.78		\$ 1.78
33	UNDERGROUND (CU) CA.	5C	\$ 2.54		\$ 2.54
34	CO EQPT - P GAIN TERM	257C			\$ 0.00
35	CO EQPT - P GAIN CHAN	257C			\$ 0.00
36	CO EQPT - FO MUX TERM	857C			\$ 0.00
37	CO EQPT - FO MUX CHAN	857C			\$ 0.00
38	CO EQPT - ANALOG SW	77C			\$ 0.00
39	CO EQPT - DIGITAL SW	377C			\$ 0.00
40	AERIAL CABLE (FIBER)	822C			\$ 0.00
41	BURIED CABLE (FIBER)	845C			\$ 0.00
42	UNDERGROUND (FO) CA.	85C			\$ 0.00
43	CONNECTORS	57C			\$ 0.00
44	MISC. COM EQP & PWR	57C			\$ 0.00
45	POLE LINE	1C	\$ 1.10		\$ 1.10
46	CONDUIT	4C	\$ 0.90		\$ 0.90
47	SPAN SUMMARY		\$ 10.92	\$ 0.00	\$ 0.00
48	AVG. WTD. SPAN SUMMARY		\$ 10.92	\$ 0.00	\$ 0.00
49	NOTE:		{sum(INV _{ACCT} BAND * MIX _{BAND})}		\$ 10.92

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DIST PLNT - REPORT 14B			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT	
Sheet 1 of 1			CIRCUIT SEGMENT : SERVICE ACCESS		Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL			SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		STUDY YR: 1996	
CITY / AREA: CINCINNATI					TEST CASE: 1	
STATE / PROV: OHIO					RUN DATE: 28-Jan-97	
					TIME: 11:44	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						
ALL						
PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.				
SHARED RESOURCES						
LAND	20C					
BUILDING	10C					
BLDG ENTRANCE CABLE	12C					
INTRABLDG CABLE	52C					
AERIAL CABLE (COPPER)	22C					
BURIED CABLE (COPPER)	45C					
UNDERGROUND (CU) CA.	5C					
CO EQPT - P GAIN TERM	257C					
CO EQPT - P GAIN CHAN	257C					
CO EQPT - FO MUX TERM	857C					
CO EQPT - FO MUX CHAN	857C					
CO EQPT - ANALOG SW	77C					
CO EQPT - DIGITAL SW	377C					
AERIAL CABLE (FIBER)	822C					
BURIED CABLE (FIBER)	845C					
UNDERGROUND (FO) CA.	85C					
CONNECTORS	57C					
MISC. COM EQP & PWR	57C					
POLE LINE	1C					
CONDUIT	4C					
DIRECT RESOURCES						
LAND	20C					
BUILDING	10C					
BLDG ENTRANCE CABLE	12C	2.45				
INTRABLDG CABLE	52C					
AERIAL CABLE (COPPER)	22C					
BURIED CABLE (COPPER)	45C					
UNDERGROUND (CU) CA.	5C					
CO EQPT - P GAIN TERM	257C					
CO EQPT - P GAIN CHAN	257C					
CO EQPT - FO MUX TERM	857C					
CO EQPT - FO MUX CHAN	857C					
CO EQPT - ANALOG SW	77C					
CO EQPT - DIGITAL SW	377C					
AERIAL CABLE (FIBER)	822C					
BURIED CABLE (FIBER)	845C					
UNDERGROUND (FO) CA.	85C					
CONNECTORS	57C					
MISC. COM EQP & PWR	57C					
POLE LINE	1C					
CONDUIT	4C					
SPAN TOTAL						

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RUN - SUB PRI

LAST UPDATE

28-Jan-97

11:27

LOOP COST ANALYSIS TOOL

Bellcore^(r)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 1200 FEET - INFI

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	# BANDS
SVC LEVEL	NARBAND	# CKTS
CST METH	LN INCR	LN LEVEL
		DANN COST

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LOOP COST ANALYSIS TOOL										Bellcore®	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-P: MARY										TEST CASE: 1	
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE										RUN DATE: 28-Jan-97	
										TIME: 11:44	
SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 -- RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 -- MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]		
300	AERIAL	0.120000	36.00	0.012100	0.44		0.00	0.00			
MELDED GAUGE/S/ COPPER	BURIED	0.000000	0.00	0.016600	0.00		0.00	0.00			
CABLE	UNDERGRND	0.880000	264.00	0.010900	2.88		0.00	0.00			
CHECK =		1.000000									
23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS 24 INVESTMENT PER CIRCUIT TERMINATION 25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00 26 inv / unit lctn: inv rtn fctr: 0.000000 0.253000 27 POLE LINE FACTOR = \$ 0.18 28 POLE LINE INVESTMENT = 29 (UTIL AERIAL INVEST x PLF) 30 UG CONDUIT FACTOR = 0.000000 0.516500 31 CONDUIT INVESTMENT = \$ 2.48 32 (UTIL UNDGRND INVEST x UCf) 33 MISC. COMMON EQPT. & POWER FACTOR = 0.123000 34 MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00 35 LAND FACTOR = 0.000000 36 LAND NVST (CO CONN + MCE&P x FACTOR) = \$ 0.00 37 BUILDING FACTOR = 0.131600 38 BLDG NVST (CO CONN + MCE&P x FACTOR) = \$ 0.00 39 PERCENT OF CO CONN AT DIGITAL SWITCHES 100.0000 40 PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000 41 42 43 44 45 46 47 FOOTNOTES 48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING. 49 NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB) 50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE. 51 NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6). 52 53 54 55											

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SUB PRI - WORKSHEET
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Bellcore
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 11:44

PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.44	1		\$0	0.6000		\$1
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	2.88	1		\$3	0.6000		\$5
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	0.18	1		\$0	1.0000		\$0
CONDUIT	4C	F	DIRECT	2.48	1		\$0	1.0000		\$2
TOTALS										\$8

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FOOTNOTES
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

Bellcore
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE:
RUN DATE: 28-Jan-97
TIME: 11:44

