

Confidential Release

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MCI Exhibits

1-48

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C:\123R24\LCAT\CALC\CUTECH
 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: WELDED GAUGE/S/ SUB-PRIMARY

SERVICE CLASS: BAND 2 - RESIDENCE LINE

Bellcore®
 LCAT Release: 1.0.4
 Issue Date: 7/31/95
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 22-Jan-97
 TIME: 14:39

PLANT ITEM	PLANT ACCT CODE	1996 TO 1998 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		\$ 2	0.4033		\$ 0.70		\$ 0.06
BURIED CABLE (COPPER)	45C	1.0000		\$ 0	0.3467		\$ 0.07		\$ 0.01
UNDERGROUND (CU) CA.	5C	1.0000		\$ 4	0.3663		\$ 1.39		\$ 0.12
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		\$ 0.17		\$ 0.01
CONDUIT	4C	1.0000		\$ 2	0.2521		\$ 0.49		\$ 0.04
SUBTOTALS			\$ 0	\$ 8		\$ 0.00	\$ 2.82	\$ 0.00	\$ 0.24
TOTALS				\$ 8			\$ 2.82		\$ 0.24
				culpinvsv			culpec		culpmrc

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\LCAT\CALC\CUTECH		LOOP COST ANALYSIS TOOL				Bellcore (R)		
SUB_PRI - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release : 1.0.4		
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL FACILITY SEGMENT : SUB-PRIMARY PLANT				Issue Date : 7/31/95		
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 2 - RESIDENCE LINE				STUDY YR: 1996		
STATE / PROV: OHIO						TEST CASE: 1		
						RUN DATE: 22-Jan-97		
						TIME: 14:39		
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT								
(SEE NOTE)								
TOTAL								
AVG. WEIGHTED								
300								
SHARED RESOURCES								
1	LAND	20C					\$ 0.00	
2	BUILDING	10C					\$ 0.00	
3	BLDG ENTRANCE CABLE	12C					\$ 0.00	
4	INTRABLDG CABLE	52C					\$ 0.00	
5	AERIAL CABLE (COPPER)	22C					\$ 0.00	
6	BURIED CABLE (COPPER)	45C					\$ 0.00	
7	UNDERGROUND (CU) CA.	5C					\$ 0.00	
8	CO EQPT - P GAIN TERM	257C					\$ 0.00	
9	CO EQPT - P GAIN CHAN	257C					\$ 0.00	
10	CO EQPT - FO MUX TERM	857C					\$ 0.00	
11	CO EQPT - FO MUX CHAN	857C					\$ 0.00	
12	CO EQPT - ANALOG SW	77C					\$ 0.00	
13	CO EQPT - DIGITAL SW	377C					\$ 0.00	
14	AERIAL CABLE (FIBER)	822C					\$ 0.00	
15	BURIED CABLE (FIBER)	845C					\$ 0.00	
16	UNDERGROUND (FO) CA.	85C					\$ 0.00	
17	CONNECTORS	57C					\$ 0.00	
18	MISC. COM EQP & PWR	57C					\$ 0.00	
19	POLE LINE	1C					\$ 0.00	
20	CONDUIT	4C					\$ 0.00	
DIRECT RESOURCES								
21	LAND	20C					\$ 0.00	
22	BUILDING	10C					\$ 0.00	
23	BLDG ENTRANCE CABLE	12C					\$ 0.00	
24	INTRABLDG CABLE	52C					\$ 0.00	
25	AERIAL CABLE (COPPER)	22C		\$ 0.06			\$ 0.06	
26	BURIED CABLE (COPPER)	45C		\$ 0.01			\$ 0.01	
27	UNDERGROUND (CU) CA.	5C		\$ 0.12			\$ 0.12	
28	CO EQPT - P GAIN TERM	257C					\$ 0.00	
29	CO EQPT - P GAIN CHAN	257C					\$ 0.00	
30	CO EQPT - FO MUX TERM	857C					\$ 0.00	
31	CO EQPT - FO MUX CHAN	857C					\$ 0.00	
32	CO EQPT - ANALOG SW	77C					\$ 0.00	
33	CO EQPT - DIGITAL SW	377C					\$ 0.00	
34	AERIAL CABLE (FIBER)	822C					\$ 0.00	
35	BURIED CABLE (FIBER)	845C					\$ 0.00	
36	UNDERGROUND (FO) CA.	85C					\$ 0.00	
37	CONNECTORS	57C					\$ 0.00	
38	MISC. COM EQP & PWR	57C					\$ 0.00	
39	POLE LINE	1C	0.0	\$ 0.01			\$ 0.01	
40	CONDUIT	4C	0.0	\$ 0.04			\$ 0.04	
41	SPAN SUMMARY			\$ 0.24	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.24
42	AVG. WTD. SPAN SUMMARY			\$ 0.24	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
43	NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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

LAST UPDATE

22-Jan-97

14:08

LOOP COST ANALYSIS TOOL

BelcoreTM

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 14001 FEET - INFINITY INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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LOOP COST ANALYSIS TOOL										Bellicore v7	
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: 1996	
FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
CIRCUIT DESIGN: T C										DATE: 22-Jan-97	
SERVICE CLASS: BASIC 2 - RESIDENCE LINE										TIME: 02:41 PM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
22282 cur lgth										f = 0.125 pgractor	
300 cursidr - lgth											
SEGMENT LENGTH IN FEET										CABLE COMPONENTS (NOTE 5)	
TYPE OF CABLE										(NOTE 4)	
RELATIVE MIX OF TYPE OF										(NOTE 3)	
EFFECTIVE LENGTH SUBSET										CABLE WEIGHTED AIR DRYER	
BY TYPE INVEST. PER										INVESTMENT TERMINAL INVESTMENT	
OF PLANT UNIT FOOT										DROPP WIRE DROPP WIRE	
[A]										[E=C*D] [UI*DTG] [E*factr] [E*factr] [UI*DTG]	
[B] [C=A*B*f] [D]											
19283 AERIAL 0.290000 699.01 0.023600 \$ 16.64 \$ 0.00											
CO TO RT LINK ON BURIED 0.020000 48.21 0.041000 \$ 1.98 \$ 0.00											
COPPER CABLE DLC 24.00 GA. FACILITIES UNDERGRND 0.690000 1663.16 0.022000 \$ 36.59 \$ 0.00											
1.000000											
OUTSIDE PLANT LOADINGS (NOTE 5):										EQUIPMENT INVESTMENT LOADINGS	
ADJUST. / LOAD FACTORS TO AERIAL PFI										INVEST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00	
ADJUST. / LOAD FACTORS TO BURIED PFI										MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127	
ADJUST. / LOAD FACTORS TO UGD PFI										MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127	
DLC EQUIPMENT INVEST. (NOTE 2):										MCE&P INVST. (CU REMMUX x MCEP) = \$ 15.42	
INT DLC EQUIP INVEST. (CU COMUX) = intdlcco \$ 0.00 \$ 0.00										MCE&P INVST. (CDLCMUX x MCEP) = \$ 0.45	
INT DLC EQUIP INVEST. (CU RTMUX) = intdlert \$ 51.57 \$ 85.28										MCE&P INVST. (CO CONN x MCEP) = \$ 0.00	
UNIV DLC EQUIP INVEST. (CU COMUX) = unvalcco \$ 12.14 \$ 87.51										OTHER INVESTMENT	
UNIV DLC EQUIP INVEST. (CU RTMUX) = unvalert \$ 51.57 \$ 85.28										LAND FACTOR FOR DLC (LANDf_rem) = 0.0056	
DLC EQUIP INVEST. (CU LINE) = dlcco \$ 0.00 \$ 0.00										LAND FACTOR FOR DLC (LANDf_c.o.) = 0.0056	
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvst \$ 4.17										LAND INVST. (CU COMUX + MCEP) x LANDf = \$ 0.88	
OTHER INVESTMENT										LAND INVST. ((CO CONN + MCEP) x LANDf) = \$ 0.00	
POLE LINE FACTOR (PLf) = 0.0000 0.2530										BUILDING FACTOR FOR DLC (BLDGf_rem) = 0.1316	
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 7.02										BUILDING FACTOR FOR DLC (BLDGf_c.o.) = 0.1316	
UGD CONDUIT FACTOR (UCf) = 0.0000 0.5165										BLDG INVST. (CDLCMUX + MCEP) x BLDGf = \$ 20.62	
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) = \$ 31.50										BLDG INVST. ((CO CONN + MCEP) x BLDGf) = \$ 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										0.0400	
MIX OF INTEGRATED DIGITAL INTFC										0.9600	
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.											

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LOOP COST ANALYSIS TOOL											Bellcore	
ACCOUNT 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: 1996	
FACILITY TYPE: COPPER DIG LOOP CXR											TEST CASE: 1	
CIRCUIT DESIGN: 1 C											DATE: 22-Jan-97	
SERVICE CLASS: BAND 2 - RESIDENCE LINE											TIME: 02:41 PM	
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 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	0.88	1	\$ 1		1.0000	\$ 1			
BUILDING	10C	F	SHARED	20.75	1	\$ 21		1.0000	\$ 21			
BLDG ENTRANCE CABLE	12C	---	---					1.0000				
INTRABLDG CABLE	52C	---	---					0.3500				
AERIAL CABLE (COPPER)	22C	V	DIRECT	15.64	1		\$ 17	0.6000		\$ 28		
BURIED CABLE (COPPER)	45C	V	DIRECT	1.98	1		\$ 2	0.6000		\$ 3		
UNDERGROUND (CU) CA.	5C	V	DIRECT	40.75	1		\$ 41	0.6000		\$ 68		
CO EQPT - P GAIN TERM	257C	F	DIRECT	67.48	1		\$ 67	0.7000		\$ 96		
CO EQPT - P GAIN CHAN	257C	V	DIRECT	88.78	1		\$ 89	0.7000		\$ 127		
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					0.3300				
CONNECTORS	57C	V	DIRECT					1.0000				
MISC. COM EQP & PWR	57C	V	SHARED	0.45	1	\$ 0		1.0000	\$ 0			
POLE LINE	1C	F	DIRECT	7.02	1		\$ 7	1.0000		\$ 7		
CONDUIT	4C	F	DIRECT	31.50	1		\$ 31	1.0000		\$ 31		
TOTALS												
									\$ 22	\$ 361		
										\$ 383		
										FEED11Y		

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\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL		Belcore	
COLC PLANT - WORKSHEET 1		PROSPECTIVE AND ANNUAL COSTS WORKSHEET			
Sheet 3 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET			
COMPANY: CINCINNATI BELL TEL		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY			
CITY / AREA: OHIO		FACILITY TYPE: COPPER DIG LOOP CRR			
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: 1 T C			
		SERVICE CLASS: BAND 2 - RESIDENCE LINE			
		LCAT Release: 1.0.4		Issue Date: 8/31/95	
		STUDY YR: 1996		TEST CASE: 1	
		DATE: 22-Jan-97		TIME: 02:41 PM	

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED	DIRECT		SHARED	DIRECT	SHARED	DIRECT
			RESOURCES [M=K*L]	RESOURCES [M'=K'*L]		RESOURCES [P=M*N]	RESOURCES [P'=M'*N]	RESOURCES [R=P/12]	RESOURCES [R'=P'/12]
LAND	20C	1.0000	\$ 1		0.2322	\$ 0.20		\$ 0.02	
BUILDING	10C	1.0000	\$ 21		0.2937	\$ 6.10		\$ 0.51	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 28	0.4033		\$ 11.18		\$ 0.93
BURIED CABLE (COPPER)	45C	1.0000		\$ 3	0.3467		\$ 1.14		\$ 0.10
UNDERGROUND (CU) CA.	5C	1.0000		\$ 68	0.3663		\$ 24.88		\$ 2.07
CO EQPT - P GAIN TERM	257C	1.0000		\$ 96	0.3881		\$ 37.41		\$ 3.12
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 127	0.3881		\$ 49.22		\$ 4.10
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		0.3881	\$ 0.17		\$ 0.01	
POLE LINE	1C	1.0000		\$ 7	0.3807		\$ 2.67		\$ 0.22
CONDUIT	4C	1.0000		\$ 31	0.2521		\$ 7.94		\$ 0.66
TOTALS			\$ 22	\$ 361		\$ 6.47	\$ 134.45	\$ 0.54	\$ 11.20
				\$ 383			\$ 140.92		\$ 11.74
				FEED1SY			FEED1ANN		FEED1MRC

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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A		C 123R24\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL		Bellcore TM	
B		COLD PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Release: 1.0.4	
C		Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL.		Issue Date: 8/31/95	
D		CITY / AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT		STUDY YR: 1996	
E		STATE / PROV: OHIO		CIRCUIT DESIGN: 1 COPPER DIG LOOP CDR		TEST CASE: 1	
F				SERVICE CLASS: BAND 2 - RESIDENCE LINE		DATE: 22-Jan-97	
G						TIME: 02:42 PM	
H							
1		logic - 14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT		(SEE NOTE)	
2		BAND		0		TOTAL	
3		PLANT MIX		1.0000		AVG. WEIGHTED	
4		ACCT AVG				INVESTMENT	
5		PLANT ITEM		CODE LGTH		19283	
6		SEG. LGTH.		19283			
7		SHARED RESOURCES					
8		LAND		20C		\$ 0.02	
9		BUILDING		10C		\$ 0.51	
10		BLDG ENTRANCE CABLE		12C		\$ 0.00	
11		INTRABLDG CABLE		52C		\$ 0.00	
12		AERIAL CABLE (COPPER)		22C		\$ 0.00	
13		BURIED CABLE (COPPER)		45C		\$ 0.00	
14		UNDERGROUND (CU) CA.		5C		\$ 0.00	
15		CO EQPT - P GAIN TERM		257C		\$ 0.00	
16		CO EQPT - P GAIN CHAN		257C		\$ 0.00	
17		CO EQPT - FO MUX TERM		857C		\$ 0.00	
18		CO EQPT - FO MUX CHAN		857C		\$ 0.00	
19		CO EQPT - ANALOG SW		77C		\$ 0.00	
20		CO EQPT - DIGITAL SW		377C		\$ 0.00	
21		AERIAL CABLE (FIBER)		822C		\$ 0.00	
22		BURIED CABLE (FIBER)		845C		\$ 0.00	
23		UNDERGROUND (FO) CA.		85C		\$ 0.00	
24		CONNECTORS		57C		\$ 0.00	
25		MISC. COM EQP & PWR		57C		\$ 0.01	
26		POLE LINE		1C		\$ 0.00	
27		CONDUIT		4C		\$ 0.00	
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		\$ 0.93	
34		BURIED CABLE (COPPER)		45C		\$ 0.10	
35		UNDERGROUND (CU) CA.		5C		\$ 2.07	
36		CO EQPT - P GAIN TERM		257C		\$ 3.12	
37		CO EQPT - P GAIN CHAN		257C		\$ 4.10	
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		\$ 0.22	
48		CONDUIT		4C		\$ 0.66	
49		*****					
50		SPAN SUMMARY		11.74		0.00	
51		AVG. WTD. SPAN SUMMARY		11.74		0.00	
52							
53							
54							
55							

NOTE: [sum((INV_{ACCT} * MIX_{BAND}))]

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C:\123R24\LCATCALC\FOPRGN

Belcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

22-Jan-97

Issued: 7/31/95

14:10

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 14001 FEET - INFINITY 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	INV LEVEL
		ANN COST

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LOOP COST ANALYSIS TOOL										Bellicore TM	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/85	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1986	
CIRCUIT DESIGN: 3 FOM.X TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - RESD SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 14:44	
C:\123R24\LCAT\CALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from sfrd_tbi: 300 cur_starlgh 10932.5 cur_onlgh SEGMENT LENGTH IN FEET fo3pri_seg1gh [A] 19283 CO TO HUB LINK ON FIBER OPTIC FACILITIES TYPE OF CABLE PLANT AERIAL BURIED UNDERGRND RELATIVE MIX OF TYPE OF CA. PLANT 0.480000 0.000000 0.520000 1.000000 from bw_mix: f = 1979.04 wtdeqvmn EFFECTIVE LENGTH MLD CABLE SUBSET DESIGN INVEST. PER BY TYPE OF PLANT PAIR FOOT [C=A*B/M] [D] 4.68 0.193000 0.00 0.269400 5.07 0.182700											
CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] 0.90 WEIGHTED TERMINAL INVESTMENT [UI*DTC] 0.00 AIR DRYER INVESTMENT PER PAIR [E*fctr] 0.00 DROP WIRE ADJUSTMENT PER PAIR [E*fctr] 0.00 WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC] 0.00											
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.) = \$ 2.93 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77 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 (LANDfrem) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR OTH (LANDfrem) = 0.0056 LAND INVST. (DLC+MUX+MCEP) x LANDfrem = \$ 0.16 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98 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 (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfrem = \$ 3.80 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09											
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 \$ 51.57 \$ 85.28 UNIV DLC EQUIP. INVEST. (CU COMUX) = unvdlcco \$ 12.14 \$ 87.51 UNIV DLC EQUIP. INVEST. (CU RTMUX) = unvdlcrt \$ 51.57 \$ 85.28 FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco \$ 2.35 \$ 19.62 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort \$ 2.35 \$ 18.49											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = splf 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.54 UNDERGROUND CONDUIT FACTOR (PLf) = fuct 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDERGRND INVST x UCF) = \$ 1.47											
LOOP TOPOLOGY AVERAGE NUMBER OF HUBS STAR 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 0.0400 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.9600											
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.											

C:\123R24\LCAT\CALC\FOPRGN.WK1
FO MUX - WORKSHEET 3
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET
FOR PRIMARY FEEDER PLANT
FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 2 - RESIDSERVICE LEVEL: NARBAND

Bellicore
LCAT Rel: 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 22-Jan-97
TIME : 14:44

PLANT ITEM	PLANT ACCT CODE	FIXED VAR: SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL UTILIZATION	
				COST EQUATION		SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES
	cmstart							utilstart		
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]
LAND	20C	F	SHARED	1.14	1	\$ 1		1.0000	\$ 1	
BUILDING	10C	F	SHARED	26.89	1	\$ 27		1.0000	\$ 27	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000		
BURIED CABLE (COPPER)	48C	V	DIRECT					0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000		
CO EQPT - LOW CAP TERM	257C	F	DIRECT	52.06	1		\$ 52	0.7000		\$ 74
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	88.78	1		\$ 89	0.7000		\$ 127
CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	1		\$ 22	1.0000		\$ 22
CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	1		\$ 38	1.0000		\$ 38
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	0.90	1		\$ 1	0.3300		\$ 3
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.93	1		\$ 1	0.3300		\$ 3
CONNECTORS	57C	V	DIRECT	0.00				1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	2.93	1		\$ 3	1.0000		\$ 3
POLE LINE	1C	F	DIRECT	0.54	1		\$ 1	1.0000		\$ 1
CONDUIT	4C	F	DIRECT	1.47	1		\$ 1	1.0000		\$ 1
TOTALS									\$ 31	\$ 269
										\$ 300

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\$ 31

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\$ 269

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\$ 300

feed3ly

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										Bellcore [®]	
ANNUAL COSTS WORKSHEET										LCAT Rel: 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 2 - RES SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 14:44	
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	SHARED RESOURCES fo3sdxaset	DIRECT RESOURCES fo3dixaset	ANNUAL COST FACTOR acfstart	SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sdxaset	DIRECT RESOURCES fo3dixaset		
[PREVIOUS SHEET SUMMARY [L] [M=K*L] [M'=K*L] [N] [P=M*N] [P'=M'*N] [Q=P/12] [Q'=P'/12]											
9. LAND	20C	1.0000	\$ 1		0.2322	\$ 0.27		\$ 0.02			
10. BUILDING	10C	1.0000	\$ 27		0.2937	\$ 7.90		\$ 0.66			
11. BLDG ENTRANCE CABLE	12C	1.0000			0.3922						
12. INTRABLDG CABLE	52C	1.0000			0.3922						
13. AERIAL CABLE (COPPER)	22C	1.0000			0.4033						
14. BURIED CABLE (COPPER)	45C	1.0000			0.3467						
15. UNDERGROUND (CU) CA.	5C	1.0000			0.3663						
16. CO EQPT - LOW CAP TERM	257C	1.0000		\$ 74	0.3881		\$ 28.86		\$ 2.41		
17. CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 127	0.3881		\$ 49.22		\$ 4.10		
18. CO EQPT - HI CAP TERM	857C	1.0000		\$ 22	0.3881		\$ 8.72		\$ 0.73		
19. CO EQPT - HI CAP CHAN	857C	1.0000		\$ 38	0.3881		\$ 14.79		\$ 1.23		
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		\$ 3	0.2983		\$ 0.82		\$ 0.07		
23. BURIED CABLE (FIBER)	845C	1.0000			0.2724						
24. UNDERGROUND (FO) CA.	85C	1.0000		\$ 3	0.2689		\$ 0.75		\$ 0.06		
25. CONNECTORS	57C	1.0000			0.3881						
26. MISC. COM EQP & PWR	57C	1.0000	\$ 3		0.3881	\$ 1.14		\$ 0.09			
27. POLE LINE	1C	1.0000		\$ 1	0.3807		\$ 0.20		\$ 0.02		
28. CONDUIT	4C	1.0000		\$ 1	0.2521		\$ 0.37		\$ 0.03		
TOTALS											
			\$ 31	\$ 269		\$ 9.30	\$ 103.74	\$ 0.77	\$ 8.65		
				\$ 300			\$ 113.04		\$ 9.42		
				feed3sy			feed3anq		feed3mrc		
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\CALO\OPRGN.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: 1995	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 3] FOMUX TO HUB / REM.				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESID				LAST RUN: 22-Jan-97	
		SERVICE LEVEL: NARBAND				TIME: 14:45	
data - 14a3		1995 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		0				TOTAL	
PLANT MIX		1.0000				AVG WEIGHTED	
ACCT AVG.						INVESTMENT	
PLANT ITEM		CODE LGTH				19283	
SEG LGTH		19283					
SHARED RESOURCES							
7	LAND	20C		\$ 0.02			\$ 0.02
8	BUILDING	10C		\$ 0.66			\$ 0.66
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 - LOW CAP TERM	257C					\$ 0.00
15	CO EQPT - LOW CAP CHAN	257C					\$ 0.00
16	CO EQPT - HI CAP TERM	857C					\$ 0.00
17	CO EQPT - HI CAP 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		\$ 0.09			\$ 0.09
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					\$ 0.00
34	BURIED CABLE (COPPER)	45C					\$ 0.00
35	UNDERGROUND (CU) CA.	5C					\$ 0.00
36	CO EQPT - LOW CAP TERM	257C		\$ 2.41			\$ 2.41
37	CO EQPT - LOW CAP CHAN	257C		\$ 4.10			\$ 4.10
38	CO EQPT - HI CAP TERM	857C		\$ 0.73			\$ 0.73
39	CO EQPT - HI CAP CHAN	857C		\$ 1.23			\$ 1.23
40	CO EQPT - ANALOG SW	77C					\$ 0.00
41	CO EQPT - DIGITAL SW	377C					\$ 0.00
42	AERIAL CABLE (FIBER)	822C		\$ 0.07			\$ 0.07
43	BURIED CABLE (FIBER)	845C					\$ 0.00
44	UNDERGROUND (FO) CA.	85C		\$ 0.06			\$ 0.06
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C		\$ 0.02			\$ 0.02
48	CONDUIT	4C		\$ 0.03			\$ 0.03
49	SPAN SUMMARY		9.42	0.00	0.00	0.00	\$ 9.42
50	AVG. WTD. SPAN SUMMARY		9.42	0.00	0.00	0.00	
51	NOTE: [sum(INV _{ACCT} BAND * MD(BAND))]						

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION 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: 12-Jul-96
TIME: 08:10

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-MULTI-PLXED) 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.

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TABLE - COST_METH

Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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CM123R24\LCATR073\COST\METH

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: 12-Jul-96
TIME: 08:10

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS							
	NARROWBAND		WIDEBAND		BROADBAND			
	CATEGORY	RESOURCE	CATEGORY	RESOURCE	CATEGORY	RESOURCE		
PLANT CODE	SENS. INDEX	ASSIGNMENT	SENS. INDEX	ASSIGNMENT	SENS. 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	V	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(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
 ITEMS LABELED F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION

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C:\123R24\LCATR073\COSTMETH
TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

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\LCATR073\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS : 09-Dec-96	
LCAT Rel. : 1.0.4				LAST UPDATE:	
Issue Date : 3/31/95				17-Oct-96 01:28 PM	
STUDY NAME		1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 14001 FEET - INFINITY INTRASTA			
COMMENTS					
SERVICE CLASS		BAND 2 - RESIDENCE LINE		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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C:\123R24\LCAT073\CRITERIA
 INPUT - STUDY SETUP
 Sheet 1 of 2

HELP SCREEN**Belcore**®

LCAT Rel. 1.0.4
 ISSUED: 3/31/96

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.

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C:\123R24\LCAT073\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 2 - RESIDENCE LINE		LCAT Rev: 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-96 TIME: 01:26 PM	
SELECTED QUESTIONS					
<u>CONCERNING - SERVICE SPEC.</u>	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 ?				
<u>OFFICE CHAR.</u>	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Camer Installations are INTEGRATED DLC's? 7. What Percent of Loop Camer Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Camer (loop pair gain) exclusively at ?				
<u>RESULTS SPEC.</u>	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.				

VALID RESPONSE	
SET	
N or A	NEW
S or P	SWITCHED
N, W or B	NARBAND
2 or 4	2
0 → 100	100
0 → 100	0
0 → 100	
e.g., 12000	14000 Feet
For D	FLAT RATE
1, 2, 3	
0	0
N or A	COST
For M	TOT INCR.
0 → 999	RATES PLAN

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C:\123R24\LCATR073\CRITERIA

HELP SCREEN

Bellcore[®]

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR073\DESIGN

LOOP COST ANALYSIS TOOL**Belcore**INPUT - LOOP_DESIGN
Sheet 1 / 1**CIRCUIT DESIGN REQUIREMENTS
CHARACTERISTICS**

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 2 - RESIDENCE LINE

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 12-Jul-96

TIME: 08:13

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

NA 0.0000

Weighting of Design #5

NA 0.0000

Weighting of Design #6

NA 0.0000

1.0000

ChkSum

FOR COPPER DLC DESIGNS:

Weighting of Design #1

1.0000

Weighting of Design #2

NA 0.0000

1.0000

ChkSum

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

C:\123R24\LCATR073\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 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.

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CA123R24\LCATR073\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV		LOOP FACILITY INPUT		LCAT Rel: 1.0.4	
SHEET 1/4		FIBER CABLE DATA		Issued: 07/31/95	
		FOR		STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		LAST UPDATE: 12-Jul-96	
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE LINE		TIME: 08:15	

FIBER CABLE INVESTMENT AND CHARACTERISTICS

	FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	
CABLE TYPE MIX (DISTRIBUTION TO CODE) :			
Proportion of FIBER cable installations that are			
AERIAL	0.4800	0.0000	factors
BURIED	0.0000	0.0000	factors
UNDGRD	0.5200	0.0000	factors

**INVESTMENT PER CABLE PAIR FOOT
BY CABLE TYPE :**

Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N)

If not, Update Unit Averages as Follows :

PRIMARY SEGMENT

Average Unit Investment for FIBER cable,
Installed as

N

(Required with INDIVIDUAL Mode)

AERIAL	\$	0.1930	per fiber pair Foot
BURIED	\$	0.2694	per fiber pair Foot
UNDGRD	\$	0.1827	per fiber pair Foot

to Fiber Hub

FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT

Average Unit Investment for FIBER cable,
Installed as

N

AERIAL	\$	0.1930	\$	0.0000	per fiber pair Foot
BURIED	\$	0.2694	\$	0.0000	per fiber pair Foot
UNDGRD	\$	0.1827	\$	0.0000	per fiber pair Foot

(Fiber Hub to Remote Terminal) (Remote Terminal to Service Point)

CA123R24\LCATR073\FACILITY		LOOP COST ANALYSIS TOOL				Bellicore
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 2 - RESIDENCE LINE				LCAT Ref: 1.C.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:15
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

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LCAT Rel: 1.0.4
Issued: 07/31/95

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C:\123R24\LCATR073\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore (79)	
TABLE - SPAN_INV SHEET 2 / 4		LOOP FACILITY INPUT COPPER CABLE DATA FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1998				STUDY YR: 1998	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1998				TEST CASE: 1	
STATE/PRCV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE LINE				LAST UPDATE: 12-Jul-95 TIME: 08:15	
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)		
		22 GA.	0.0000	0.0000	If not, Update N		
Cable Type Mix, By Gauge :				GUAGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	
The Proportion of		26 GA. AERIAL	0.2900	0.6200	Average Unit		
Copper Cable that is		26 GA. BURIED	0.0200	0.3300	Investment for		
		26 GA. UNDGRND	0.6900	0.0500	Copper Cable		
		24 GA. AERIAL	0.2900	0.6200	Installed as		
		24 GA. BURIED	0.0200	0.3300			
		24 GA. UNDGRND	0.6900	0.0500			
		22 GA. AERIAL	0.0000	0.0000			
		22 GA. BURIED	0.0000	0.0000			
		22 GA. 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\LCATR073\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN INV		LCAT FACILITY INPUT		LCAT Rel: 1.04
SHEET 2A / 4		COPPER CABLE DATA - BY CABLE SHEATH DETAIL		Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR: 1996
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		TEST CASE: 1
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		LAST UPDATE: 12-Jul-96
		SERVICE CLASS: BAND 2 - RESIDENCE LINE		TIME: 08:15

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 =>	26 GA.			24 GA.			22 GA.		
			INDEX	AERIAL	BURIED	UNGRD	AERIAL	BURIED	UNGRD	AERIAL	BURIED	UNGRD
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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Issued: 07/31/95

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LCAT

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C:\123R24\LCAT073\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore[®]SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Rel: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 12-Jul-96
TIME: 08:15COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - RESIDENCE LINE

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
	[A]	[B]	[C]	[D=A*C]	[E=B*C]
CHARACTERISTICS FOR:					
AERIAL @ 26 GA.	0.620000	\$ 0.042600	0.1500	0.093000	\$ 0.006390
BURIED @ 26 GA.	0.330000	\$ 0.066800	0.1500	0.049500	\$ 0.010020
UNDGRND @ 26 GA.	0.050000	\$ 0.058000	0.1500	0.007500	\$ 0.008700
AERIAL @ 24 GA.	0.620000	\$ 0.042600	0.8500	0.527000	\$ 0.036210
BURIED @ 24 GA.	0.330000	\$ 0.066800	0.8500	0.280500	\$ 0.056780
UNDGRND @ 24 GA.	0.050000	\$ 0.058000	0.8500	0.042500	\$ 0.049300
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 RENORMALIZED AERIAL / BURIED	MELDED GAUGES
CHARACTERISTICS FOR:		[F=sum(D*Type)]		[G=sum(E*Type)]		[H=FTYPE / sum(F*Type)]
AERIAL		0.620000		\$ 0.042600		\$ 0.652000
BURIED		0.330000		\$ 0.066800		\$ 0.347300
UNDERGRND		0.050000		\$ 0.058000		
		Check = 1.000000				Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR073\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR		LCAT Rpt: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE		STUDY YR: 1996	
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT		TEST CASE: 1996	
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE LINE		DATE: 1	
				LAST UPDATE: 12-Jul-96	
				TIME: 08:15	
MELDED CABLE INVESTMENT PER PAIR FOOT					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fd)	PER FOOT INVESTMENT (pft...fd)	CABLE GAUGE MIX (copper...fd)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.290000	\$ 0.011900	0.1500	0.043500	\$ 0.001785
BURIED @ 26 GA.	0.020000	\$ 0.020500	0.1500	0.003000	\$ 0.003075
UNDGRND @ 26 GA.	0.690000	\$ 0.011000	0.1500	0.103500	\$ 0.001650
AERIAL @ 24 GA.	0.290000	\$ 0.011900	0.8500	0.246500	\$ 0.010115
BURIED @ 24 GA.	0.020000	\$ 0.020500	0.8500	0.017000	\$ 0.017425
UNDGRND @ 24 GA.	0.690000	\$ 0.011000	0.8500	0.586500	\$ 0.009350
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 6	
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	0.290000	\$ 0.011900	\$ 0.011900	\$ 0.011900	\$ 0.011900
BURIED	0.020000	\$ 0.020500	\$ 0.020500	\$ 0.020500	\$ 0.020500
UNDERGRND	0.690000	\$ 0.011000	\$ 0.011000	\$ 0.011000	\$ 0.011000
Check = 1.000000		Check = 1.000000		Check = 1.000000	
FOOTNOTES					

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C:\123R24\LCAT073\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA		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 2 - RESIDENCE LINE		LAST UPDATE: 12-Jul-96 TIME: 08:15
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 (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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C:\123R24\LCATR073\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Belcore[®]
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

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

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CM123R24\LCATR073\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTION'S MELDING 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		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:15
		SERVICE CLASS: BAND 2 - RESIDENCE LINE		
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT		
DESCRIPTION	REPEATER SPACING (A)	UNIT REPEATER INVESTMENT (B)	REPEATER INVEST. PER FOOT (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		
ADJUSTED PAIR / FOOT INVESTMENT DESCRIPTION	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2" (PF1cgg) (D)	REPEATER BY GAUGE (RPTR ggg) (E=C)	WORKING CHANNEL INVESTMENT / FOOT (ADLCPF1cgg) (F=D+E)	FOR DLC Gauge : 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPF1d) (G=F+D+E)
AERIAL @ 26 GA.	\$ 0.023800	\$ 0.000000	\$ 0.023800	\$ 0.023800
BURIED @ 26 GA.	\$ 0.041000	\$ 0.000000	\$ 0.041000	\$ 0.041000
UNDGRND @ 26 GA.	\$ 0.022000	\$ 0.000000	\$ 0.022000	\$ 0.022000
AERIAL @ 24 GA.	\$ 0.023800	\$ 0.000000	\$ 0.023800	\$ 0.023800
BURIED @ 24 GA.	\$ 0.041000	\$ 0.000000	\$ 0.041000	\$ 0.041000
UNDGRND @ 24 GA.	\$ 0.022000	\$ 0.000000	\$ 0.022000	\$ 0.022000
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\LCAT\073\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)								
TABLE - SPAN_INV SHEET 4 / 4		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR		LCAT Rel: 1.0.4 Issued: 07/31/95								
COM: COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE LINE		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:15								
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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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? (Y/N)	N	
Aerial Wire Drops	0.0000											
Buried Wire Drops	0.0000											
Bldg Entrance Cable	1.0000											
Aerial Coax/Wire Drops	0.0000											
		Per Unit Installation.....	<table border="1" style="display: inline-table; vertical-align: top;"> <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	\$ 0.00											
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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\\LCATP073\FACILITY
SPAN_INV
/4

HELP SCREEN

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

terna These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network
termb 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
bdropinv pair installation investment.
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.