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

PLANT ITEM	PLANT AOCCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			\$ 1 0.4033		\$ 0.29		\$ 0.02
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			\$ 5 0.3663		\$ 1.76		\$ 0.15
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			\$ 0 0.3807		\$ 0.07		\$ 0.01
CONDUIT	4C	1.0000			\$ 2 0.2521		\$ 0.21		\$ 0.05
SUBTOTALS			\$ 0	\$ 8		\$ 0.00	\$ 2.74	\$ 0.00	\$ 0.23
TOTALS				\$ 8			\$ 2.74		\$ 0.23
			culpmv			culpmc			

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCAT\CALC\GUTCH		LOOP COST ANALYSIS TOOL				Belcore [®]	
SUB PRI - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release : 1.0.4	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL				Issue Date : 7/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT : SUB-PRIMARY PLANT				STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE				TEST CASE: 1	
						RUN DATE: 28-Jan-97	
						TIME: 11:44	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
						TOTAL	
						AVG. WEIGHTED	
						300	
PLANT ITEM		PLANT	MIX	ACCT	AVG.	LGTH	
		CODE	LGTH				
		SEQ LGTH					
SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
27	LAND	20C					\$ 0.00
28	BUILDING	10C					\$ 0.00
29	BLDG ENTRANCE CABLE	12C					\$ 0.00
30	INTRABLDG CABLE	52C					\$ 0.00
31	AERIAL CABLE (COPPER)	22C				\$ 0.02	\$ 0.02
32	BURIED CABLE (COPPER)	45C					\$ 0.00
33	UNDERGROUND (CU) CA.	5C				\$ 0.15	\$ 0.15
34	CO EQPT - P GAIN TERM	257C					\$ 0.00
35	CO EQPT - P GAIN CHAN	257C					\$ 0.00
36	CO EQPT - FO MUX TERM	857C					\$ 0.00
37	CO EQPT - FO MUX CHAN	857C					\$ 0.00
38	CO EQPT - ANALOG SW	77C					\$ 0.00
39	CO EQPT - DIGITAL SW	377C					\$ 0.00
40	AERIAL CABLE (FIBER)	822C					\$ 0.00
41	BURIED CABLE (FIBER)	845C					\$ 0.00
42	UNDERGROUND (FO) CA.	85C					\$ 0.00
43	CONNECTORS	57C					\$ 0.00
44	MISC. COM EQP & PWR	57C					\$ 0.00
45	POLE LINE	1C	0.0			\$ 0.01	\$ 0.01
46	CONDUIT	4C	0.0			\$ 0.05	\$ 0.05
47	SPAN SUMMARY			\$ 0.23	\$ 0.00	\$ 0.00	\$ 0.00
48	AVG. WTD. SPAN SUMMARY			\$ 0.23	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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C:\123R24\LCATCALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE
28-Jan-97
11:28

LOOP COST ANALYSIS TOOL

BellcoreTM
LCAT
Release: 1.0.4
Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 12001 FEET - INFINITY INTRASTA1

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARROW	#CKTS
CST METH	UN INCH	INV LEVEL
		ANN COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1998	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: 1 C										DATE: 28-Jan-97	
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE										TIME: 11:45 AM	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE: OHIO 15677 cur ipgth 300 cursidr-igh f = 0.125 pgrfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4) (NOTE 5) CABLE INVESTMENT PER CHAN [E=C*D] WEIGHTED TERMINAL INVESTMENT [UI*DTC] AIR DRYER INVESTMENT PER PAIR [E*fact] DROP WIRE ADJUSTMENT PER PAIR [E*fact] DROP WIRE INVESTMENT PER PAIR [UI*DTC]											
SEGMENT LENGTH IN FEET [A] TYPE OF CABLE PLANT [B] RELATIVE MIX OF TYPE OF CA. PLANT [C=A*B*F] EFFECTIVE LENGTH BY TYPE INVEST. PER UNIT FOOT [D]											
13331 AERIAL 0.120000 199.97 0.024200 \$ 4.84 \$ 0.00											
CO TO RT LINK ON BURIED 0.000000 0.00 0.033200 \$ 0.00 \$ 0.00											
COPPER CABLE DLC 24.00 GA. FACILITIES UNDERGRND 0.880000 1466.41 0.021800 \$ 31.97 \$ 0.00											
1:000000											
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST./LOAD FACTORS TO AERIAL PFI NA 0.0000 ADJUST./LOAD FACTORS TO BURIED PFI NA 0.0000 ADJUST./LOAD FACTORS TO UGD PFI NA 0.0000											
EQUIPMENT INVESTMENT LOADINGS INVST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127 MCE&P INVST. (CU REMMUX x MCEP) = \$ 38.58 MCE&P INVST. (CDLCMUX x MCEP) = \$ 23.18 MCE&P INVST. (CO CONN x MCEP) = \$ 0.00											
OTHER INVESTMENT LAND FACTOR FOR DLC (LAND rem) = 0.0058 LAND FACTOR FOR DLC (LAND c.o.) = 0.0058 LAND INVST. (CU COMUX + MCEP) x LAND = \$ 3.41 LAND INVST. ((CO CONN + MCEP) x LAND) = \$ 0.00 BUILDING FACTOR FOR DLC (BLDG rem) = 0.1316 BUILDING FACTOR FOR DLC (BLDG c.o.) = 0.1316 BLDG INVST. (CDLCMUX + MCEP) x BLDG = \$ 80.24 BLDG INVST. ((CO CONN + MCEP) x BLDG) = \$ 0.00											
CONDUIT INVEST. FOR DLC DEV FACILITIES = conpgnvt \$ 0.00 OTHER INVESTMENT inv / unit lgth : inv rtn fctr : POLE LINE FACTOR (PL) = 0.0000 0.2530 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) = \$ 2.04 UGD CONDUIT FACTOR (UCF) = 0.0000 0.5166 CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCF) = \$ 27.52											
LOOP TOPOLOGY: STAR AVERAGE NUMBER OF HUBS ADDITIONAL LENGTH OF RING REQUIRED MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 1.0000 MIX OF INTEGRATED DIGITAL INTFC 0.0000											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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CM123R24\LCATCALC\CUPRGN CDLC PLANT - WORKSHEET 1 Sheet 2 of 3		LOOP COST ANALYSIS TOOL ACCOUNT INVESTMENT WORKSHEET CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY FACILITY TYPE: COPPER DIG LOOP CXX CIRCUIT DESIGN: T1C SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		Bellcore LCAT Release: 1.0.4 Issue Date: 8/31/95 STUDY YR: 1998 TEST CASE: 1 DATE: 28-Jan-97 TIME: 11:45 AM	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI					