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C:\123R24\LCATR091\FACTORS

LOOP COST ANALYSIS TOOL

Bellcore

TABLE - FACTORS
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES

FOR
ANNUALIZATION FACTORS

INVESTMENT YEAR : 1996

STUDY YEAR: 1996

LCAT Rel: 1.0.4

Issued: 3/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 17-Jan-97

TIME: 15:22

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

SERVICE CLASS: BAND 2 - RESIDENCE LINE

plant list

LAND

BUILDING

BLDG ENTRANCE CABLE

INTRABLDG CABLE

AERIAL CABLE (COPPER)

BURIED CABLE (COPPER)

UNDERGROUND (CU) CA.

CO EQPT - LOW CAP TERM

CO EQPT - LOW CAP CHAN

CO EQPT - HI CAP TERM

CO EQPT - HI CAP CHAN

CO EQPT - ANALOG SW

CO EQPT - DIGITAL SW

AERIAL CABLE (FIBER)

BURIED CABLE (FIBER)

UNDERGROUND (FO) CA.

CONNECTORS

MISC. COM EQP & PWR

POLE LINE

CONDUIT

PRICE
INDEXANNUAL
COST

1.0000	0.2322
1.0000	0.2937
1.0000	0.3922
1.0000	0.3922
1.0000	0.4033
1.0000	0.3467
1.0000	0.3663
1.0000	0.3881
1.0000	0.3881
1.0000	0.3881
1.0000	0.3881
1.0000	0.0000
1.0000	0.3458
1.0000	0.2983
1.0000	0.2724
1.0000	0.2689
1.0000	0.3881
1.0000	0.3881
1.0000	0.3807
1.0000	0.2521

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C:\123R24\LCATR073\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 2 - RESIDENCE LINE				LAST UPDATE: 12-Jul-96	
						08:16	
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)							
		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	\$ 87.51	\$ 12.14	\$ 85.28	\$ 51.57	
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 85.28	\$ 51.57	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
1. For a Hub with nonFiber Extensions or nonHub Arrangement		\$ 19.62		\$ 2.35	\$ 18.49	\$ 2.35	
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							\$ 8.33
[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service equiv.]							

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C:\123R24\LCATR073\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

BellcoreTM

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.	1,2,5 & 6
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\LCATR073\LOADING		LOOP COST ANALYSIS TOOL		Belcore (R)
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 2 - RESIDENCE LIN		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 05-Dec-96 TIME: 14:55
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 Hut		1.0000
		V Comm. Svc. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore** (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.

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C:\123R24\LCATR073\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 2 - RESIDENCE LINE		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 05-Dec-96 TIME: 14:55
SEGMENT DISTRIBUTION FEEDER ② use DEFAULT		DROP WIRE (DW) INVESTMENT ADJUSTMENT: The Cable PFI is being Adjusted for DW ? NO Aerial Cable Buried Cable Underground Cable use DEFAULT ① ② for: CENT. OFC. REMOTE SITE		
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		LAND LOADING FACTORS: Other or ALL ① 0.0056 0.0056 Digital Loop Carrier 0.0056 0.0056 Fiber Optic Mux 0.0056 0.0056		
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		BUILDING LOADING FACTORS: Other or ALL ① 0.1316 0.1316 Digital Loop Carrier 0.1316 0.1316 Fiber Optic Mux 0.1316 0.1316		
		MISC. EQUIPMENT & POWER LOADING FACTORS: Other or ALL ① 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

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Issued: 3/31/85

Copper Cable Pole Investment Factor	cpiff	_dst	_fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cpifi	_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	fpifi	_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).
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C:\123R24\LCATR073\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)																		
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 2 - RESIDENCE LINE		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 15-Oct-96 TIME: 08:41																		
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 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;"> <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> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td style="text-align: right;">22282.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td style="text-align: right;">2699.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td style="text-align: right;">300.0</td> </tr> <tr> <td>PRIMARY</td> <td style="text-align: right;">19283.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR	TOTAL LOOP	22282.0	DISTRIBUTION	2699.0	SUB-PRIMARY	300.0	PRIMARY	19283.0	PRIMARY-EXTENSION	
ACTION SEGMENT																						
PRIMARY	STAR																					
PRIMARY	NA																					
DISTRIBUTION	STAR																					
TOTAL LOOP	22282.0																					
DISTRIBUTION	2699.0																					
SUB-PRIMARY	300.0																					
PRIMARY	19283.0																					
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 22282.0		LAST 1.0000 1.0000 Hint																				

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C:\123R24\LCATR073\SPAN		LOOP COST ANALYSIS TOOL		Bellcore	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT		LCAT Rel : 1.0.4	
Sheet 1 / 1		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued : 07/31/96	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR : 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		LOOP STUDY YEAR : 1996		LAST UPDATE : 16-Dec-96	
		SERVICE CLASS : BAND 2 - RESIDENCE LINE		TIME : 08:41	
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY					
<u>LOOP LENGTH</u> ① 22282 FEET DROP DISTRIBUTION ② FEEDER ③ 2699 FEET 300.0 FEET 9283 FEET ON FIBER DISTRIBUTION EXTENSION ④ PRIMARY ⑤ PRIMARY ⑥ NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER) FIBER HUB END OFFICE					

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PRIOR TO RELEASE
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LOOP COST ANALYSIS TOOL		Belcore [®]
C:\123R24\LCAT\073\SPAN	LOOP FACILITY INPUT HELP SCREEN	LCAT Rel : 1.0.4 Issued : 07/31/95
INPUT - PLANT CHAR. Sheet 1 of 2		
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 weighting 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 multiplexers bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix 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*****		
PRESS 'ENTER' TO RETURN TO THE MAIN MENU		

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C:\123R24\LCATR073\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT = PLANT_CHAR Sheet 2 of 2		HELP SCREEN		LCAT Rev 1.0.4 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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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: 16-Oct-96
TIME: 08:41

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)							
SELECT	MODE	HIERARCHY	BNDWDT	DS1MULT	DS3MULT	VGE	MEDIA
0							
1		DS1	1.5 Mbps	1	0.04		24 BIDIR 2WCU CA
2	MODE3	DS1	1.5 Mbps	1	0.04		24 UNDIR 2WCU CA
3		VT1	1.5 Mbps	1	0.04		24 UNDIR FIBER
4		VT2	2 Mbps	1	0		UNDIR FIBER
5		E1	2 Mbps	1	0.05		30 BIDIR 2WCU CA
6	MODE1	DS1C	3.2 Mbps	NA			48 BIDIR 2WCU CA
7	MODE2	DS1C	3.2 Mbps	2	0.07		48 BIDIR 2WCU CA
8		VT3	3.2 Mbps	2	0.07		58 UNDIR FIBER
9		E2	4 Mbps	2	0		60
10		DS2	6.3 Mbps	4	0.14		72 BIDIR 2WCU CA
11	MODE4	DS2	6.3 Mbps	NA	0		72 BIDIR 2WCU CA
12		VT6	6.3 Mbps	4	0.14		84 UNDIR FIBER
13		E3	8 Mbps	4	0.25		120 BIDIR 2WCU CA
14		E3	34 Mbps	16	1		480
15		DS3	45 Mbps	28	1		872 BIDIR 2WCU CA
16	STS1	OC1	50 Mbps	28	1		672 UNDIR FIBER
17	X		90 Mbps		2		1344 UNDIR FIBER
18			90 Mbps		2		1344 BIDIR MWV RADIO
19		DS4	135 Mbps		3		2016 UNDIR FIBER
20			135 Mbps		3		2016 BIDIR MWV RADIO
21		DS4NA	139 Mbps		3		2016 UNDIR FIBER
22		E4	140 Mbps		3		1920 UNDIR FIBER
23		14M	139 Mbps		5		4032 BIDIR COAX
24		PT40	139 Mbps		5		4032 BIDIR COAX
25	X	OC3	155 Mbps		3		2016 UNDIR FIBER
26	X		180 Mbps		4		2688 UNDIR FIBER
27			417 Mbps		9		6648 UNDIR FIBER
28		OC9	466 Mbps		9		6648 UNDIR FIBER
29		OC12	560 Mbps		12		7680 UNDIR FIBER
30			565 Mbps		12		6084 UNDIR FIBER
31			1.2 Gbps		24		16128 UNDIR FIBER
32			1.7 Gbps		36		26196 UNDIR FIBER
33		OC24	1.8 Gbps		24		24162 UNDIR FIBER
34			2.5 Gbps		24		34560 UNDIR FIBER
35							
36							
0	1	2	3	4	5	6	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

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

FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - RESIDENCE
WORKSHEET F

STUDY YR.: 1996
TEST CASE: 1
LAST UPDATE: 15-Oct-96
TIME: 08:41

[A] 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)]	[R] 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]
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 the $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$

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CA123R24\LCATR073\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT CHAR.		LOOP FACILITY INPUT				LCAT Rel: 1.0.4	
Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				Issued: 07/31/95	
COMPANY: 0		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 2 - RESIDENCE LINE				LAST UPDATE: 16-Oct-96	
						TIME: 08:41	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
[C]	idx	CUMULATIVE FEEDER LENGTH [D _A]	EFFECTIVE LENGTH BY PAIR FOOT [E _A]	CUMULATIVE FEEDER LENGTH [D _B]	EFFECTIVE LENGTH BY PAIR FOOT [E _B]	CUMULATIVE FEEDER LENGTH [D _U]	EFFECTIVE LENGTH BY PAIR FOOT [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:				EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT:			
AERIAL FIBER SUBTOTAL		0		AERIAL FIBER SUBTOTAL		0.0	
BURIED FIBER SUBTOTAL		0		BURIED FIBER SUBTOTAL		0.0	
UNDGRD FIBER SUBTOTAL		0		UNDGRD FIBER SUBTOTAL		0.0	
FIBER SUBTOTAL		0		FIBER SUBTOTAL		0.0	

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C:\123R24\LCATR073\SPAN		LOOP COST ANALYSIS TOOL				Bellcore [®]			
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 2 - RESIDENCE LINE				LAST UPDATE: 16-Oct-96			
						TIME : 08:41			
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B					
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A/[F]WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A]*[C]*UNIT INV FACILITY WKSH B									
		CAPACITY	idx	AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		[C]		[A]	[B]	[A]	[B]	[A]	[B]
For these sizes ...									
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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C:\123R24\LCATR073 SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT_CHAR		LOOP FACILITY INPUT						LCAT Rel: 1.0.4		
Sheet 3a / 5		COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER						Issued: 07/31/96		
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 2 - RESIDENC						LAST UPDATE: 16-Oct-96		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A						TIME: 08:41		
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES		26 GA.			24 GA.			22 GA.		
CAPACITY 10X		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\LCAT073\SPAN		LOOP COST ANALYSIS TOOL						Belcore			
PLANT CHAR - WORKSHEET 3B 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. CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR: 1996 TEST CASE: 1			
STATE: OHIO		SERVICE CLASS: BAND 2 - RESIDENC						LAST UPDATE: 15-Oct-96 TIME: 08:41			
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	
UNDGRND CABLE SUBTOTAL					0.00			0.00			0.00

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LOOP COST ANALYSIS TOOL

Bellicore

INPUT - PLANT_CHAR.
Sheet 4a / 5LOOP FACILITY INPUT
COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER
FOR

LCAT Rel : 1.0.4

Issued : 07/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE : 16-Oct-96

TIME : 08:41

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - RESIDENC

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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C:\123R24\LCATR073\SPAN			LOOP COST ANALYSIS TOOL						Bellcore		
PLANT CHAR - WORKSHEET 48 Sheet 4b / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 18-Oct-96 TIME: 08:41		
NETWORK CIRCUIT LAYOUT STUDIES			SERVICE CLASS: BAND 2 - RESIDENC						WORKSHEET B		
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES		CAPACITY	25 GA.			24 GA.			22 GA.		
	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\LCATR073\SPAN		LOOP COST ANALYSIS TOOL							Bellcore®	
INPUT - 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: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE LINE							STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:41	
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL		LEVEL OF SERVICE: NARBAND								
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE PROTECTION	WEIGHTED	
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL	EQUIVALENT	
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE	CHANNELS	
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	[SLM]	PER FO PAR	
								[E]	[F]	
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1979.04	
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	1	1979.04	

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FOOTNOTES
1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.
2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BA1 -> 7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]}.

0

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**OHIO ONLY
3 Geographic Areas**

07/26/96
Revised

Band 1

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
1	0-12,000	6,081	1,103	7,184	5,765	638	6,403
2	# Of Entries	107			255		
3	12,001-INFINITY	14,881	2,346	17,226	13,630	2,046	15,677
4	# Of Entries	53			38		
5	Ratio						
6	0-12,000	0.5744			0.7433		
7	12,001-INFINITY	0.4256			0.2567		
		1.0000			1.0000		

Band 2

8	0-14,000	6,697	1,836	8,534	5,698	1,013	6,711
9	# Of Entries	69			90		
10	14,001-INFINITY	19,582	2,699	22,282	21,785	1,989	23,774
11	# Of Entries	70			74		
12	Ratio	0.4964			0.5488		
13	0-14,000	0.5036			0.4512		
14	14,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	56			30		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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OHIO ONLY
REVISED JAN 1997 VERSION
BAND 3
RESIDENCE LINE

MCI Depo.
EX. NO. 41
DH 11-26-97

INDEX

BAND 3

Residence Line

Copper Study -	Results.....	Tab 1
	Outputs.....	Tab 2
	Inputs.....	Tab 3
	Miscellaneous	Tab 4

Digital Loop Carrier Study -	Results	Tab 5
	Outputs.....	Tab 6
	Inputs.....	Tab 7
	Miscellaneous	Tab 8

A
B
C
D
E
F
GC:\123R24\LCATR092\RESULTS:
OUTPUT - REPORT D
SHEET 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT SUMMARY REPORT

Bellcore (R)

LCAT Rel: 1.0.4

Issued: 7/31/95

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 6625 FEETSTUDY YR: 1998
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:05

Loop Span Set Weighting: 1

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

WEIGHTED

PLANT NAME FEEDER DISTRIBUTION NETWORK
SEG. NAME PRIMARY EXTENSION SUB- INTERFACE

EQPT

CODE

SEG.LGTH.