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	3.41	1	\$ 3		1.0000	\$ 3	
BUILDING	10C	F	SHARED	80.37	1	\$ 80		1.0000	\$ 80	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	4.84	1		\$ 5	0.6000		\$ 8
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	31.97	1		\$ 32	0.6000		\$ 53
CO EQPT - P GAIN TERM	257C	F	DIRECT	166.80	1		\$ 167	0.7000		\$ 238
CO EQPT - P GAIN CHAN	257C	V	DIRECT	419.77	1		\$ 420	0.7000		\$ 600
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00				1.0000		
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					1.0000		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	23.18	1	\$ 23		0.6000		\$ 2
POLE LINE	1C	F	DIRECT	2.04	1			1.0000		\$ 2
CONDUIT	4C	F	DIRECT	27.52	1			0.6000		\$ 28
TOTALS									\$ 107	\$ 929
										\$ 1,036

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FOOTNOTES

- NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
 NOTE 2: CO EQPT - CKT PG TERM = PG EQ INV TERM + MC&P INV
 CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV
 CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

CAT123R24/LCATCALC100.PRG		LOOP COST ANALYSIS TOOL								Belcore	
CDLG PLANT - WORKSHEET 1		PROSPECTIVE AND ANNUAL COSTS WORKSHEET								LCAT Release: 1.0.4	
Sheet 3 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET								Issue Date: 5/31/95	
COMPANY: CINCINNATI BELL TEL		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY								STUDY YR: 1995	
CITY / AREA: OHIO		FACILITY TYPE: COPPER DIG LOOP CXR								TEST CASE: 1	
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: C								DATE: 28-Jan-97	
		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE								TIME: 11:45 AM	
PLANT ITEM	PLANT ACCT CODE	1995 TO 1996 TPI [L]	1995 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1995 UNIT ANNUAL COSTS BY ACCOUNT		1995 UNIT MONTHLY RECURRING COSTS BY ACCOUNT			
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]		
LAND	20C	1.0000	\$ 3		0.2322	\$ 0.79		\$ 0.07			
BUILDING	10C	1.0000	\$ 80		0.2937	\$ 23.61		\$ 1.97			
BLDG ENTRANCE CABLE	12C	1.0000			0.3922						
INTRABLDG CABLE	52C	1.0000			0.3922						
AERIAL CABLE (COPPER)	22C	1.0000		\$ 8	0.4033		\$ 3.25		\$ 0.27		
BURIED CABLE (COPPER)	45C	1.0000			0.3467						
UNDERGROUND (CU) CA.	5C	1.0000		\$ 53	0.3663		\$ 19.52		\$ 1.63		
CO EQPT - P GAIN TERM	257C	1.0000		\$ 238	0.3881		\$ 92.48		\$ 7.71		
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 600	0.3881		\$ 232.73		\$ 19.39		
CO EQPT - FO MUX TERM	857C	1.0000			0.3881						
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881						
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000						
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458						
AERIAL CABLE (FIBER)	822C	1.0000			0.2983						
BURIED CABLE (FIBER)	845C	1.0000			0.2724						
UNDERGROUND (FO) CA.	85C	1.0000			0.2689						
CONNECTORS	57C	1.0000			0.3881						
MISC. COM EQP & PWR	57C	1.0000	\$ 23		0.3881	\$ 8.99		\$ 0.75	\$ 0.06		
POLE LINE	1C	1.0000		\$ 2	0.3807		\$ 0.78		\$ 0.06		
CONDUIT	4C	1.0000		\$ 28	0.2521				\$ 0.58		
TOTALS			\$ 107	\$ 929		\$ 324.09		\$ 27.78	\$ 29.84		
				\$ 1,036		\$ 324.09			\$ 32.42		
				FEED1SY		FEEDTANN			FEEDTMRC		

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

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COLC_PLANT - REPORT 14.1
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT: PRIMARY FEEDER SEGMENT
CITY / AREA: CINCINNATI CIRCUIT DESIGN: COPPER DIG LOOP C&R
STATE / PROV: OHIO SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
DATE: 28-Jan-97
TIME: 11:46 AM

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT	BAND MIX AVG	LGTH	SEGLGTH	1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	(SEE NOTE) TOTAL AVG. WEIGHTED INVESTMENT
					1.0000	
					15677	
					13331	13331
SHARED RESOURCES						
LAND	20C				\$ 0.07	\$ 0.07
BUILDING	10C				\$ 1.97	\$ 1.97
BLDG ENTRANCE CABLE	12C					\$ 0.00
INTRABLDG CABLE	52C					\$ 0.00
AERIAL CABLE (COPPER)	22C					\$ 0.00
BURIED CABLE (COPPER)	45C					\$ 0.00
UNDERGROUND (CU) CA.	5C					\$ 0.00
CO EQPT - P GAIN TERM	257C					\$ 0.00
CO EQPT - P GAIN CHAN	257C					\$ 0.00
CO EQPT - FO MUX TERM	857C					\$ 0.00
CO EQPT - FO MUX CHAN	857C					\$ 0.00
CO EQPT - ANALOG SW	77C					\$ 0.00
CO EQPT - DIGITAL SW	377C					\$ 0.00
AERIAL CABLE (FIBER)	822C					\$ 0.00
BURIED CABLE (FIBER)	845C					\$ 0.00
UNDERGROUND (FO) CA.	85C					\$ 0.00
CONNECTORS	57C					\$ 0.00
MISC. COM EQP & PWR	57C				\$ 0.75	\$ 0.75
POLE LINE	1C					\$ 0.00
CONDUIT	4C					\$ 0.00
DIRECT RESOURCES						
LAND	20C					\$ 0.00
BUILDING	10C					\$ 0.00
BLDG ENTRANCE CABLE	12C					\$ 0.00
INTRABLDG CABLE	52C					\$ 0.00
AERIAL CABLE (COPPER)	22C				\$ 0.27	\$ 0.27
BURIED CABLE (COPPER)	45C					\$ 0.00
UNDERGROUND (CU) CA.	5C				\$ 1.63	\$ 1.63
CO EQPT - P GAIN TERM	257C				\$ 7.71	\$ 7.71
CO EQPT - P GAIN CHAN	257C				\$ 19.39	\$ 19.39
CO EQPT - FO MUX TERM	857C					\$ 0.00
CO EQPT - FO MUX CHAN	857C					\$ 0.00
CO EQPT - ANALOG SW	77C					\$ 0.00
CO EQPT - DIGITAL SW	377C					\$ 0.00
AERIAL CABLE (FIBER)	822C					\$ 0.00
BURIED CABLE (FIBER)	845C					\$ 0.00
UNDERGROUND (FO) CA.	85C					\$ 0.00
CONNECTORS	57C					\$ 0.00
MISC. COM EQP & PWR	57C					\$ 0.00
POLE LINE	1C				\$ 0.08	\$ 0.08
CONDUIT	4C				\$ 0.58	\$ 0.58
SPAN SUMMARY					32.42	0.00
AVG. WTD. SPAN SUMMARY					32.42	0.00
NOTE: [sum(INV _{ACCT} * MIX _{WTD})]						

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE

28-Jan-97

11:30

LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 12001 FEET - INFINITY

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI		
BASIS	NETWORK	TEST CASE 1
FR / DS	FLAT RATE	#BANDS 0
SVC LEVEL	NARBAND	#CKTS
CST METH	UN INCR	INV LEVEL ANN COST

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LAND FACTOR FOR DLC EOP (LANDfc.o.) =
 LAND FACTOR FOR MUX EOP (LANDfc.o.)
 LAND FACTOR FOR BOTH (LANDfc.o.)
 ST. (DLC + MUX + MCEP) x LANDfc.o. =
 ST. (MUX + DLC + MCEP) x LANDfc.o.
 BUILDING FACTOR FOR DLC EOP (BLDGfc.o.) =
 BUILDING FACTOR FOR MUX EOP (BLDGfc.o.)
 BUILDING FACTOR FOR BOTH (BLDGfc.o.) =
 BUILDING FACTOR FOR DLC EOP (BLDGfc.o.)
 BUILDING FACTOR FOR MUX EOP (BLDGfc.o.)
 BUILDING FACTOR FOR BOTH (BLDGfc.o.) =
 ST. (DLC + MUX + MCEP) x BLDGfc.o. =
 ST. (MUX + DLC + MCEP) x BLDGfc.o. =

LOOP COST ANALYSIS TOOL										Bellcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
CIRCUIT DESIGN: 3 FOMUX TO HLB / REM.										STUDY YR: 1996	
SERVICE CLASS: BAND 1 - PUBLSERVICE LEVEL: NARBAND										TEST CASE: 1	
										LAST RUN: 25-Jan-97	
										TIME: 11:47	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	
LAND	20C	F	SHARED	3.91	1	\$ 4		1.0000	\$ 4		
BUILDING	10C	F	SHARED	91.78	1	\$ 92		1.0000	\$ 92		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000			
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
CO EQPT - LOW CAP TERM	257C	F	DIRECT	128.22	1		\$ 128	0.7000		\$ 183	
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	419.77	1		\$ 420	0.7000		\$ 600	
CO EQPT - HI CAP TERM	857C	F	DIRECT	47.82	1		\$ 48	1.0000		\$ 48	
CO EQPT - HI CAP CHAN	857C	F	DIRECT	73.98	1		\$ 74	1.0000		\$ 74	
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT	0.34	1		\$ 0	0.3300		\$ 1	
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300		\$ 3	
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.93	1			1.0000			
CONNECTORS	57C	V	DIRECT	0.00				1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	27.61	1	\$ 28		1.0000		\$ 0	
POLE LINE	1C	F	DIRECT	0.20	1			1.0000		\$ 1	
CONDUIT	4C	F	DIRECT	1.48	1			1.0000			
TOTALS										\$ 123	\$ 910
											\$ 1,033
											feed3iy

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&P INV.
NOTE 3: ESS CO EQPT = C.O. CONN + MCE&P INV
NOTE 3: CABLE INVESTMENT IS THE SUM OF THE CABLE INV [H] + DRYER INV [J] + DROP WIRE ADJUST [K]

LOOP COST ANALYSIS TOOL										Balcore TM	
ANNUAL COSTS WORKSHEET										LCAT Ref: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 1 - PUE SERVICE LEVEL: NABAND										LAST RUN: 28-Jan-97	
										TIME: 11:47	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT LOOP INVESTMENT BY ACCOUNT 1996 UNIT ANNUAL COSTS BY ACCOUNT 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT	1996 UNIT ANNUAL COST BY ACCOUNT	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT						
			SHARED RESOURCES fo3sccaset	DIRECT RESOURCES fo3dxcaset	ANNUAL COST FACTOR acfstart	SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sccaset	DIRECT RESOURCES fo3dxcaset		
[PREVIOUS SHEET SUMMARY]			[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]		
LAND	20C	1.0000	\$ 4		0.2322	\$ 0.91		\$ 0.08			
BUILDING	10C	1.0000	\$ 92		0.2937	\$ 26.96		\$ 2.25			
BLDG ENTRANCE CABLE	12C	1.0000			0.3922						
INTRABLDG CABLE	52C	1.0000			0.3922						
AERIAL CABLE (COPPER)	22C	1.0000			0.4033						
BURIED CABLE (COPPER)	45C	1.0000			0.3467						
UNDERGROUND (CU) CA.	5C	1.0000			0.3663						
CO EQPT - LOW CAP TERM	257C	1.0000		\$ 183	0.3881		\$ 71.09		\$ 5.92		
CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 600	0.3881		\$ 232.73		\$ 19.39		
CO EQPT - HI CAP TERM	857C	1.0000		\$ 48	0.3881		\$ 18.56		\$ 1.55		
CO EQPT - HI CAP CHAN	857C	1.0000		\$ 74	0.3881		\$ 28.71		\$ 2.39		
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3458						
AERIAL CABLE (FIBER)	822C	1.0000		\$ 1	0.2983		\$ 0.31		\$ 0.03		
BURIED CABLE (FIBER)	845C	1.0000			0.2724						
UNDERGROUND (FO) CA.	85C	1.0000		\$ 3	0.2689		\$ 0.7		\$ 0.06		
CONNECTORS	57C	1.0000			0.3881						
MISC. COM EQP & PWR	57C	1.0000	\$ 28		0.3881	\$ 10.72					
POLE LINE	1C	1.0000		\$ 0	0.3607		\$ 0.08		\$ 0.01		
CONDUIT	4C	1.0000		\$ 1	0.2521		\$ 0.2		\$ 0.03		
TOTALS			\$ 123	\$ 910		\$ 38.57	\$ 352.40	\$ 3.21	\$ 29.38		
				\$ 1,033			\$ 1,019		\$ 32.60		
				feed3sy			feed3mnc				