PLANT
ITEM DESCRIPTION

SHARED RESOURCES

8	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
9	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
26	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000

DIRECT RESOURCES

30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 2.48	\$ 4.61	\$ 0.00	\$ 7.0900
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.18	\$ 4.73	\$ 0.00	\$ 4.9100
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.00	\$ 0.00	\$ 0.4400
37	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
40	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.59	\$ 1.10	\$ 0.00	\$ 1.6900
49	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 0.00	\$ 0.00	\$ 0.1600

SPAN SUMMARY

\$ 0.00

\$ 0.00

\$ 3.85

\$ 10.44

\$ 2.45

\$ 16.74

\$ 16.74

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C:\123R24\LCATR092\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 3 (OHIO) RESIDENCE LINE STUDY 0 - 18000 FEET INTRASTATE

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	16:20
CST METH	UN INCR	INV LEVEL	ANN COST	5 TIME

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

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A B C D E F G	LOOP COST ANALYSIS TOOL										Bellcore [®]	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
0	C:\123R24\LCATR092\RESULTS1										Issued: 7/31/95	
1	OUTPUT - WORKSHEET D										STUDY YR: 1996	
2	SHEET 1 of 10										TEST CASE: 1	
3	COMPANY: CINCINNATI BELL TEL										RUN DATE: 22-Jan-97	
4	CITY / AREA: CINCINNATI										TIME: 15:05	
5	STATE / PROV: OHIO											
6	JOB IDENT: CINCINNATI											
7	CIRCUIT DESIGN: 1 CDLC											
8	LOOP SPAN DIVISION: ALL LOOP SPANS											
9	SERVICE CLASS: BAND 3 - RESIDENCE LIN											
10	TOTAL LOOP LENGTH: 6825 FEET											
11	Circuit Design Mix: 1.0000											
12	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
13	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK											
14	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE											
15	EQPT CODE											
16	PLANT											
17	ITEM DESCRIPTION											
18	<u>SHARED RESOURCES</u>											
19	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
20	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
21	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
22	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
23	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
24	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
25	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
26	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
27	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
28	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
29	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
30	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
31	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
32	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
33	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
34	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
35	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
36	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
37	POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
38	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
39	<u>DIRECT RESOURCES</u>											
40	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
41	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
42	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45	\$ 2.45	\$ 2.45
43	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
44	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 2.48	\$ 4.61	\$ 7.09	\$ 7.09	\$ 7.09	\$ 7.09	\$ 7.09	\$ 7.09
45	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.18	\$ 4.73	\$ 4.91	\$ 4.91	\$ 4.91	\$ 4.91	\$ 4.91	\$ 4.91
46	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.44	\$ 0.00	\$ 0.44	\$ 0.44	\$ 0.44	\$ 0.44	\$ 0.44	\$ 0.44
47	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
48	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
49	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
50	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
51	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
52	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
53	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
54	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
55	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
56	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
57	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
58	POLE LINE	1C	\$ 0.00		\$ 0.58	\$ 1.16	\$ 1.69	\$ 1.69	\$ 1.69	\$ 1.69	\$ 1.69	\$ 1.69
59	CONDUIT	4C	\$ 0.00		\$ 0.16	\$ 0.16	\$ 0.16	\$ 0.16	\$ 0.16	\$ 0.16	\$ 0.16	\$ 0.16
60	SPAN SUMMARY											
61			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 16.74	\$ 16.74	\$ 16.74	\$ 16.74	\$ 16.74
62	CIRCUIT DESIGN SUMMARY											
63								\$ 16.74	\$ 16.74	\$ 16.74	\$ 16.74	\$ 16.74

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C:\123R24\LCATR092\RESULTS1		LOOP COST ANALYSIS TOOL				Bellicore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 2 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 CDLC		STUDY YR: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		DATE: 22-Jan-97		TIME: 15:05	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE LIN					
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6825 FEET					
Circuit Design Mix: 0.0000 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 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 - P GAIN TERM	257C				\$0	\$0
	CO EQPT - P GAIN CHAN	257C				\$0	\$0
	CO EQPT - FO MUX TERM	857C				\$0	\$0
	CO EQPT - FO MUX 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
	CIRCUIT DESIGN SUMMARY					\$0	\$0

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GCR123R24\LCATR092\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®

LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELED
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 6825 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:05

Technology Type Mix: 0.0000

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

TECHNOLOGY

WEIGHTED

PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	TOTAL LOOP
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE
EQPT				
PLANT CODE				
ITEM DESCRIPTION				
SHARED RESOURCES				
LAND 20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING 10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE 12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE 52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER) 22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER) 45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA. 5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM 257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN 257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM 857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN 857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW 77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW 377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER) 822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER) 845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA. 85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS 57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR 57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE 1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT 4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES				
LAND 20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING 10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE 12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45
INTRABLDG CABLE 52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER) 22C	\$ 0.00	\$ 0.00	\$ 2.48	\$ 4.81
BURIED CABLE (COPPER) 45C	\$ 0.00	\$ 0.00	\$ 0.18	\$ 4.73
UNDERGROUND (CU) CA. 5C	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.00
CO EQPT - P GAIN TERM 257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - P GAIN CHAN 257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - FO MUX TERM 857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - FO MUX CHAN 857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW 77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW 377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER) 822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER) 845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA. 85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS 57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR 57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE 1C	\$ 0.00	\$ 0.00	\$ 0.59	\$ 1.10
CONDUIT 4C	\$ 0.00	\$ 0.00	\$ 0.16	\$ 0.00
SPAN SUMMARY	\$ 0.00	\$ 0.00	\$ 3.85	\$ 10.44
TECHNOLOGY DESIGN SUMMARY				\$ 16.74

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LCAT Rel : 1.0.4
Issued : 7/31/95
STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 15:05

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GC:\23R24\LCATR092\RESULTS1
OUTPUT - WORKSHEET D
SHEET 5 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 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 6825 FEETSTUDY YR: 1998
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:05

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

WEIGHTED

PLANT NAME	SEG. NAME	PRIMARY	FEEDER	EXTENSION	SUB--	DISTRIBUTION	NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED 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	\$0

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GC:\123R24\LCATR092 RESULTS1
OUTPUT - WORKSHEET D
SHEET 6 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:05COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 3 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 6825 FEET

Circuit Design Mix: 11.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	TOTAL LOOP
	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE
	EQPT				
	PLANT CODE				
	ITEM DESCRIPTION				
7	SHARED RESOURCES				
8	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00
9	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00
11	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00
13	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00
17	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00
19	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00
21	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00
23	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00
25	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00
26	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00
27	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00
28					
29	DIRECT RESOURCES				
30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.45
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 2.48	\$ 4.61
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.18	\$ 4.73
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.44	\$ 0.00
37	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00
38	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00
39	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00
40	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00
43	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00
45	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00
48	POLE LINE	1C	\$ 0.00	\$ 0.59	\$ 1.69
49	CONDUIT	4C	\$ 0.00	\$ 0.16	\$ 0.16
50					
51	SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 3.85
52					\$ 10.44
53					\$ 2.45
54					\$ 16.74
55					\$ 16.74

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OUTPUT - WORKSHEET D
SHEET 7 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBelcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:05COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 4 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 6825 FEET

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

TOTAL WEIGHTED

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

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A B C D E F G		CA123R24\LCATR092\RESULTS1 OUTPUT - WORKSHEET D SHEET 8 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellicore [®] LCAT Rel: 1.0.4 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 3 - RESIDENCE LIN		RUN DATE: 22-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6825 FEET		TIME: 15:05			
0		Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
1		PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
2		SEG. NAME		PRIMARY		EXTENSION		SUB-	
3		EQPT						INTERFACE	
4		PLANT						TOTAL	
5		CODE						LOOP	
6		ITEM DESCRIPTION						WEIGHTED	
7		<u>SHARED RESOURCES</u>						TOTAL	
8		LAND		20C				\$0	
9		BUILDING		10C				\$0	
10		BLDG ENTRANCE CABLE		12C				\$0	
11		INTRABLDG CABLE		52C				\$0	
12		AERIAL CABLE (COPPER)		22C				\$0	
13		BURIED CABLE (COPPER)		45C				\$0	
14		UNDERGROUND (CU) CA.		5C				\$0	
15		CO EQPT - LOW CAP TERM		257C				\$0	
16		CO EQPT - LOW CAP CHAN		257C				\$0	
17		CO EQPT - HI CAP TERM		857C				\$0	
18		CO EQPT - HI CAP CHAN		857C				\$0	
19		CO EQPT - ANALOG SW		77C				\$0	
20		CO EQPT - DIGITAL SW		377C				\$0	
21		AERIAL CABLE (FIBER)		822C				\$0	
22		BURIED CABLE (FIBER)		845C				\$0	
23		UNDERGROUND (FO) CA.		85C				\$0	
24		CONNECTORS		57C				\$0	
25		MISC. COM EQP & PWR		57C				\$0	
26		POLE LINE		1C				\$0	
27		CONDUIT		4C				\$0	
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND		20C				\$0	
31		BUILDING		10C				\$0	
32		BLDG ENTRANCE CABLE		12C				\$0	
33		INTRABLDG CABLE		52C				\$0	
34		AERIAL CABLE (COPPER)		22C				\$0	
35		BURIED CABLE (COPPER)		45C				\$0	
36		UNDERGROUND (CU) CA.		5C				\$0	
37		CO EQPT - LOW CAP TERM		257C				\$0	
38		CO EQPT - LOW CAP CHAN		257C				\$0	
39		CO EQPT - HI CAP TERM		857C				\$0	
40		CO EQPT - HI CAP CHAN		857C				\$0	
41		CO EQPT - ANALOG SW		77C				\$0	
42		CO EQPT - DIGITAL SW		377C				\$0	
43		AERIAL CABLE (FIBER)		822C				\$0	
44		BURIED CABLE (FIBER)		845C				\$0	
45		UNDERGROUND (FO) CA.		85C				\$0	
46		CONNECTORS		57C				\$0	
47		MISC. COM EQP & PWR		57C				\$0	
48		POLE LINE		1C				\$0	
49		CONDUIT		4C				\$0	
50									
51		SPAN SUMMARY		\$0		\$0		\$0	
52									
53									
54									
55									

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A B C D E F G		LOOP COST ANALYSIS TOOL										Belcore [®]	
		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
		C:\123R24\LCATR092\RESULTS1										Issued: 7/31/95	
		OUTPUT - WORKSHEET D										STUDY YR: 1996	
		SHEET 9 of 10										TEST CASE: 1	
		COMPANY: CINCINNATI BELL TEL					CIRCUIT DESIGN: 6 FOMUX					RUN DATE: 22-Jan-97	
		CITY / AREA: CINCINNATI					LOOP SPAN DIVISION: ALL LOOP SPANS					TIME: 15:05	
		STATE / PROV: OHIO					SERVICE CLASS: BAND 3 - RESIDENCE LIN						
		JOB IDENT: CINCINNATI					TOTAL LOOP LENGTH: 6825 FEET						
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
1		PLANT NAME FEEDER DISTRIBUTION NETWORK											
2		SEG. NAME PRIMARY EXTENSION SUB- INTERFACE											
3		EQPT											
4		TOTAL LOOP											
5		WEIGHTED TOTAL LOOP											
6		PLANT CODE											
7		ITEM DESCRIPTION											
8		<u>SHARED RESOURCES</u>											
9		LAND 20C \$0 \$0											
10		BUILDING 10C \$0 \$0											
11		BLDG ENTRANCE CABLE 12C \$0 \$0											
12		INTRABLDG CABLE 52C \$0 \$0											
13		AERIAL CABLE (COPPER) 22C \$0 \$0											
14		BURIED CABLE (COPPER) 45C \$0 \$0											
15		UNDERGROUND (CU) CA. 5C \$0 \$0											
16		CO EQPT - LOW CAP TERM 257C \$0 \$0											
17		CO EQPT - LOW CAP CHAN 257C \$0 \$0											
18		CO EQPT - HI CAP TERM 857C \$0 \$0											
19		CO EQPT - HI CAP CHAN 857C \$0 \$0											
20		CO EQPT - ANALOG SW 77C \$0 \$0											
21		CO EQPT - DIGITAL SW 377C \$0 \$0											
22		AERIAL CABLE (FIBER) 822C \$0 \$0											
23		BURIED CABLE (FIBER) 845C \$0 \$0											
24		UNDERGROUND (FO) CA. 85C \$0 \$0											
25		CONNECTORS 57C \$0 \$0											
26		MISC. COM EQP & PWR 57C \$0 \$0											
27		POLE LINE 1C \$0 \$0											
28		CONDUIT 4C \$0 \$0											
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		SPAN SUMMARY \$0 \$0 \$0 \$0											
51													
52													
53													
54													
55													

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 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO PUBLIC

A
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C:\123R24 LCATR092\RESULTS1			LOOP COST ANALYSIS TOOL					Bellcore		
OUTPUT - WORKSHEET D			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4		
SHEET 10 of 10								Issued: 7/31/95		
COMPANY: CINCINNATI BELL TEL			CIRCUIT DESIGN: MELDED		FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI			LOOP SPAN DIVISION: ALL LOOP		SPANS		TEST CASE: 1			
STATE / PROV: OHIO			SERVICE CLASS: BAND 3 - RESIDENCE LIN				RUN DATE: 22-Jan-97			
JOB IDENT: CINCINNATI			TOTAL LOOP LENGTH: 6825 FEET				TIME: 15:05			
Technology Type Mix: 1.0000			UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY		
PLANT NAME			FEEDER		DISTRIBUTION NETWORK		TOTAL		WEIGHTED	
SEG. NAME			PRIMARY		EXTENSION		SUB-		TOTAL	
EQPT									LOOP	
PLANT									LOOP	
ITEM DESCRIPTION										
SHARED RESOURCES										
LAND			20C		\$ 0.00		\$ 0.00		\$ 0.0000	
BUILDING			10C		\$ 0.00		\$ 0.00		\$ 0.0000	
BLDG ENTRANCE CABLE			12C		\$ 0.00		\$ 0.00		\$ 0.0000	
INTRABLDG CABLE			52C		\$ 0.00		\$ 0.00		\$ 0.0000	
AERIAL CABLE (COPPER)			22C		\$ 0.00		\$ 0.00		\$ 0.0000	
BURIED CABLE (COPPER)			45C		\$ 0.00		\$ 0.00		\$ 0.0000	
UNDERGROUND (CU) CA.			5C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - LOW CAP TERM			257C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - LOW CAP CHAN			257C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - HI CAP TERM			857C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - HI CAP CHAN			857C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - ANALOG SW			77C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - DIGITAL SW			377C		\$ 0.00		\$ 0.00		\$ 0.0000	
AERIAL CABLE (FIBER)			822C		\$ 0.00		\$ 0.00		\$ 0.0000	
BURIED CABLE (FIBER)			845C		\$ 0.00		\$ 0.00		\$ 0.0000	
UNDERGROUND (FO) CA.			85C		\$ 0.00		\$ 0.00		\$ 0.0000	
CONNECTORS			57C		\$ 0.00		\$ 0.00		\$ 0.0000	
MISC. COM EQP & PWR			57C		\$ 0.00		\$ 0.00		\$ 0.0000	
POLE LINE			1C		\$ 0.00		\$ 0.00		\$ 0.0000	
CONDUIT			4C		\$ 0.00		\$ 0.00		\$ 0.0000	
DIRECT RESOURCES										
LAND			20C		\$ 0.00		\$ 0.00		\$ 0.0000	
BUILDING			10C		\$ 0.00		\$ 0.00		\$ 0.0000	
BLDG ENTRANCE CABLE			12C		\$ 0.00		\$ 0.00		\$ 2.4513	
INTRABLDG CABLE			52C		\$ 0.00		\$ 0.00		\$ 0.0000	
AERIAL CABLE (COPPER)			22C		\$ 0.00		\$ 0.00		\$ 7.0900	
BURIED CABLE (COPPER)			45C		\$ 0.00		\$ 0.00		\$ 4.9100	
UNDERGROUND (CU) CA.			5C		\$ 0.00		\$ 0.00		\$ 0.4400	
CO EQPT - LOW CAP TERM			257C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - LOW CAP CHAN			257C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - HI CAP TERM			857C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - HI CAP CHAN			857C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - ANALOG SW			77C		\$ 0.00		\$ 0.00		\$ 0.0000	
CO EQPT - DIGITAL SW			377C		\$ 0.00		\$ 0.00		\$ 0.0000	
AERIAL CABLE (FIBER)			822C		\$ 0.00		\$ 0.00		\$ 0.0000	
BURIED CABLE (FIBER)			845C		\$ 0.00		\$ 0.00		\$ 0.0000	
UNDERGROUND (FO) CA.			85C		\$ 0.00		\$ 0.00		\$ 0.0000	
CONNECTORS			57C		\$ 0.00		\$ 0.00		\$ 0.0000	
MISC. COM EQP & PWR			57C		\$ 0.00		\$ 0.00		\$ 0.0000	
POLE LINE			1C		\$ 0.00		\$ 0.00		\$ 1.6900	
CONDUIT			4C		\$ 0.00		\$ 0.00		\$ 0.1600	
SPAN SUMMARY					\$ 0.00		\$ 0.00		\$ 16.74	
									\$ 16.74	

C:\123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

22-Jan-97

Issued: 8/31/95

14:38

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE LINE STUDY 0 - 18000 FEET INT

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO YOU
your run is finished

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

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

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-COLLOC)
SERVICE CLASS: BAND 3 - RESIDENCE LINE

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

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 14:55

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		\$ 55.34		\$ 4.61
BURIED CABLE (COPPER)	45C	1.0000		\$ 164	0.3487		\$ 56.70		\$ 4.73
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		\$ 35	0.3807		\$ 13.22		\$ 1.10
CONDUIT	4C	1.0000			0.2521				
TOTALS			distshrinv	distdirinv					
			\$ 0	\$ 335		\$ 0.00	\$ 125.26	\$ 0.00	\$ 10.44
				\$ 335			\$ 125.26		\$ 10.44
			distshrinv			distann		distmrc	

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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CA1123R24/LCAT/CALC/DIST		LOOP COST ANALYSIS TOOL		Bellicore (R)	
DIST PLNT - WORKSHEET B		BASIC INVESTMENT WORKSHEET		LCAT	
Sheet 1 of 3		FACILITY TYPE : COPPER CABLE		Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT : SERVICE ACCESS		STUDY YR: 1996	
CITY/AREA: CINCINNATI				TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS : BAND 3 - RESIDENCE LINE		RUN DATE: 22-Jan-97	
				TIME: 14:55	
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	from invest: 0.2530		
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =		\$ 0.00			
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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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RATES PLAN

CAT123R24\LCAT\CALC\DIST			LOOP COST ANALYSIS TOOL						Bellcore ^(R)	
DIST. PLNT - WORKSHEET B			PROSPECTIVE AND ANNUAL COSTS WORKSHEET						LCAT	
Sheet 3 of 3			FACILITY TYPE : COPPER CABLE						Release : 1.0.4	
COMPANY : CINCINNATI BELL TEL.			CIRCUIT SEGMENT : SERVICE ACCESS						STUDY YR : 1996	
CITY / AREA : CINCINNATI			SERVICE CLASS : BAND 3 - RESIDENCE LINE						TEST CASE : 1	
STATE : OHIO									RUN DATE : 22-Jan-97	
									TIME : 14:55	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	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			0.2322					
TOTALS			bctshrinv bctdirinv			bctann		bctmrc		
			\$ 0 \$ 75			\$ 0.00 \$ 29.42		\$ 0.00 \$ 2.45		
			bctinvsv			bctann		bctmrc		
			\$ 75			\$ 29.42		\$ 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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C:\123R24\LCATCALC.DIST		LOOP COST ANALYSIS TOOL		Bellcore [®]	
DIST. PLNT - WORKSHEET B		BASIC INVESTMENT WORKSHEET		LCAT	
Sheet 1 of 3		FACILITY TYPE: COPPER CABLE		Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT: SERVICE ACCESS		STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 3 - RESIDENCE LINE		TEST CASE: 11	
STATE / PROV: OHIO				RUN DATE: 22-Jan-97	
				TIME: 14:55	