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION, HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

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C:\123R24\LCAT\CALC\FOPRGN.WK1		LOOP COST ANALYSIS TOOL				Bellcore	
FO MUX - REPORT 14.3		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
Sheet 1 of 1		FOR PRIMARY FEEDER PLANT				ISSUE DATE: 7/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: FIBER IN THE LOOP				STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLK SERVICE LEVEL: NARBAND				LAST RUN: 28-Jan-97	
						TIME: 11:47	
data - 14e3		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		0				TOTAL	
PLANT MIX		1.0000				AVG WEIGHTED	
ACCT AVG.						INVESTMENT	
CODE LGTH		15677					
SEGLGTH		13331				13331	
SHARED RESOURCES							
LAND	20C						\$ 0.08
BUILDING	10C						\$ 2.25
BLDG ENTRANCE CABLE	12C						\$ 0.00
INTRABLDG CABLE	52C						\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 0.00
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C						\$ 0.00
CO EQPT - LOW CAP TERM	257C						\$ 0.00
CO EQPT - LOW CAP CHAN	257C						\$ 0.00
CO EQPT - HI CAP TERM	857C						\$ 0.00
CO EQPT - HI CAP CHAN	857C						\$ 0.00
CO EQPT - ANALOG SW	77C						\$ 0.00
CO EQPT - DIGITAL SW	377C						\$ 0.00
AERIAL CABLE (FIBER)	822C						\$ 0.00
BURIED CABLE (FIBER)	845C						\$ 0.00
UNDERGROUND (FO) CA.	85C						\$ 0.00
CONNECTORS	57C						\$ 0.00
MISC. COM EQP & PWR	57C						\$ 0.89
POLE LINE	1C						\$ 0.00
CONDUIT	4C						\$ 0.00
DIRECT RESOURCES							
LAND	20C						\$ 0.00
BUILDING	10C						\$ 0.00
BLDG ENTRANCE CABLE	12C						\$ 0.00
INTRABLDG CABLE	52C						\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 0.00
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C						\$ 0.00
CO EQPT - LOW CAP TERM	257C						\$ 5.92
CO EQPT - LOW CAP CHAN	257C						\$ 19.39
CO EQPT - HI CAP TERM	857C						\$ 1.55
CO EQPT - HI CAP CHAN	857C						\$ 2.39
CO EQPT - ANALOG SW	77C						\$ 0.00
CO EQPT - DIGITAL SW	377C						\$ 0.00
AERIAL CABLE (FIBER)	822C						\$ 0.03
BURIED CABLE (FIBER)	845C						\$ 0.00
UNDERGROUND (FO) CA.	85C						\$ 0.06
CONNECTORS	57C						\$ 0.00
MISC. COM EQP & PWR	57C						\$ 0.00
POLE LINE	1C						\$ 0.01
CONDUIT	4C						\$ 0.03
SPAN SUMMARY		32.60	0.00	0.00	0.00	0.00	\$ 32.60
AVG. WTD. SPAN SUMMARY		32.60	0.00	0.00	0.00	0.00	
NOTE: [sum((INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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LOOP COST ANALYSIS TOOL

Bellcore^(R)TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 29-Oct-96

TIME: 13:16

COMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND		WIDEBAND		BROADBAND	
		PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX
LAND	LAND	20C	F	SHARED	F	SHARED	F
BUILDING	BLDG	10C	F	SHARED	F	SHARED	F
BLDG ENTRANCE CABLE	BEC	12C	V	DIRECT	V	DIRECT	V
INTRABLDG CABLE	IBC	52C	V	DIRECT	V	DIRECT	V
AERIAL CABLE (COPPER) ①	ACU	22C	V	DIRECT	V	DIRECT	V
BURIED CABLE (COPPER) ①	BCU	45C	V	DIRECT	V	DIRECT	V
UNDERGROUND (CU) CA. ①	UCU	5C	V	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP TERM	DLCT	257C	F	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP CHAN	DLCC	257C	V	DIRECT	V	DIRECT	V
CO EQPT - HI CAP TERM	MUXT	857C	F	DIRECT	F	DIRECT	F
CO EQPT - HI CAP CHAN	MUXC	857C	F	DIRECT	F	DIRECT	F
CO EQPT - ANALOG SW	ACOE	77C	V	DIRECT	V	DIRECT	V
CO EQPT - DIGITAL SW	DCOE	377C	V	DIRECT	V	DIRECT	V
AERIAL CABLE (FIBER)	AFO	822C	F	DIRECT	F	DIRECT	F
BURIED CABLE (FIBER)	BFO	845C	F	DIRECT	F	DIRECT	F
UNDERGROUND (FO) CA.	UFO	85C	F	DIRECT	F	DIRECT	F
CONNECTORS	CONN	57C	V	DIRECT	V	DIRECT	V
MISC. COM EQP & PWR	MCEP	57C	V	SHARED	V	SHARED	V
POLE LINE	POLE	1C	F	DIRECT	F	DIRECT	F
CONDUIT	COND	4C	F	DIRECT	F	DIRECT	F