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURRENCE [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) = $\frac{\text{from length}}{0.0000}$
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = $\frac{\text{from invest.}}{0.2530}$ \$ 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 PAIR GAIN INVESTMENT AND MONTHLY COSTS

LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4	
CITY / AREA: CINCINNATI										STUDY YR: 1996	
STATE / PROV: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 22-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 14:55	
SERVICE CLASS: BAND 3 - RESIDENCE LINE											
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				
										\$ 0	\$ 75
										\$ 75	\$ 75
										activity	
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_PLNT - WORKSHEET B Sheet 3 of 3			LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET						Bellcore [®]	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS			1996 UNIT ANNUAL COSTS BY ACCOUNT			1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			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 [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	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	

bctshrinvs bctdirinv
 bctinvsv bctmrc

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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CA123R24LCATCALCDIST		LOOP COST ANALYSIS TOOL				Bellcore [®]	
DIST PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL.				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
STATE / PROV: OHIO		CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)				TEST CASE: 1	
		SERVICE CLASS: BAND 3 - RESIDENCE LINE				RUN DATE: 22-Jan-97	
						TIME: 14:55	
		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
		logic-14a				TOTAL	
		0				AVG. WEIGHTED	
		1.0000				INVESTMENT	
		6825				1996	
		1981.0				1997	

SHARED RESOURCES							
1	LAND	20C					\$ 0.00
2	BUILDING	10C					\$ 0.00
3	BLDG ENTRANCE CABLE	12C					\$ 0.00
4	INTRABLDG CABLE	52C					\$ 0.00
5	AERIAL CABLE (COPPER)	22C					\$ 0.00
6	BURIED CABLE (COPPER)	45C					\$ 0.00
7	UNDERGROUND (CU) CA.	5C					\$ 0.00
8	CO EQPT - P GAIN TERM	257C					\$ 0.00
9	CO EQPT - P GAIN CHAN	257C					\$ 0.00
10	CO EQPT - FO MUX TERM	857C					\$ 0.00
11	CO EQPT - FO MUX CHAN	857C					\$ 0.00
12	CO EQPT - ANALOG SW	77C					\$ 0.00
13	CO EQPT - DIGITAL SW	377C					\$ 0.00
14	AERIAL CABLE (FIBER)	822C					\$ 0.00
15	BURIED CABLE (FIBER)	845C					\$ 0.00
16	UNDERGROUND (FO) CA.	85C					\$ 0.00
17	CONNECTORS	57C					\$ 0.00
18	MISC. COM EQP & PWR	57C					\$ 0.00
19	POLE LINE	1C					\$ 0.00
20	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
21	LAND	20C					\$ 0.00
22	BUILDING	10C					\$ 0.00
23	BLDG ENTRANCE CABLE	12C					\$ 0.00
24	INTRABLDG CABLE	52C					\$ 0.00
25	AERIAL CABLE (COPPER)	22C		\$ 4.61			\$ 4.61
26	BURIED CABLE (COPPER)	45C		\$ 4.73			\$ 4.73
27	UNDERGROUND (CU) CA.	5C					\$ 0.00
28	CO EQPT - P GAIN TERM	257C					\$ 0.00
29	CO EQPT - P GAIN CHAN	257C					\$ 0.00
30	CO EQPT - FO MUX TERM	857C					\$ 0.00
31	CO EQPT - FO MUX CHAN	857C					\$ 0.00
32	CO EQPT - ANALOG SW	77C					\$ 0.00
33	CO EQPT - DIGITAL SW	377C					\$ 0.00
34	AERIAL CABLE (FIBER)	822C					\$ 0.00
35	BURIED CABLE (FIBER)	845C					\$ 0.00
36	UNDERGROUND (FO) CA.	85C					\$ 0.00
37	CONNECTORS	57C					\$ 0.00
38	MISC. COM EQP & PWR	57C					\$ 0.00
39	POLE LINE	1C		\$ 1.10			\$ 1.10
40	CONDUIT	4C					\$ 0.00
41	SPAN SUMMARY		\$ 10.44	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
42	AVG. WTD. SPAN SUMMARY		\$ 10.44	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
43	NOTE:	[sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					\$ 10.44

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C:\123R24\LCAT\CALC\CUTECH

RUN - SUB PRI

LAST UPDATE

22-Jan-97

14:40

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 3 (OHIO) RESIDENCE LINE STUDY 0 - 18000 FEET INTR

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKTS	0.1
CST METH	UN INCR	INV LEVEL	ANN COST

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

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET				CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS				LCAT Release: 1.0.4			
SUB_PRI - WORKSHEET				FACILITY TYPE: COPPER CABLE				Issue Date: 7/31/95			
Sheet 2 of 3				CIRCUIT SEGMENT: [MELDED GAUGE/S/ SCS - PRIMARY]				STUDY YR: 1995			
COMPANY: CINCINNATI BELL TEL.				SERVICE CLASS: BAND 3 - RESIDENCE LINE				TEST CASE: 1			
CITY / AREA: CINCINNATI								RUN DATE: 22-Jan-97			
STATE / PROV: OHIO								TIME: 14:58			
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	44.34	1		\$ 44	0.6000		\$ 74	
BURIED CABLE (COPPER)	45C	V	DIRECT	3.66	1		\$ 4	0.6000		\$ 6	
UNDERGROUND (CU) CA.	5C	V	DIRECT	5.72	1		\$ 9	0.6000		\$ 15	
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	18.70	1		\$ 18.70	1.0000		\$ 19	
CONDUIT	4C	F	DIRECT	7.51	1		\$ 8	1.0000		\$ 8	
TOTALS								\$ 0		\$ 121	
										\$ 121	

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C:\M23R24\LCAT\CALC\OUTECH			LOOP COST ANALYSIS TOOL						Bellcore (R)	
SUB_PRI - WORKSHEET			PROSPECTIVE AND ANNUAL COSTS 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: [MELEDED GAUGE/S/ SUB-PRIMARY]						TEST CASE: 1	
STATE / PROV: OHIO			SERVICE CLASS: BAND 3 - RESIDENCE LINE						RUN DATE: 22-Jan-97	
									TIME: 14:58	
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		\$ 74	0.4033		\$ 29.80		\$ 2.48	
13 BURIED CABLE (COPPER)	45C	1.0000		\$ 6	0.3467		\$ 2.12		\$ 0.18	
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 15	0.3663		\$ 5.32		\$ 0.44	
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		\$ 19	0.3807		\$ 7.12		\$ 0.59	
27 CONDUIT	4C	1.0000		\$ 8	0.2521		\$ 1.89		\$ 0.16	
28										
29	SUBTOTALS		\$ 0	\$ 121		\$ 0.00	\$ 46.25	\$ 0.00	\$ 3.85	
30										
31	TOTALS			\$ 121			\$ 46.25		\$ 3.85	
32				culpinvsv			culpac		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	THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.									
51										
52										
53										
54										
55										

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C:\123R24\LCAT\CALC\CUTECH		LOOP COST ANALYSIS TOOL				Bellcore [®]	
SUB_PR - 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 3 - RESIDENCE LINE				TEST CASE: 1	
						RUN DATE: 22-Jan-97	
						TIME: 14:56	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		0				TOTAL	
PLANT MIX		1.0000				AVG. WEIGHTED	
ACCT AVG.							
CODE LGTH		6825					
SEG LGTH		4844					
PLANT ITEM						4844	
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		\$ 2.48			\$ 2.48
34	BURIED CABLE (COPPER)	45C		\$ 0.18			\$ 0.18
35	UNDERGROUND (CU) CA.	5C		\$ 0.44			\$ 0.44
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	0.5	\$ 0.59			\$ 0.59
48	CONDUIT	4C	0.1	\$ 0.16			\$ 0.16
50	SPAN SUMMARY			\$ 3.85	\$ 0.00	\$ 0.00	\$ 3.85
51							
52	AVG. WTD. SPAN SUMMARY			\$ 3.85	\$ 0.00	\$ 0.00	\$ 3.85
53							
54	NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]						

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C:\123R24\LCAT\CALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE

22-Jan-97

14:43

LOOP COST ANALYSIS TOOL

Bellcore (TM)

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE LINE STUDY 0 - 18000 FEET INTRASTATE

CURRENT TEST PLAN: CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARBAND	#CIRTS
CST METH	UN INCR	UN LEVEL - AND 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: 1996																																																													
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE:																																																													
CIRCUIT DESIGN: T1C										DATE: 22-Jan-97																																																													
SERVICE CLASS: BAND 3 - RESIDENCE LINE										TIME: 09:00 PM																																																													
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI 6825 cur length 4844 cur star-length f = 0.125 pfactor																																																																							
CABLE COMPONENTS (NOTE 5)																																																																							
<table border="1"> <thead> <tr> <th>SEGMENT LENGTH IN FEET</th> <th>TYPE OF CABLE</th> <th>RELATIVE MIX OF TYPE OF CABLE</th> <th>EFFECTIVE LENGTH SUBSET BY TYPE INVEST. PER UNIT FOOT</th> <th>MELDED</th> <th>CABLE INVESTMENT PER CHAN</th> <th>WEIGHTED TERMINAL INVESTMENT [U]*DTC]</th> <th>AIR DRYER INVESTMENT PER PAIR</th> <th>DROP WIRE ADJUSTMENT PER PAIR</th> <th>WEIGHTED DROP WIRE INVESTMENT PER PAIR</th> </tr> <tr> <th>[A]</th> <th></th> <th>[B]</th> <th>[C=A*B*f]</th> <th>[D]</th> <th>[E=C*D]</th> <th>[U]*DTC]</th> <th>[E]*fctr]</th> <th>[E]*fctr]</th> <th>[U]*DTC]</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>AERIAL</td> <td>0.810000</td> <td>0.00</td> <td>0.022600</td> <td>\$ 0.00</td> <td></td> <td>\$ 0.00</td> <td></td> <td></td> </tr> <tr> <td></td> <td>ON</td> <td>BURIED</td> <td>0.040000</td> <td>0.00</td> <td>0.037800</td> <td>\$ 0.00</td> <td>\$ 0.00</td> <td></td> <td></td> </tr> <tr> <td></td> <td>COPPER CABLE DLC</td> <td>UNDERGRND</td> <td>0.150000</td> <td>0.00</td> <td>0.024000</td> <td>\$ 0.00</td> <td>\$ 0.00</td> <td></td> <td></td> </tr> <tr> <td></td> <td>24.00 GA. FACILITIES</td> <td></td> <td>1.000000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF CABLE	EFFECTIVE LENGTH SUBSET BY TYPE INVEST. PER UNIT FOOT	MELDED	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT [U]*DTC]	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]	[U]*DTC]	[E]*fctr]	[E]*fctr]	[U]*DTC]	0	AERIAL	0.810000	0.00	0.022600	\$ 0.00		\$ 0.00				ON	BURIED	0.040000	0.00	0.037800	\$ 0.00	\$ 0.00				COPPER CABLE DLC	UNDERGRND	0.150000	0.00	0.024000	\$ 0.00	\$ 0.00				24.00 GA. FACILITIES		1.000000						
SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF CABLE	EFFECTIVE LENGTH SUBSET BY TYPE INVEST. PER UNIT FOOT	MELDED	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT [U]*DTC]	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]	[U]*DTC]	[E]*fctr]	[E]*fctr]	[U]*DTC]																																																														
0	AERIAL	0.810000	0.00	0.022600	\$ 0.00		\$ 0.00																																																																
	ON	BURIED	0.040000	0.00	0.037800	\$ 0.00	\$ 0.00																																																																
	COPPER CABLE DLC	UNDERGRND	0.150000	0.00	0.024000	\$ 0.00	\$ 0.00																																																																
	24.00 GA. FACILITIES		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) = intdlcco \$ 0.00 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 51.57 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco \$ 12.14 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt \$ 51.57 DLC EQUIP INVEST. (CU LINE) = dlccol \$ 0.00 CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvt \$ 4.17 OTHER INVESTMENT inv / unit lgth: inv rtn fctr: POLE LINE FACTOR (PLf) = 0.0000 0.2530 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00 UGD CONDUIT FACTOR (UCf) = 0.0000 0.5165 CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) = \$ 0.00																																																																							
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) = \$ 15.42 MCE&P INVST. (CDLCMUX x MCEP) = \$ 11.23 MCE&P INVST. (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 INVST. (CU COMUX + MCEP) x LANDf = \$ 1.47 LAND INVST. ((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 INVST. (CDLCMUX + MCEP) x BLDGf = \$ 34.63 BLDG INVST. ((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 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 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.																																																																							

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LOOP COST ANALYSIS TOOL										Belcore [®]	
ACCOUNT 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: 1996	
FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
CIRCUIT DESIGN: C										DATE: 22-Jan-97	
SERVICE CLASS: BAND 3 - RESIDENCE LINE										TIME: 03:00 PM	
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	1.47	0			1.0000			
BUILDING	10C	F	SHARED	34.76	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	4.17	0			0.6000			
CO EQPT - P GAIN TERM	257C	F	DIRECT	79.13	0			0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT	172.79	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	11.23	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS											

NOTICE: THIS REPORT IS UNCLASSIFIED
 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO FCC

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 \$ 0
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 \$ 0
 =====
 FEED11Y

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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CA123R24\LCAT\ALC\UPRGN COLC PLANT - WORKSHEET 1 Sheet 3 of 3	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: 1C SERVICE CLASS: BAND 3 - RESIDENCE LINE	Bellcore LCAT Release: 1.0.4 Issue Date: 6/31/95 STUDY YR: 1996 TEST CASE: 1 DATE: 22-Jan-97 TIME: 03:00 PM
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PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED	DIRECT		SHARED	DIRECT	SHARED	DIRECT
			RESOURCES [M=K*L]	RESOURCES [M'=K'*L]		RESOURCES [P=M*N]	RESOURCES [P'=M'*N]	RESOURCES [R=P/12]	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

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\CUPRGN		LOOP COST ANALYSIS TOOL				Bellcore [®]	
CDLC PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT				STUDY YR: 1996	
STATE / PROV: OHIO		CIRCUIT DESIGN: 1 COPPER DIG LOOP CCR				TEST CASE: 1	
		SERVICE CLASS: BAND 3 - RESIDENCE LINE				DATE: 22-Jan-97	
						TIME: 03:00 PM	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
PLANT ITEM		BAND	M/X	AVG	LGTH	SEG LGTH	(SEE NOTE) TOTAL AVG. WEIGHTED INVESTMENT
		0	1.0000		6825	0	0
SHARED RESOURCES							
1	LAND	20C					\$ 0.00
2	BUILDING	10C					\$ 0.00
3	BLDG ENTRANCE CABLE	12C					\$ 0.00
4	INTRABLDG CABLE	52C					\$ 0.00
5	AERIAL CABLE (COPPER)	22C					\$ 0.00
6	BURIED CABLE (COPPER)	45C					\$ 0.00
7	UNDERGROUND (CU) CA.	5C					\$ 0.00
8	CO EQPT - P GAIN TERM	257C					\$ 0.00
9	CO EQPT - P GAIN CHAN	257C					\$ 0.00
10	CO EQPT - FO MUX TERM	857C					\$ 0.00
11	CO EQPT - FO MUX CHAN	857C					\$ 0.00
12	CO EQPT - ANALOG SW	77C					\$ 0.00
13	CO EQPT - DIGITAL SW	377C					\$ 0.00
14	AERIAL CABLE (FIBER)	822C					\$ 0.00
15	BURIED CABLE (FIBER)	845C					\$ 0.00
16	UNDERGROUND (FO) CA.	85C					\$ 0.00
17	CONNECTORS	57C					\$ 0.00
18	MISC. COM EQP & PWR	57C					\$ 0.00
19	POLE LINE	1C					\$ 0.00
20	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
21	LAND	20C					\$ 0.00
22	BUILDING	10C					\$ 0.00
23	BLDG ENTRANCE CABLE	12C					\$ 0.00
24	INTRABLDG CABLE	52C					\$ 0.00
25	AERIAL CABLE (COPPER)	22C					\$ 0.00
26	BURIED CABLE (COPPER)	45C					\$ 0.00
27	UNDERGROUND (CU) CA.	5C					\$ 0.00
28	CO EQPT - P GAIN TERM	257C					\$ 0.00
29	CO EQPT - P GAIN CHAN	257C					\$ 0.00
30	CO EQPT - FO MUX TERM	857C					\$ 0.00
31	CO EQPT - FO MUX CHAN	857C					\$ 0.00
32	CO EQPT - ANALOG SW	77C					\$ 0.00
33	CO EQPT - DIGITAL SW	377C					\$ 0.00
34	AERIAL CABLE (FIBER)	822C					\$ 0.00
35	BURIED CABLE (FIBER)	845C					\$ 0.00
36	UNDERGROUND (FO) CA.	85C					\$ 0.00
37	CONNECTORS	57C					\$ 0.00
38	MISC. COM EQP & PWR	57C					\$ 0.00
39	POLE LINE	1C					\$ 0.00
40	CONDUIT	4C					\$ 0.00
SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	0.00
AVG. WTD. SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	0.00
NOTE: [SUM(INV _{ACCT} * MUX _{MANLY})]							

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE

22-Jan-97

14:46

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 3 (OHIO) RESIDENCE LINE STUDY 0 - 18000 FEET INTRAST

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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LOOP COST ANALYSIS TOOL										Bellicore	
BASIC INVESTMENT WORKSHEET										LCAT Rev: 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 3 - RESID: SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 15:02	
C:\123R24\LCAT\CALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from star_tot: 4844 cur_sfdlength 0 cur_prilength 1979.04 wtdeqvmn SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA PLANT [B] [C=A*B/M] [D] EFFECTIVE LENGTH SUBSET BY TYPE INVEST. PER PAIR FOOT MLD CABLE DESIGN INVEST. PER PAIR FOOT											
fo3pri_seglength [A] 0 AERIAL 0.810000 0.00 0.193000 0.00 0.00 0.00 0.00 0.00 0.00 0.00											
CO TO HUB LINK ON BURIED 0.000000 0.00 0.000000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00											
FIBER OPTIC FACILITIES UNDERGRND 0.190000 0.00 0.222900 0.00 0.00 0.00 0.00 0.00 0.00 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) = intdlcr_ \$ 51.57 \$ 85.28 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco_ \$ 12.14 \$ 87.51 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcr_ \$ 51.57 \$ 85.28 FIBER MUX EQUIP. INV. (FO COMUX) = hubmuxcco_ \$ 2.35 \$ 19.62 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmuxcr_ \$ 2.35 \$ 18.49											
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.) = \$ 13.71 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77 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. = \$ 0.76 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98 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. = \$ 17.81 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = spf_ 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00 UNDERGROUND CONDUIT FACTOR (PLf) = fud_ 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 0.00											
LOOP TOPOLOGY 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 MULTIPLIED 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.											

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 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 3 - RES										LAST RUN: 22-Jan-97	
SERVICE LEVEL: NARBAND										TIME: 15.02	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT INVESTMENTS BY ACCOUNT											
1996 UNIT LOOP INVESTMENT EXCL UTILIZATION											
ADMIN. UTIL. LINE FILL											
1996 UNIT LOOP INVESTMENT INCL UTILIZATION											
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES	utilstart	SHARED RESOURCES	DIRECT RESOURCES	
LAND	20C	F	SHARED	[F]	[G]	[H=F*G]	[H'=F*G]		[J]	[K=H/J]	[K'=H'/J]
BUILDING	10C	F	SHARED	1.74	0			1.0000			
BLDG ENTRANCE CABLE	12C	---	---	40.90	0			1.0000			
INTRABLDG CABLE	52C	---	---					1.0000			
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
CO EQPT - LOW CAP TERM	257C	F	DIRECT	63.71	0			0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	172.79	0			0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	0			1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	0			1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00	0			1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00	0			1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT	0.00	0			0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00	0			0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.00	0			0.3300			
CONNECTORS	57C	V	DIRECT	0.00	0			1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	13.71	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS											
\$0											
\$0											
\$0											
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										Bellcore	
ANNUAL COSTS WORKSHEET										LCAT Rel: 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 3 - RE: SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 15.02	
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 SHARED RESOURCES fo3sixaset	1996 DIRECT RESOURCES fo3dcxaset	ANNUAL COST FACTOR acfstart	1996 SHARED RESOURCES	1996 DIRECT RESOURCES	1996 SHARED RESOURCES fo3sixaset	1996 DIRECT RESOURCES fo3dcxaset		
[PREVIOUS SHEET SUMMARY]	[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=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 - LOW CAP TERM	257C	1.0000			0.3861						
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3861						
CO EQPT - HI CAP TERM	857C	1.0000			0.3861						
CO EQPT - HI CAP CHAN	857C	1.0000			0.3861						
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			0.3861						
MISC. COM EQP & PWR	57C	1.0000			0.3861						
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		
				feed3sy			feed3ann		feed3mrc		
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\LCATR074\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore[®]TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION 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: 12-Jul-96
TIME: 08:50

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

FOOTNOTES

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

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C:\123R24\LCATR074\COSTMETH

HELP SCREEN**Belcore** (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 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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CM123R24\LCATR074\COSTMETH

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: 12-Jul-96

TIME: 08:50

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

FOOTNOTES

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

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C:\123R24\LCATR074\COSTMETH

HELP SCREEN

Bellcore (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

Field / Group Title	Valid Inputs	This field or grouping defines -
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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR074\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 09-Dec-96	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				17-Oct-96 01:27 PM	
STUDY NAME		1996 BAND 3 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 18000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 3 - RESIDENCE LINE		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		1	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
Type Percent Mix:					
100 FIBER IN THE LOOP					
0 COPPER DIG LOOP CXR					

PROVIDED TO RUC

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C:\123R24\LCATR074\CRITERIA		HELP SCREEN	Belcore [®]
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 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\LCATR074\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 3 - RESIDENCE LINE		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-96 TIME: 01:27 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 ?																	
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-connections are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?																	
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.																	
		VALID RESPONSE SET N or A S or P N, W or B 2 or 4 0 → 100 0 → 100 0 → 100 0 → 12000 For D 1, 2, 3, 4 0 → 15 C or A T or M 0 → 999																
		<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> <tr><td>100</td></tr> <tr><td>100</td></tr> <tr><td>100</td></tr> <tr><td>18000 Feet</td></tr> <tr><td>FLAT RATE</td></tr> <tr><td>0</td></tr> <tr><td>COST</td></tr> <tr><td>TOT INCR</td></tr> <tr><td>1</td></tr> <tr><td>RATES PLAN</td></tr> </table>			NEW	SWITCHED	NARBAND	2	100	100	100	18000 Feet	FLAT RATE	0	COST	TOT INCR	1	RATES PLAN
NEW																		
SWITCHED																		
NARBAND																		
2																		
100																		
100																		
100																		
18000 Feet																		
FLAT RATE																		
0																		
COST																		
TOT INCR																		
1																		
RATES PLAN																		

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C:\123R24\LCATR074\CRITERIA

HELP SCREEN

Bellcore[®]

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.

PRESS <Enter> KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR074\DESIGN		LOOP COST ANALYSIS TOOL		Bellcore®
INPUT - LOOP DESIGN Sheet 1 / 1		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS 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 3 - RESIDENCE LINE		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:53

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: <table style="width:100%;"> <tr><td>Weighting of Design #1</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #3</td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> <tr><td>Weighting of Design #4</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td>Weighting of Design #5</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td>Weighting of Design #6</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td colspan="2" style="text-align: right;">1.0000 ChkSum</td></tr> </table> FOR COPPER DLC DESIGNS: <table style="width:100%;"> <tr><td>Weighting of Design #1</td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td colspan="2" style="text-align: right;">1.0000 ChkSum</td></tr> </table> 'NA' DENOTES THAT THE CIRCUIT DESIGN PROBABLY DOES NOT APPLY TO THIS SET OF STUDY PARAMETERS.	Weighting of Design #1	0.0000	Weighting of Design #2	0.0000	Weighting of Design #3	1.0000	Weighting of Design #4	NA 0.0000	Weighting of Design #5	NA 0.0000	Weighting of Design #6	NA 0.0000	1.0000 ChkSum		Weighting of Design #1	1.0000	Weighting of Design #2	NA 0.0000	1.0000 ChkSum	
Weighting of Design #1	0.0000																				
Weighting of Design #2	0.0000																				
Weighting of Design #3	1.0000																				
Weighting of Design #4	NA 0.0000																				
Weighting of Design #5	NA 0.0000																				
Weighting of Design #6	NA 0.0000																				
1.0000 ChkSum																					
Weighting of Design #1	1.0000																				
Weighting of Design #2	NA 0.0000																				
1.0000 ChkSum																					

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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 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 *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR074\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
CABLE - SPAN - INV		LOOP FACILITY INPUT		LCAT Rel: 1.0.4	
SHEET 1 / 4		FIBER CABLE DATA		Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR: 1996	
CITY/AREA: CINCINNATI		INVESTMENT YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		LOOP STUDY YEAR: 1996		LAST UPDATE: 12-Jul-96	
		SERVICE CLASS: BAND 3 - RESIDENCE LINE		TIME: 08:55	

FIBER CABLE INVESTMENT AND CHARACTERISTICS

		FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	
CABLE TYPE MIX (DISTRIBUTION TO CODE):				
Proportion of FIBER cable installations that are				factors
	AERIAL	0.8100	0.0000	factors
	BURIED	0.0000	0.0000	factors
	UNDGRD	0.1900	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	\$ 0.1930
BURIED	0.0000
UNDGRD	0.2229

per fiber pair Foot
per fiber pair Foot
per fiber pair Foot

FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT

Average Unit Investment for FIBER cable,
Installed as

AERIAL	\$ 0.1930	\$ 0.0000
BURIED	0.0000	0.0000
UNDGRD	0.2229	0.0000

per fiber pair Foot
per fiber pair Foot
per fiber pair Foot

(Fiber Hub to Remote Terminal)

(Remote Terminal to Service Point)

CA123R24 LCATR074 FACILITY		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN INV SHEET 1A 14		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE LINE				LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:55	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO							
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE							
Cable Sheath Sizes			Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size				
CAPACITY	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\LCATR074\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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

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

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PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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C:\123R24\LCAT074\FACILITY				LOOP COST ANALYSIS TOOL				Bellcore (P)	
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 3 - RESIDENCE LINE				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:55	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS									
Cable Gauge Mix :		<u>GAUGE</u>	<u>FEEDER SEGMENT</u>	<u>DISTRIBUTION SEGMENT</u>	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) ,				
		22 GA.	0.0000	0.0000	If not, Update N				
Cable Type Mix, By Gauge :					<u>GAUGE</u>	<u>FEEDER SEGMENT</u>	<u>DISTRIBUTION SEGMENT</u>		
The Proportion of					Average Unit				
Copper Cable that is					Investment for				
		26 GA.	AERIAL	0.8100	0.5800		AERIAL	\$ 0.0113	0.0418
			BURIED	0.0400	0.4200		BURIED	\$ 0.0189	0.0658
			UNDGRND	0.1500	0.0000		UNDGRND	\$ 0.0120	0.0000
		24 GA.	AERIAL	0.8100	0.5800		AERIAL	\$ 0.0113	0.0418
			BURIED	0.0400	0.4200		BURIED	\$ 0.0189	0.0658
			UNDGRND	0.1500	0.0000		UNDGRND	\$ 0.0120	0.0000
		22 GA.	AERIAL	0.0000	0.0000		AERIAL	\$ 0.0000	0.0000
			BURIED	0.0000	0.0000		BURIED	\$ 0.0000	0.0000
			UNDGRND	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.

CA1123R24\LCAT074\FACILITY	LOOP COST ANALYSIS TOOL	Bellcore
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 3 - RESIDENCE LINE	LAST UPDATE: 12-Jul-96 TIME: 08:55

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: =>	26 GA.			24 GA.			22 GA.		
			INDEX	AERIAL	BURIED	UNGRD	AERIAL	BURIED	UNGRD	AERIAL	BURIED	UNGRD
40	Copper Cable	20 pr	\$									
50	Copper Cable	25 pr	\$									
60	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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C:\123R24\LCATR074\FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

Bellcore

LCAT Rel : 1.0.4
Issued : 07/31/96

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LCAT

INPUT SCREEN

Page -2-

RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL.
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C:\123R24\LCATR074\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 12-Jul-96
TIME: 08:55COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 3 - RESIDENCE LINE

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.	0.580000	\$ 0.041800	0.1500	0.087000	\$ 0.008270
BURIED @ 26 GA.	0.420000	\$ 0.068800	0.1500	0.063000	\$ 0.010320
UNDGRND @ 26 GA.	0.000000	\$ 0.000000	0.1500	0.000000	\$ 0.000000
AERIAL @ 24 GA.	0.580000	\$ 0.041800	0.8500	0.493000	\$ 0.035530
BURIED @ 24 GA.	0.420000	\$ 0.068800	0.8500	0.361000	\$ 0.058480
UNDGRND @ 24 GA.	0.000000	\$ 0.000000	0.8500	0.000000	\$ 0.000000
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	0.580000	
BURIED	0.420000	
UNDERGRND	0.000000	

Check = 1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
[G=sum(E*TYPE)]		[H=F*TYPE / sum(F*TYPE)]	
\$ 0.041800		\$ 0.580000	
\$ 0.068800		\$ 0.420000	
\$ 0.000000		-	

Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR074\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore (R)	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A			LCAT Ver: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		FOR			Issue Date: 07/31/95	
CITY / AREA: CINCINNATI		FACILITY TYPE: COPPER CABLE			STUDY YR: 1995	
STATE/PROV: OHIO		DESIGN TYPE: SUBFEEDER SEGMENT			TEST CASE: 1995	
		SERVICE CLASS: BAND 3 - RESIDENCE LINE			DATE: 1	
					LAST UPDATE: 12-Jul-95	
					TIME: 08:55	

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fd)	PER FOOT INVESTMENT (pfi...fd)	CABLE GAUGE MIX (copper...fd)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:					
AERIAL @ 26 GA.	[A] 0.810000	[B] \$ 0.011300	[C] 0.1500	[D=A*C] 0.121500	[E=B*C] \$ 0.001695
BURIED @ 26 GA.	0.040000	\$ 0.018900	0.1500	0.000000	\$ 0.002835
UNDGRND @ 26 GA.	0.150000	\$ 0.012000	0.1500	0.022500	\$ 0.001800
AERIAL @ 24 GA.	0.810000	\$ 0.011300	0.8500	0.688500	\$ 0.009605
BURIED @ 24 GA.	0.040000	\$ 0.018900	0.8500	0.034000	\$ 0.016065
UNDGRND @ 24 GA.	0.150000	\$ 0.012000	0.8500	0.127500	\$ 0.010200
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:		
AERIAL	[F=sum(Dtype)]	0.810000
BURIED		0.040000
UNDERGRND		0.150000
		Check = 1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
[G=sum(Etype)]	
	\$ 0.011300
	\$ 0.018900
	\$ 0.012000

FOOTNOTES

--- TABLE 6 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
[H=Ftype / sum(Ftype)]	
	\$ 0.952941
	\$ 0.047059
Check = 1.000000	

CA123R24LCATR074/FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]
TABLE - SPAN_INV SHEET 3 / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE LINE		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:55
<u>COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS</u>				
<u>FOR DLC SYSTEMS ON COPPER LOOPS</u>				
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 (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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C:\123R24\LCATRD74\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Belcore®
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 : $pgfactor = (\# \text{ of } xmsnpr + \# \text{ of } suptpr) / vgcheqv$

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C:\123R24\LCATR074\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Belcore (R)
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Rel: 1.0.2 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		STUDY YR: 1996 TEST CASE: 1996 DATE: 1
		SERVICE CLASS: BAND 3 - RESIDENCE LINE		LAST UPDATE: 12-Jul-96 TIME: 08:55
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		
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT
DESCRIPTION	2 * (PF1cga) [D]	(RPTR cgg) [E=C]	(ADLCPF1cgg) [F=D+E]	(ADLCPF1c) [F=D+E]
AERIAL @ 26 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600
BURIED @ 26 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800
UNDGRND @ 26 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000
AERIAL @ 24 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600
BURIED @ 24 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800
UNDGRND @ 24 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000
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\LCATR074\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)									
TABLE - SPAN_INV SHEET 4 / 4		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR		LCAT Rel: 1.0.4 Issued: 07/31/95									
COM. 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 3 - RESIDENCE LINE		LAST UPDATE: 12-Jul-96 TIME: 08:55									
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"> <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"> <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"> <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 ? (Y/N)	N		
Aerial Wire Drops	0.0000												
Buried Wire Drops	0.0000												
Bldg Entrance Cable	1.0000												
Aerial Coax/Wire Drops	0.0000												
		Per Unit Installation.....	<table border="1"> <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	\$ 0.00												
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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\\LCAT\074\FACILITY
SPAN_INV
'4

HELP SCREEN

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

terma These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network
termb 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
bdropinv pair installation investment.

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.

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C:\123R24\LCATR092\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 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 17-Jan-97 TIME : 15:22
COMPANY : CINCINNATI BELL TEL. CITY / AREA : CINCINNATI STATE / PROV : OHIO		INVESTMENT YEAR : 1996 STUDY YEAR : 1996 SERVICE CLASS: BAND 3 - RESIDENCE LINE		

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	0.4583
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	0.3458
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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CA123R24\LCATR074\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 3 - RESIDENCE LINE				LAST UPDATE: 12-Jul-96 08:56	
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)							
		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	\$ 87.51	\$ 12.14	\$ 85.28	\$ 51.57	
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 85.28	\$ 51.57	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement		\$ 19.82		\$ 2.35	\$ 18.49	\$ 2.35	
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							\$ 8.33
[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

BellcoreTM

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 DSX
 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**

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C:\123R24\LCATR074\LOADING		LOOP COST ANALYSIS TOOL		Bellcore ^(R)
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 3 - RESIDENCE LIN		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 08:57
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 Hut	1.0000	
		Comm. Svc. Cab.	1.0000	

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore[®]**

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.