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPLIED) FEEDER & DISTRIBUTION
 BY DEFINITION: ITEMS LABELED Fixed OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
 ITEMS LABELED Fixed ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for DISTRIBUTION cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	Any 5 (max) char. code	The User cross-reference code for the cost component or component group. Examples are "field" codes, sub-accounts.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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LOOP COST ANALYSIS TOOL

Bellcore^(R)TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENTCOMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 29-Oct-96
TIME: 13:16

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS					
	NARROWBAND		WIDEBAND		BROADBAND	
	CATEGORY	SENS. RESOURCE	CATEGORY	SENS. RESOURCE	CATEGORY	SENS. RESOURCE
PLANT CODE	INDEX	ASSIGNMENT	INDEX	ASSIGNMENT	INDEX	ASSIGNMENT
20C	F	SHARED	F	SHARED	F	SHARED
10C	F	SHARED	F	SHARED	F	SHARED
22C	V	DIRECT	V	DIRECT	V	DIRECT
45C	V	DIRECT	V	DIRECT	V	DIRECT
5C	V	DIRECT	V	DIRECT	V	DIRECT
257C	F	DIRECT	V	DIRECT	V	DIRECT
257C	V	DIRECT	V	DIRECT	V	DIRECT
857C	F	DIRECT	F	DIRECT	F	DIRECT
857C	F	DIRECT	F	DIRECT	F	DIRECT
77C	V	DIRECT	V	DIRECT	V	DIRECT
377C	V	DIRECT	V	DIRECT	V	DIRECT
822C	F	DIRECT	F	DIRECT	F	DIRECT
845C	F	DIRECT	F	DIRECT	F	DIRECT
85C	F	DIRECT	F	DIRECT	F	DIRECT
57C	V	DIRECT	V	DIRECT	V	DIRECT
57C	V	SHARED	V	SHARED	V	SHARED
1C	F	DIRECT	F	DIRECT	F	DIRECT
4C	F	DIRECT	F	DIRECT	F	DIRECT

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS ONLY
 BY DEFINITION: ITEMS LABELED F(xed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
 ITEMS LABELED F(xed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE REPLACEMENT OR NEW INSTALLATION.

C:\123R24\LCATR040\COSTMETH

HELP SCREEN**Belcore**⁽ⁿ⁾

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for FEEDER cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	(none)	The User nominated cross-reference code for the cost component or component group from the previous screen.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity. F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function. DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****
 ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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C:\123R24\LCATR040\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 28-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				26-Nov-96 01:40 PM	
STUDY NAME		1996 BAND 1 (OHIO ONLY) PUBLIC COIN PHONE 12001 FEET - INFINITY INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 1 - PUBLIC COIN PHON		STUDY BASIS	
				☒ NETWORK	
COMPANY		CINCINNATI BELL TEL		☐ INDIVIDUAL	
STATE / PROVINCE		OHIO		INVESTMENT YEAR	
				1996	
CITY / AREA		CINCINNATI		LOOP CHAR. STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		STUDY YEAR	
		VH HI MED LO		1996	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:				TEST CASE	
		Type Percent Mix:		1	
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			

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C:\123R24\LCATR040\CRITERIA
 INPUT - STUDY SETUP
 Sheet 1 of 2

HELP SCREEN**Belcore**®

LCAT Rel. 1.0.4
 ISSUED: 3/31/95

THIS DISPLAY This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.

STUDY NAME Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.

COMMENTS Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, , <Up>, <Dn>, etc... keys. PRESS THE <Enter> KEY TO STOP INPUTTING DATA.

STUDY BASIS Select with an 'X' either an average NETWORK study or an INDIVIDUAL CASE study.

FACILITY TYPE Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an 'X' to denote inclusion.

CELL DENSITY Select by entering the percent of cell density mix, based upon the scope of the jurisdiction, and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
 ***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****
 PRESS <Enter> KEY TO RETURN TO THE MAIN MENU

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CM123R24\LCATRC43\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)					
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 26-Nov-95 TIME: 01:40 PM					
CONCERNING - <u>SERVICE SPEC.</u> SELECTED QUESTIONS VALID RESPONSE									
		1. Is this Study for a NEW Installation or an ADDITION ?		SET N or A S or P N, W or B 2 or 4					
		2. Is this Study for a SWITCHED or PRIVATE LINE Service ?		<table border="1" style="width: 100%; text-align: center;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> </table>		NEW	SWITCHED	NARBAND	2
NEW									
SWITCHED									
NARBAND									
2									
		3. Is this Study for Narrow, Wide, or Broadband Services							
		4. Is this Study for 2 Wire or 4 Wire Transmission ?							
OFFICE CHAR.		5. What Percent of the C.O. Switch Installations are DIGITAL Switches?		0 → 100 100					
		6. What Percent of Loop Carrier Installations are INTEGRATED DLC's?		0 → 100 0					
		7. What Percent of Loop Carrier Cross-connects are Electronic DCS's?		0 → 100 0					
		8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?		e.g., 12000 12000 Feet					
RESULTS SPEC.		9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ?		For 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 11. 11 12. 12 13. 13 14. 14					
		9a. If Distance Sensitive, what band increment do you want ?		<table border="1" style="width: 100%; text-align: center;"> <tr><td>FLAT RATE</td></tr> <tr><td>COST</td></tr> <tr><td>TOT INCR</td></tr> <tr><td>1</td></tr> </table>		FLAT RATE	COST	TOT INCR	1
FLAT RATE									
COST									
TOT INCR									
1									
		10. How many Cost Bands in this study ?							
		11. Should this Study result in Investment, Cost, or All values ?							
		12. Is this study for Total Incremental or Marginal Costs ?							
		13. How many circuits (loops) in this Study ?							
		14. The study classification is(e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.		<table border="1" style="width: 100%; text-align: center;"> <tr><td>RATES PLAN</td></tr> </table>		RATES PLAN			
RATES PLAN									

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C:\123R24\LCATR040\CRITERIA

HELP SCREENBellcoreTM

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied.
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,
Using **6.** for Switched Services or Using **7.** for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1, 2, 3, or 4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.
Nominally, entering **1** provides a "UNIT" cost and any other value, a "TOTAL" cost

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C:\123R24\LCATR040\DESIGN	LOOP COST ANALYSIS TOOL	Belcore
INPUT - LOOP_DESIGN Sheet 1 / 1	CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR	LCAT Rel :1.0.4 Issued :07/31/95
COMPANY :CINCINNATI BELL TEL	INVESTMENT YEAR: 1996	STUDY YR: 1996
CITY / AREA :CINCINNATI	LOOP STUDY YEAR: 1996	TEST CASE: 1
STATE / PROV :OHIO	SERVICE CLASS:BAND 1 - PUBLIC COIN PHON	LAST UPDATE: 29-Oct-96
		TIME: 13:18

CIRCUIT DESIGN**Study Parameters**

Study Basis: NETWORK STUDY

Service Level: NARBAND

Loop Topology: STAR

**CIRCUIT LAYOUT REQUIREMENTS -
FOR FIBER HUBS & FEEDER EXTENSIONS**

(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES :

Proportion of Fiber Circuits

WITHOUT Fiber Hubs

0.0000

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech.