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C:\123R24\LCATR074\LOADING		LOOP COST ANALYSIS TOOL		Bellcore ^(R)																																																																		
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 3 - RESIDENCE LINE		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 09:57																																																																		
SEGMENT DISTRIBUTION FEEDER POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">②</th> <th style="text-align: center;">use DEFAULT</th> </tr> </thead> <tbody> <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> </tbody> </table> CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.5165</th> <th style="text-align: center;">0.5165</th> </tr> </thead> <tbody> <tr> <td>Copper Cable Conduit Investment Factor</td> <td></td> <td></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: The Cable PFI is being Adjusted for DW ? NO <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Aerial Cable</td> <td></td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> <td></td> </tr> </tbody> </table> use DEFAULT ① ② for: CENT. OFC. REMOTE SITE LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or ALL ①</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;"> <tbody> <tr> <td>Other or ALL ①</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;"> <tbody> <tr> <td>Other or ALL ①</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>						②	use DEFAULT	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				0.5165	0.5165	Copper Cable Conduit Investment Factor			Copper Cable Conduit Unit Investment			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			Aerial Cable			Buried Cable			Underground Cable			Other or ALL ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or ALL ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or ALL ①	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

BellcoreTM

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	cpifi	_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	fpifi	_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.
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CA123R24\LCATR074\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 3 - RESIDENCE LINE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 15-Oct-96 TIME : 08:46																		
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 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;"> <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> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td style="text-align: right;">6825.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td style="text-align: right;">1981.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td style="text-align: right;">300.0</td> </tr> <tr> <td>PRIMARY</td> <td style="text-align: right;">4544.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR	TOTAL LOOP	6825.0	DISTRIBUTION	1981.0	SUB-PRIMARY	300.0	PRIMARY	4544.0	PRIMARY-EXTENSION	
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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 6825.0		LAST 1.0000 1.0000 Hint																				

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INPUT - PLANT_CHAR.		LOOP FACILITY INPUT		LCAT Rel : 1.0.4	
Sheet 1 / 1		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		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 3 - RESIDENCE LINE		LAST UPDATE : 16-Oct-96	
				TIME : 08:46	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
LOOP LENGTH ① 6825 FEET					
DROP DISTRIBUTION FEEDER ② ③ ④					
1981 FEET 4844 FEET					
ON SUB-PRIMARY EXTENSION PRIMARY ⑤ ⑥ ⑦ ⑧					
FIBER DISTRIBUTION FIBER HUB					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER) END OFFICE					

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C:\123R24\LCATR074\SPAN		LOOP COST ANALYSIS TOOL		Bellcore ®	
INPUT - PLANT_CHAR. Sheet 1 of 2		LOOP FACILITY INPUT <u>HELP SCREEN</u>		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 transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix 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 *****					
PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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CA123R24\LCAT074\SPAN		LOOP COST ANALYSIS TOOL	Belcore [®]
INPUT = PLANT_CRAI Sheet 2 of 2		HELP SCREEN	LCAT Rel: 1.0.4 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 Ref: 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 3 - RESIDENCE LINE				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:46	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
	CAPACITY	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT
	[C]	[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:				EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT:			
AERIAL FIBER SUBTOTAL		0		AERIAL FIBER SUBTOTAL		0.0	
BURIED FIBER SUBTOTAL		0		BURIED FIBER SUBTOTAL		0.0	
UNOGRD FIBER SUBTOTAL		0		UNOGRD FIBER SUBTOTAL		0.0	
FIBER SUBTOTAL		0		FIBER SUBTOTAL		0.0	

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C:\123R24\LCATR074\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (TM)			
PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996				STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 16-Oct-96			
		SERVICE CLASS: BAND 3 - RESIDENCE LINE				TIME: 08:46			
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B					
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E] WKSH A / [F] WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B									
For these sizes ...		CAPACITY [C]	idx	AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
				[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	
				Total		Total		Total	

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PLANT CHAR - WORKSHEET 3B 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. CITY / AREA: CINCINNATI STATE: OHIO			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:46		
NETWORK CIRCUIT LAYOUT STUDIES			WORKSHEET B						SERVICE CLASS: BAND 3 - RESIDENC		
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES	CAPACITY		26 GA.			24 GA.			22 GA.		
	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\LCATR074\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 3 - RESIDENC			STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 16-Oct-96 TIME: 08:48					
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES		26 GA.			24 GA.			22 GA.		
CAPACITY TDX		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
										0.0
										dstacprf
										0.0
										dstbcprf
										0.0
										dstucprf
										0.0

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C:\123R24\LCATR074\SPAN		LOOP COST ANALYSIS TOOL										Bellcore	
PLANT CHAR - WORKSHEET 4B Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR										LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENC										STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 16-Oct-96 TIME: 08:48	
NETWORK CIRCUIT LAYOUT STUDIES												WORKSHEET B	
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT													
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.				
	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		\$ 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		\$ 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		\$ 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		\$ 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		\$ 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		\$ 0.00
AERIAL CABLE SUBTOTAL			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
BURIED CABLE SUBTOTAL													
UNDGRD CABLE SUBTOTAL													

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C:\123R24\LCATR074\SPAN		LOOP COST ANALYSIS TOOL						Bellcore [®]		
INPUT - 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: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE LINE						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:46		
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL		LEVEL OF SERVICE: <u>NARBAND</u>								
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE	PROTECTION	WEIGHTED
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL	n: 1	EQUIVALENT
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE	[E]	CHANNELS
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	[SLM]	[F]	PER FO PAIR
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 BRDBAND) TIMES (2 for Unidirectional and 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: 16-Oct-96

TIME: 08:46

WORKSHEET DS

DIGITAL SIGNAL TABLE (digital)						
SELECT	MODE	HIERARCHY	BNDWDTH	DS1MULT	DS3MULT	VEG
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
0	1	2	3	4	5	6
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: 16-Oct-96

TIME: 08:46

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE
WORKSHEET F

[A] BAND NUMBER [C]	DISTANCE INCREMENTS: [B] 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)]	[R] UNIT MILE/FEET CONSTANT: 1320 TOTAL AIR FEET [F=A*C*K]	ROUTE TO AIR RATIO: 1.539947 LOOP LENGTH @ MIDPOINT [G (see note)]	WORKING FEET @ MIDPOINT [H=G*R]
1		0			0
2		0			0
3		0			0
4		0			0
5		0			0

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

ERROR MESSAG 0

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**OHIO ONLY
3 Geographic Areas**

07/26/96
Revised

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
Band 1							
1	0-12,000	6,081	1,103	7,184	5,765	638	6,403
2	# Of Entries	107			255		
3	12,001-INFINITY	14,881	2,346	17,226	13,630	2,046	15,677
4	# Of Entries	53			38		
5	Ratio						
6	0-12,000	0.5744			0.7433		
7	12,001-INFINITY	0.4256			0.2567		
		1.0000			1.0000		
Band 2							
8	0-14,000	6,697	1,836	8,534	5,698	1,013	6,711
9	# Of Entries	69			90		
10	14,001-INFINITY	19,582	2,699	22,282	21,785	1,989	23,774
11	# Of Entries	70			74		
12	Ratio	0.4964			0.5488		
13	0-14,000	0.5036			0.4512		
14	14,001-INFINITY	1.0000			1.0000		
Band 3							
15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	56			30		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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A
B
C
D
E
F
GCA123R24\LCATR093\RESULTS1
OUTPUT - WORKSHEET D
SHEET 6 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellicore (R)

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:42COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 3 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 28127 FEET

Circuit Design Mix: 1.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TOTAL LOOP	WEIGHTED TOTAL LOOP
PLANT NAME	SEG. NAME	PRIMARY	EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE		
EQPT	CODE							
PLANT								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.03		\$ 0.00	\$ 0.00		\$ 0.03	\$ 0.03
BUILDING	10C	\$ 1.00		\$ 0.00	\$ 0.00		\$ 1.00	\$ 1.00
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	\$ 0.44		\$ 0.00	\$ 0.00		\$ 0.44	\$ 0.44
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		\$ 0.15	\$ 11.23		\$ 11.38	\$ 11.38
BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.01	\$ 11.51		\$ 11.52	\$ 11.52
UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.03	\$ 0.00		\$ 0.03	\$ 0.03
CO EQPT - LOW CAP TERM	257C	\$ 2.94		\$ 0.00	\$ 0.00		\$ 2.94	\$ 2.94
CO EQPT - LOW CAP CHAN	257C	\$ 7.98		\$ 0.00	\$ 0.00		\$ 7.98	\$ 7.98
CO EQPT - HI CAP TERM	857C	\$ 0.73		\$ 0.00	\$ 0.00		\$ 0.73	\$ 0.73
CO EQPT - HI CAP CHAN	857C	\$ 1.23		\$ 0.00	\$ 0.00		\$ 1.23	\$ 1.23
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	\$ 0.14		\$ 0.00	\$ 0.00		\$ 0.14	\$ 0.14
BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.03		\$ 0.00	\$ 0.00		\$ 0.03	\$ 0.03
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	\$ 0.03		\$ 0.04	\$ 2.68		\$ 2.75	\$ 2.75
CONDUIT	4C	\$ 0.02		\$ 0.01	\$ 0.00		\$ 0.03	\$ 0.03
SPAN SUMMARY		\$ 14.59	\$ 0.00	\$ 0.24	\$ 25.42	\$ 2.45	\$ 42.70	\$ 42.70
							\$ 42.70	

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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore	
	PROSPECTIVE INVESTMENT SUMMARY REPORT							LCAT Rel: 1.0.4 Issued: 7/31/95	
0	CA123R24\LCATR093\RESULTS1							STUDY YR: 1996	
1	OUTPUT - REPORT D							TEST CASE: 1	
2	SHEET 1 of 1							RUN DATE: 22-Jan-97	
3	COMPANY: CINCINNATI BELL TEL							TIME: 15:42	
4	CITY / AREA: CINCINNATI								
5	STATE / PROV: OHIO								
6	JOB IDENT: CINCINNATI								
7	CIRCUIT DESIGN: TOTAL TECHNOLOGIES								
8	LOOP SPAN DIVISION: ALL LOOP SPANS								
9	SERVICE CLASS: BAND 3 - RESIDENCE LIN								
10	TOTAL LOOP LENGTH: 28127 FEET								
11	Loop Span Set Weighting: 1								
12	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							WEIGHTED	
13	PLANT NAME							TOTAL	
14	SEG. NAME							LOOP	
15	EQPT								
16	CODE								
17	ITEM DESCRIPTION								
18	SEG. LGTH.								
19	SHARED RESOURCES								
20	LAND	20C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0337	
21	BUILDING	10C	\$ 1.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.0010	
22	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
23	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
24	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
26	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
27	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
28	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
29	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
30	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
31	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
32	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
33	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
35	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
36	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
37	MISC. COM EQP & PWR	57C	\$ 0.44	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.4433	
38	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
39	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
40	DIRECT RESOURCES								
41	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
42	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
43	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513	
44	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
45	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 11.23	\$ 0.00	\$ 11.3800	
46	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 11.51	\$ 0.00	\$ 11.5200	
47	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.0300	
48	CO EQPT - LOW CAP TERM	257C	\$ 2.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.9436	
49	CO EQPT - LOW CAP CHAN	257C	\$ 7.98	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.9833	
50	CO EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.7268	
51	CO EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.2325	
52	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
53	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
54	AERIAL CABLE (FIBER)	822C	\$ 0.14	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.1369	
55	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
56	UNDERGROUND (FO) CA.	85C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0334	
57	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
58	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
59	POLE LINE	1C	\$ 0.03	\$ 0.00	\$ 0.04	\$ 2.68	\$ 0.00	\$ 2.7543	
60	CONDUIT	4C	\$ 0.02	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.0264	
61	SPAN SUMMARY		\$ 14.59	\$ 0.00	\$ 0.24	\$ 25.42	\$ 2.45	\$ 42.70	
62								\$ 42.70	

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C:\123R24\LCATR093\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 3 (OHIO) RESIDENCE LINE STUDY 18001 FEET - INFINITY INTRAST

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	ANNCOST
			TIME

....your report is ready for viewing

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CA123R24\LCATR093\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 1 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN:		1 CDLC		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION:		ALL LOOP SPANS		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS:		BAND 3 - RESIDENCE LIN		RUN DATE: 22-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH:		28127 FEET		TIME: 15:42	
Circuit Design Mix: [1.0000]		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	LOOP	LOOP
EQPT							
PLANT							
CODE							
ITEM DESCRIPTION							
SHARED RESOURCES							
LAND	20C	\$ 0.03		\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.03
BUILDING	10C	\$ 0.85		\$ 0.00	\$ 0.00	\$ 0.85	\$ 0.85
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	\$ 0.36		\$ 0.00	\$ 0.00	\$ 0.36	\$ 0.36
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	\$ 2.95		\$ 0.15	\$ 11.23	\$ 14.33	\$ 14.33
BURIED CABLE (COPPER)	45C	\$ 0.21		\$ 0.01	\$ 11.51	\$ 11.73	\$ 11.73
UNDERGROUND (CU) CA.	5C	\$ 0.74		\$ 0.03	\$ 0.00	\$ 0.77	\$ 0.77
CO EQPT - LOW CAP TERM	257C	\$ 3.66		\$ 0.00	\$ 0.00	\$ 3.66	\$ 3.66
CO EQPT - LOW CAP CHAN	257C	\$ 7.98		\$ 0.00	\$ 0.00	\$ 7.98	\$ 7.98
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	\$ 0.70		\$ 0.04	\$ 2.68	\$ 3.42	\$ 3.42
CONDUIT	4C	\$ 0.19		\$ 0.01	\$ 0.00	\$ 0.20	\$ 0.20
SPAN SUMMARY		\$ 17.67	\$ 0.00	\$ 0.00	\$ 25.42	\$ 45.78	\$ 45.78
CIRCUIT DESIGN SUMMARY						\$ 45.78	

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C:\123R24\LCATR093\RESULTS1 OUTPUT - WORKSHEET D SHEET 2 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore®	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 CDLC		LCAT Rel: 1.0.4			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		Issued: 7/31/95			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE LIN		STUDY YR: 1996			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 28127 FEET		TEST CASE: 1			
				DATE: 22-Jan-97			
				TIME: 15:42			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					
	PLANT NAME	PRIMARY	FEEDER	SUB-	DISTRIBUTION NETWORK	TOTAL LOOP	
	SEG. NAME				INTERFACE	WEIGHTED TOTAL LOOP	
	EQPT						
	CODE						
	PLANT						
	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 - P GAIN TERM	257C				\$0	
	CO EQPT - P GAIN CHAN	257C				\$0	
	CO EQPT - FO MUX TERM	857C				\$0	
	CO EQPT - FO MUX 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	
	CIRCUIT DESIGN SUMMARY					\$0	

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A
B
C
D
E
F
GCA123R24\LCATR093\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 28127 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:42

Technology Type Mix : 0.0000		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY	
PLANT NAME		PRIMARY	FEEDER	SUB-	DISTRIBUTION NETWORK		TOTAL	WEIGHTED
SEG. NAME					INTERFACE		LOOP	TOTAL
EQPT								LOOP
CODE								
PLANT								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0000
BUILDING	10C	\$ 0.85	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.85	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.36	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.36	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 2.95	\$ 0.00	\$ 0.15	\$ 11.23	\$ 0.00	\$ 14.33	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.21	\$ 0.00	\$ 0.01	\$ 11.51	\$ 0.00	\$ 11.73	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.74	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.77	\$ 0.0000
CO EQPT - P GAIN TERM	257C	\$ 3.66	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.66	\$ 0.0000
CO EQPT - P GAIN CHAN	257C	\$ 7.98	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.98	\$ 0.0000
CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.70	\$ 0.00	\$ 0.03	\$ 2.68	\$ 0.00	\$ 3.42	\$ 0.0000
CONDUIT	4C	\$ 0.19	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.20	\$ 0.0000
SPAN SUMMARY		\$ 17.67	\$ 0.00	\$ 0.22	\$ 25.42	\$ 2.45	\$ 45.78	\$ 0.00
TECHNOLOGY DESIGN SUMMARY							\$ 45.78	

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LOOP COST ANALYSIS TOOL										Bellicore [®]	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
C:\123R24\LCATR093\RESULTS1										Issued: 7/31/95	
OUTPUT - WORKSHEET D										STUDY YR: 1996	
SHEET 4 of 10										TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL										CIRCUIT DESIGN: 1 FOMUX	
CITY / AREA: CINCINNATI										LOOP SPAN DIVISION: ALL LOOP SPANS	
STATE / PROV: OHIO										SERVICE CLASS: BAND 3 - RESIDENCE LIN	
JOB IDENT: CINCINNATI										TOTAL LOOP LENGTH: 28127 FEET	
										RUN DATE: 22-Jan-97	
										TIME: 15:42	
Circuit Design Mix: 0.0000 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 CODE											
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		\$0	
										\$0	