0.0000

Proportion of links on CDLC / MAR

0.0000

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES :

Proportion of Remote terminals

colocated at Customer Premises

0.0000

**CIRCUIT DESIGN REQUIREMENTS -
SELECTION & DISTRIBUTION:****Note****FOR FIBER DLC DESIGNS:**

Weighting of Design #1

0.0000

Weighting of Design #2

0.0000

Weighting of Design #3

1.0000

Weighting of Design #4

0.0000

Weighting of Design #5

0.0000

Weighting of Design #6

0.0000

0.0000

ChkSum

FOR CORP DLC DESIGNS:

Weighting of Design #1

1.0000

Weighting of Design #2

NA 0.0000

1.0000

ChkSum

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NA* DENOTES THAT THE CIRCUIT DESIGN
PROBABLY DOES NOT APPLY TO THIS
SET OF STUDY PARAMETERS.

C:\123R24\LCATR040\DESIGN

HELP SCREEN

Bellcore

INPUT - LOOP_DESIGN

LCAT Rel :1.0.4

Sheet 1 of 1

Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

Each Loop's circuit layout is broken down into potentially the FEEDER, the DISTRIBUTION, and the DROP segment. The FEEDER segment can have THREE Spans, the PRIMARY and EXTENSION are realtime, but, the SUBFEEDER is a "filler" for spans or distances under PAIR GAIN Deployment and will be employed using engineering rules and network characteristics. The potential Fiber Optic DLC and Copper DLC circuit layouts have been categorized into several generic designs for purposes of narrowing down the complexity of the network contribution. The *DESIGN's* represent unique combinations of layers (COLLOCATION) and the transport media. There is a chart of these *DESIGN's* included in the DATA CATALOG and the METHODOLOGY sections of the User Guide.

COLLOCATIONS

To be defined as the combining of Loop functions at the same location, excluding the need for translation of the transport function (eliminating the OSP and termination equipment). Note that the sum of the probabilities do not have to equal total universe, therefore, the proportions are a function of the total serving universe (total loop network).

**FIBER HUBS &
FEEDER
EXTENSIONS**

These values represent the proportion of each technology used in the layouts which DO NOT have collocated FIBER HUB and REMOTE TERMINAL functions.

WARNING

→ This function must be in place for "RING" topologies as 100% FIBER, therefore, the *DESIGN* choices are limited for RING to *DESIGN's* 1 and 5. All other *DESIGN* are to be avoided.

**SERVICE
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choice will be limited for BROADBAND service levels to those which currently support DS3 Xconn at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR040\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rev: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/96	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996	
STATE/PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 1	
		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 27-Nov-96	
				TIME: 12:48	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
CABLE TYPE MIX (DISTRIBUTION TO CODE) : Proportion of FIBER cable Installations that are		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
		AERIAL	0.1800	0.0000	factors
		BURIED	0.0000	0.0000	factors
		UNDGRD	0.8200	0.0000	factors
INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :					
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y / N)			N	[Required with INDIVIDUAL Mode]	
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	per fiber pair Foot per fiber pair Foot per fiber pair Foot	
		BURIED	\$ 0.2694		
		UNDGRD	\$ 0.1656		
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	\$ 0.0000	per fiber pair Foot per fiber pair Foot per fiber pair Foot
		BURIED	\$ 0.2694	\$ 0.0000	
		UNDGRD	\$ 0.1656	\$ 0.0000	
		(Fiber Hub to Remote Terminal) (Remote Terminal to Service Point)			

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C:\123R24\LCATR040\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 27-Nov-96 TIME: 12:48	
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE					
Cable Sheath Sizes		CAPACITY	Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size		
		INDEX	AERIAL	BURIED	UNDERGROUND
4	Fiber Cable	2 pr	\$	\$	\$
6	Fiber Cable	3 pr	\$	\$	\$
12	Fiber Cable	6 pr	\$	\$	\$
18	Fiber Cable	9 pr	\$	\$	\$
24	Fiber Cable	12 pr	\$	\$	\$
36	Fiber Cable	18 pr	\$	\$	\$
48	Fiber Cable	24 pr	\$	\$	\$
60	Fiber Cable	30 pr	\$	\$	\$
72	Fiber Cable	36 pr	\$	\$	\$
84	Fiber Cable	42 pr	\$	\$	\$
96	Fiber Cable	48 pr	\$	\$	\$
144	Fiber Cable	72 pr	\$	\$	\$
192	Fiber Cable	96 pr	\$	\$	\$
216	Fiber Cable	108 pr	\$	\$	\$

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TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

Bellcore ^(TM)
LCAT Rel: 1.0.4
Issued: 07/31/95

***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\1123R24\LCATR040\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (®)	
TABLE - SPAN_INV SHEET 2 / 4		LOOP FACILITY INPUT COPPER CABLE DATA FOR		LCAT Ref: 1.0.4 Issued: 07/31/05	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 27-Nov-96 TIME: 12:48	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS					
Cable Gauge Mix :		FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :	
The Proportion of	26 GA.	0.1500	0.1500	Update Cable Sheath Prices [Required with INDIVIDUAL Mode]	
Copper Cable that is	24 GA.	0.8500	0.8500	on the FULL SET Input SHEET ? (Y / N) N	
	22 GA.	0.0000	0.0000	If not, Update	
Cable Type Mix, By Gauge :				GUAGE	
The Proportion of	26 GA.	AERIAL	0.1200	0.5900	FEEDER SEGMENT
Copper Cable that is		BURIED	0.0000	0.1600	DISTRIBUTION SEGMENT
		UNDGRND	0.8800	0.2500	
	24 GA.	AERIAL	0.1200	0.5900	
		BURIED	0.0000	0.1600	
		UNDGRND	0.8800	0.2500	
	22 GA.	AERIAL	0.0000	0.0000	
		BURIED	0.0000	0.0000	
		UNDGRND	0.0000	0.0000	
				Average Unit	
				Investment for	
				Copper Cable	
				Installed as	
				26 GA.	AERIAL \$ 0.0921 \$ 0.0397
					BURIED \$ 0.0166 \$ 0.0657
					UNDGRND \$ 0.0109 \$ 0.0569
				24 GA.	AERIAL \$ 0.0123 \$ 0.0397
					BURIED \$ 0.0166 \$ 0.0657
					UNDGRND \$ 0.0109 \$ 0.0569
				22 GA.	AERIAL \$ 0.0000 \$ 0.0000
					BURIED \$ 0.0000 \$ 0.0000
					UNDGRND \$ 0.0000 \$ 0.0000

NOTE : If the DROP WIRE resource investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.

C:\123R24\LCATR04C\FACILITY		LOOP COST ANALYSIS TOOL		Belcore
TABLE = SPAN INV SHEET 2A / 4		LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR		LCAT Ver: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 27-Nov-96 TIME: 12:48

COPPER CABLE INVESTMENT REFERENCE TABLE

Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size

Cable Sheath Sizes	Capacity	Gauge : => INDEX	26 GA.			24 GA.			22 GA.		
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 Copper Cable	20 pr	\$									
50 Copper Cable	25 pr	\$									
80 Copper Cable	40 pr	\$									
100 Copper Cable	50 pr	\$									
140 Copper Cable	70 pr	\$									
200 Copper Cable	100 pr	\$									
400 Copper Cable	200 pr	\$									
600 Copper Cable	300 pr	\$									
800 Copper Cable	400 pr	\$									
1200 Copper Cable	600 pr	\$									
1800 Copper Cable	900 pr	\$									
2400 Copper Cable	1200 pr	\$									
3000 Copper Cable	1500 pr	\$									
3600 Copper Cable	1800 pr	\$									
4200 Copper Cable	2100 pr	\$									
4800 Copper Cable	2400 pr	\$									
5400 Copper Cable	2700 pr	\$									
6000 Copper Cable	3000 pr	\$									
7200 Copper Cable	3600 pr	\$									
8400 Copper Cable	4200 pr	\$									

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TABLE - SPAN_INV
SHEET 2 / 4

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***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG FILES *****

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LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN:KV = WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS WELDING
WORKSHEET ALCAT Rev: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 27-Nov-95
TIME: 12:48COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT
SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper..dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.590000	\$ 0.039700	0.1500	0.088500	\$ 0.005955
BURIED @ 26 GA.	0.160000	\$ 0.065700	0.1500	0.024000	\$ 0.009855
UNDGRND @ 26 GA.	0.250000	\$ 0.056900	0.1500	0.037500	\$ 0.008535
AERIAL @ 24 GA.	0.590000	\$ 0.039700	0.8500	0.501500	\$ 0.033745
BURIED @ 24 GA.	0.160000	\$ 0.065700	0.8500	0.136000	\$ 0.055845
UNDGRND @ 24 GA.	0.250000	\$ 0.056900	0.8500	0.212500	\$ 0.048365
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

--- TABLE 2 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	WELDED GAUGES
CHARACTERISTICS FOR:	[F=sum(D*TYPE)]	
AERIAL	0.590000	
BURIED	0.160000	
UNDERGRND	0.250000	

Check = 1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	WELDED GAUGES
[G=sum(E*TYPE)]	
\$ 0.039700	
\$ 0.065700	
\$ 0.056900	

Check = 1.00

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FOOTNOTES

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C:\123R24\LCATR040\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 27-Nov-96 TIME: 12:48	
		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE			
MELDED CABLE INVESTMENT PER PAIR FOOT					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pft...fdr)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815
BURIED @ 26 GA.	0.000000	\$ 0.016600	0.1500	0.000000	\$ 0.002490
UNDGRND @ 26 GA.	0.880000	\$ 0.010900	0.1500	0.132000	\$ 0.001835
AERIAL @ 24 GA.	0.120000	\$ 0.012100	0.8500	0.102000	\$ 0.010285
BURIED @ 24 GA.	0.000000	\$ 0.016600	0.8500	0.000000	\$ 0.014110
UNDGRND @ 24 GA.	0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.009295
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
Check = 1.00					
TABLE 2		TABLE 4		TABLE 5	
DATA DESC.	CABLE TYPE MIX RANGE NAME MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME MELDED GAUGES
CHARACTERISTICS FOR:	[F=sum(D*Type)]	[G=sum(E*Type)]	[H=sum(F*Type)]	[I=sum(G*Type)]	[J=sum(H*Type)]
AERIAL	0.120000	\$ 0.012100	\$ 0.012100	\$ 0.012100	\$ 0.000000
BURIED	0.000000	\$ 0.016600	\$ 0.016600	\$ 0.016600	\$ 0.000000
UNDERGRND	0.880000	\$ 0.010900	\$ 0.010900	\$ 0.010900	\$ 0.000000
Check = 1.000000		Check = 1.000000		Check = 1.000000	
FOOTNOTES					

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C:\123R24\LCATR040\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)	
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA FOR		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - PUBLIC COIN PHONE		LAST UPDATE: 27-Nov-96 TIME: 12:48	
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS					
FOR DLC SYSTEMS ON COPPER LOOPS					
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :				24
Pair Gain Factor :	(When Investment Utilities or Band Width Mix are NOT Used)				
	The Average Number Of Voice Grade Circuit Equivalents Per System :				96
	The Average Number Of Transmission Pairs Plus Protection Per System :				10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :				2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] :				0.125
NOTE: ① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.					

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