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										Bellcore (R)															
C:\123R24\LCATR093\RESULTS1 OUTPUT - WORKSHEET D SHEET 5 of 10										COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI										CIRCUIT DESIGN: 2 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - RESIDENCE LIN TOTAL LOOP LENGTH: 28127 FEET		LCAT Rel: 1.0.4 Issued: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 15:42					
Circuit Design Mix: 0.0000										UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY										TOTAL		WEIGHTED					
PLANT NAME										FEEDER										DISTRIBUTION NETWORK		TOTAL LOOP		TOTAL LOOP			
SEG. NAME										PRIMARY										EXTENSION		SUB-		INTERFACE			
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	
																								\$0		\$0	

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C:\123R24\LCATR093 RESULTS1 OUTPUT - WORKSHEET D SHEET 7 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore [®] LCAT Rel: 1.0.4 Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 4 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - RESIDENCE LIN TOTAL LOOP LENGTH: 28127 FEET		STUDY YR: 1996 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 15:42			
Circuit Design Mix: 0.0000		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 CODE						
	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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A B C D E F G		C:\123R24\LCATR093\RESULTS1 OUTPUT - WORKSHEET D SHEET 8 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore [®] LCAT Rel: 1.0.4 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 3 - RESIDENCE LIN		RUN DATE: 22-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 28127 FEET		TIME: 15:42			
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	\$0	
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C:\123R24\LCATR093\RESULTS1		LOOP COST ANALYSIS TOOL					Bellicore ^(R)	
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 3 - RESIDENCE LIN					RUN DATE: 22-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 28127 FEET					TIME: 15:42	
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED	
PLANT NAME		FEEDER					TOTAL	
SEG. NAME		DISTRIBUTION NETWORK					TOTAL	
EQPT		INTERFACE					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

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55CA123R24\LCAT093\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: 22-Jan-97
TIME: 15:42COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH: 28127 FEETTechnology Type Mix: 1.0000 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY
PLANT NAME FEEDER DISTRIBUTION NETWORK
SEG. NAME PRIMARY EXTENSION SUB- INTERFACE
EQPT
CODEPLANT
ITEM DESCRIPTION**SHARED RESOURCES**

PLANT	ITEM DESCRIPTION	CODE	PRIMARY	EXTENSION	SUB-	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
8	LAND	20C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0337
9	BUILDING	10C	\$ 1.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.00	\$ 1.0010
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	MISC. COM EQP & PWR	57C	\$ 0.44	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.4433
26	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000

DIRECT RESOURCES

PLANT	ITEM DESCRIPTION	CODE	PRIMARY	EXTENSION	SUB-	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 11.23	\$ 11.38	\$ 11.3800
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 11.51	\$ 11.52	\$ 11.5200
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.03	\$ 0.0300
37	CO EQPT - LOW CAP TERM	257C	\$ 2.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.94	\$ 2.9436
38	CO EQPT - LOW CAP CHAN	257C	\$ 7.98	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.98	\$ 7.9833
39	CO EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.73	\$ 0.7268
40	CO EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.23	\$ 1.2325
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.14	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.14	\$ 0.1369
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0334
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.03	\$ 0.00	\$ 0.04	\$ 2.68	\$ 2.75	\$ 2.7543
49	CONDUIT	4C	\$ 0.02	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.03	\$ 0.0264

SPAN SUMMARY \$ 14.59 \$ 0.00 \$ 0.24 \$ 25.42 \$ 2.45 \$ 42.70 \$ 42.70

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CH123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

22-Jan-97

14:57

LOOP COST ANALYSIS TOOL

Release: 1.0.4

Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE LINE STUDY 18001 FEET - INFIN

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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CA1123R24:LCATCALCADI
DIST_PLNT - WORKSHEET A
Sheet 1 of 3

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 3 - RESIDENCE LINE

Bellicore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:34

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

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM - TABLE 2 - RELATIVE MIX OF TYPE OF CA. 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*fcfr]	[F=E*fcfr]	
4826.0	AERIAL	0.580000	2799.1	0.041800	117.00		0.00	0.00	
CONSIDERS:	BURIED	0.420000	2026.9	0.068800	139.45		0.00	0.00	
MELDED COPPER CABLE	UNDERGRND	0.000000	0.0	0.000000	0.00		0.00	0.00	
Check =		1.000000	4826.0						
<u>OUTSIDE PLANT LOADINGS</u>		(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							
<u>OTHER INVESTMENT</u>									
inv / unit lgth:		inv rtrn fcfr:							
POLE LINE FACTOR (PLf) = 0.0000		0.2530							
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 84.58									
UG CONDUIT FACTOR (UCf) = 0.0000		0.5165							
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) = \$ 0.00									
<u>FOOTNOTES</u>									
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 3 of 3

COMPANY: CINCINNAT BELL TEL.
CITY / AREA: CINCINNAT
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-COLLOC)
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 6/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:34

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		\$ 334	0.4033		\$ 134.82		\$ 11.23
BURIED CABLE (COPPER)	45C	1.0000		\$ 396	0.3467		\$ 138.14		\$ 11.51
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		\$ 85	0.3507		\$ 32.20		\$ 2.68
CONDUIT	4C	1.0000			0.2521				
TOTALS				\$ 0	\$ 817		\$ 305.15	\$ 0.00	\$ 25.42
				\$ 817		\$ 305.15		\$ 25.42	

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
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 3 - RESIDENCE LINE

Bellicore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:34

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) = $\frac{\text{wire length}}{\text{from invest}}$ = $\frac{0.0000}{0.2500}$

POLE LINE INVESTMENT (UTIL AERIAL INVEST x PLF) = \$ 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 PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OH:O										Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 15:34	
FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 3 - RESIDENCE LINE											
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				
										\$ 0	\$ 75
											\$ 75
										bctmrvty	

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Facility Type: COPPER CABLE
Circuit Segment: SERVICE ACCESS
Service Class: BAND 3 - RESIDENCE LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:34

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

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				
13 AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
14 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			bctshrinv \$ 0	bctdirinv \$ 75			\$ 29.42	\$ 0.00	\$ 2.45
			bctinvsv \$ 75				\$ 29.42		\$ 2.45
						bctann		bctmrc	

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[®]

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - RESIDENCE LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:39

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

from invest.:
0.2530

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

\$ 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 PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Bellcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4	
CITY/AREA: CINCINNATI										STUDY YR: 1996	
STATE/PROV: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 22-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 15:35	
SERVICE CLASS: BAND 3 - RESIDENCE LINE											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION				
		VARI ALLOCATION	COST EQUATION	[F]	[G]	SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]	[J]	SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
9 LAND	20C	F	SHARED					1.0000			
10 BUILDING	10C	F	SHARED					1.0000			
11 BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000		\$ 75	
12 INTRABLDG CABLE	52C	V	DIRECT	0.00				0.3500			
13 AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500			
15 UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500			
16 CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
17 CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
18 CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
19 CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
20 CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
21 CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
22 AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
23 BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
24 UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
25 CONNECTORS	57C	V	DIRECT					1.0000			
26 MISC. COM EQP & PWR	57C	V	SHARED					1.0000			
27 POLE LINE	1C	F	DIRECT	0.00				1.0000			
28 CONDUIT	4C	F	DIRECT					1.0000			
								\$ 0	\$ 75		
									\$ 75		
								bctmrvy			

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

CA1123R24LCATCALCDIST DIST PLNT - WORKSHEET B Sheet 3 of 3			LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET						Bellcore (P) LCAT Release: 1.0.4 STUDY YR: 1998 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 15:35	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 3 - RESIDENCE LINE							
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			0.2889					
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			bctshrinv bctdirinv		bctann bctmrc		bctshrinv bctdirinv		bctann bctmrc	
			\$ 0 \$ 75		\$ 0.00 \$ 29.42		\$ 0.00 \$ 2.45		\$ 0.00 \$ 2.45	
			bctinvsy							

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DATE 10-1-98 BY 60322 UC/LP/STW

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 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 3 - RESIDENCE LINE		STUDY YR: 1996	
CITY / AREA: CINCINNATI					TEST CASE: 1	
STATE / PROV: OHIO					RUN DATE: 22-Jan-97	
					TIME: 15:35	
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		\$ 2.45				

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RUN - SUB PRI

LAST UPDATE

22-Jan-97

15:00

LOOP COST ANALYSIS TOOL

Bellcore (n)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE LINE STUDY 18001 FEET - INFINITE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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SUB PR - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:36

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

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 -- RELATIVE MIX OF TYPE OF CA. PLANT		LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 -- MILD CABLE DESIGN INVEST. PER PAIR FOOT		CABLE COMPONENTS --			
		[B]	[C=A*B]		[D]	[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	0.810000	243.00	0.011300	2.75		0.00	0.00		
MELDED GAUGE/S/ COPPER	BURIED	0.040000	12.00	0.018900	0.23		0.00	0.00		
CABLE	UNDERGRND	0.150000	45.00	0.012000	0.54		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 lgth: inv rtn fctr: 0.000000 0.253000
27 POLE LINE FACTOR = \$ 1.16
28 POLE LINE INVESTMENT =
29 (UTIL AERIAL INVEST x PLF)
30
31 UG CONDUIT FACTOR = 0.000000 0.516500
32 CONDUIT INVESTMENT = \$ 0.46
33 (UTIL UNDGRND INVEST x UCF)
34
35
36
37
38
39
40
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

MISC. COMMON EQPT. & POWER FACTOR = 0.112700
MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00
LAND FACTOR = 0.00580
LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00
BUILDING FACTOR = 0.73100
BLDG NVST (CO CONN + MCEP) x FACTOR = \$ 0.00
PERCENT OF CO CONN AT DIGITAL SWITCHES 100.0000
PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000

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RATES PLAN

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: <u>MELDED GAUGE/S/ SUB-PRIMARY</u> SERVICE CLASS: BAND 3 - RESIDENCE LINE					Bellcore® LCAT Release: 1.0.4 Issue Date: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 15:36	
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		\$ 5	0.4033		\$ 1.85		\$ 0.15
13 BURIED CABLE (COPPER)	45C	1.0000		\$ 0	0.3467		\$ 0.13		\$ 0.01
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 1	0.3663		\$ 0.33		\$ 0.03
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		\$ 1	0.3807				\$ 0.04
27 CONDUIT	4C	1.0000		\$ 0	0.2521				\$ 0.01
28									
29 SUBTOTALS			\$ 0	\$ 7		\$ 0.00	\$ 2.86	\$ 0.00	\$ 0.24
30									
31 TOTALS				\$ 7			\$ 2.86		\$ 0.24
32									
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
Sheet 1 of 1

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

FACILITY SEGMENT: SUB-PRIMARY PLANT
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 15:36

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX	AVG LGTH	SEG LGTH	1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	(SEE NOTE) TOTAL AVG. WEIGHTED				
					0	300				
					1.0000					
					28127					
					300					
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				
2 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				\$ 0.15	\$ 0.15				
34 BURIED CABLE (COPPER)	45C				\$ 0.01	\$ 0.01				
35 UNDERGROUND (CU) CA.	5C				\$ 0.03	\$ 0.03				
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	0.0			\$ 0.04	\$ 0.04				
48 CONDUIT	4C	0.0			\$ 0.01	\$ 0.01				
SPAN SUMMARY					\$ 0.24	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.24
AVG. WTD. SPAN SUMMARY					\$ 0.24	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: $[\text{sum}(\text{INV}_{\text{ACCT}}^{\text{BAND}} * \text{MIX}^{\text{BAND}})]$										

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RUN - CDLC PLANT

LAST UPDATE
22-Jan-97
15:01

LOOP COST ANALYSIS TOOL

BelcoreTM
LCAT

Release: 1.0.4
Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE LINE STUDY 18001 FEET - INFINITY INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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CA123R24/LCATCALC/CUPRGN CDLC PLANT - WORKSHEET 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 : <u>TIC</u> SERVICE CLASS : <u>BAND 3 - RESIDENCE LINE</u> Bellcore[®] LCAT Release : 1.0.4 Issue Date : 8/31/95 STUDY YR : 1996 TEST CASE : 1 DATE : 22-Jan-97 TIME : 03:39 PM											
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	1.47	1	\$ 1		1.0000		\$ 1	
BUILDING	10C	F	SHARED	34.76	1	\$ 35		1.0000		\$ 35	
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	52.63	1		\$ 53	0.6000		\$ 88	
BURIED CABLE (COPPER)	45C	V	DIRECT	4.35	1		\$ 4	0.6000		\$ 7	
UNDERGROUND (CU) CA.	5C	V	DIRECT	14.52	1		\$ 15	0.6000		\$ 24	
CO EQPT - P GAIN TERM	257C	F	DIRECT	79.13	1		\$ 79	0.7000		\$ 113	
CO EQPT - P GAIN CHAN	257C	V	DIRECT	172.79	1		\$ 173	0.7000		\$ 247	
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					0.3300			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	11.23	1	\$ 11		1.0000		\$ 11	
POLE LINE	1C	F	DIRECT	22.19	1		\$ 22	1.0000		\$ 22	
CONDUIT	4C	F	DIRECT	8.91	1		\$ 9	1.0000		\$ 9	
TOTALS											
										\$ 510	
										\$ 558	

FEED11Y

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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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CDLG_PLANT - WORKSHEET 1

Sheet 3 of 3

COMPANY: CINCINNAT BELL TEL

CITY / AREA: OHIO

STATE / PROV: CINCINNAT

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 CXX

CIRCUIT DESIGN: T1C

SERVICE CLASS: BAND4 - RESIDENCE LINE

LCAT Release: 1.0.4

Issue Date: 8/31/95

STUDY YR: 1996

TEST CASE: 1

DATE: 22-Jan-97

TIME: 03:39 PM

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	DIRECT		SHARED	DIRECT	SHARED	DIRECT
			RESOURCES	RESOURCES		RESOURCES	RESOURCES	RESOURCES	RESOURCES
			[M=K*L]	[M'=K'*L]		[P=M*N]	[P'=M'*N]	[R=P/12]	[R'=P'/12]
LAND	20C	1.0000	\$ 1		0.2322	\$ 0.34		\$ 0.03	
BUILDING	10C	1.0000	\$ 35		0.2937	\$ 10.21		\$ 0.85	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 88	0.4033		\$ 35.38		\$ 2.95
BURIED CABLE (COPPER)	45C	1.0000		\$ 7	0.3467		\$ 2.51		\$ 0.21
UNDERGROUND (CU) CA.	5C	1.0000		\$ 24	0.3663		\$ 8.86		\$ 0.74
CO EQPT - P GAIN TERM	257C	1.0000		\$ 113	0.3881		\$ 43.87		\$ 3.66
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 247	0.3881		\$ 95.80		\$ 7.98
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			0.2963				
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	\$ 11		0.3881	\$ 4.36		\$ 0.36	
POLE LINE	1C	1.0000		\$ 22	0.3807		\$ 8.45		\$ 0.70
CONDUIT	4C	1.0000		\$ 9	0.2521		\$ 2.25		\$ 0.19
TOTALS			\$ 47	\$ 510		\$ 14.91	\$ 147.72	\$ 1.24	\$ 16.43
				\$ 558			\$ 212.03		\$ 17.67
				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.

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CDLG_PLANT - REPORT 14.1

Sheet 1 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore[®]

LCAT Release: 1.0.4

Issue Date: 8/31/95

STUDY YR: 1996

TEST CASE: 1

DATE: 22-Jan-97

TIME: 03:39 PM

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

FACILITY SEGMENT: PRIMARY FEEDER SEGMENT
CIRCUIT DESIGN: COPPER DIG LOOP CXR
SERVICE CLASS: BAND 3 - RESIDENCE LINE

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

(SEE NOTE)

PLANT ITEM	BAND	MIX	ACCT	AVG	CODE	LGTH	SEG.LGTH.	TOTAL
								AVG. WEIGHTED INVESTMENT
								23001
SHARED RESOURCES								
LAND	20C							\$ 0.03
BUILDING	10C							\$ 0.85
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							\$ 0.36
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							\$ 2.95
BURIED CABLE (COPPER)	45C							\$ 0.21
UNDERGROUND (CU) CA.	5C							\$ 0.74
CO EQPT - P GAIN TERM	257C							\$ 3.66
CO EQPT - P GAIN CHAN	257C							\$ 7.98
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							\$ 0.70
CONDUIT	4C	*****						\$ 0.19

SPAN SUMMARY

17.67

0.00

0.00

0.00

0.00

0.00

17.67

AVG. WTD. SPAN SUMMARY

17.67

0.00

0.00

0.00

0.00

0.00

NOTE: [sum(INV_{ACCT} * MIX_{MANU})]

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Bellcore (R)

RUN - FO MUX

LAST UPDATE

22-Jan-97

15:05

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 3 (OHIO) RESIDENCE LINE STUDY 18001 FEET - INFINITY IN

CURRENT TEST PLAN :

CURRENT JOB IDENT.		CINCINNATI
BASIS	NETWORK	TEST CASE 1
FR / DS	FLAT RATE	#BANDS 9
SVC LEVEL	NARBAND	#CKTS 1
CST METH	UN INCR	INV LEVEL ANN COST

...your run is finished

PRIOR TO RELEASE
PROVIDE

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT 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 3 - RESD; SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 15:40	
C:\123R24\LCAT\CALC\FOPFGN.WK1 FO MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from star to: 300 cur_sfdlength 15714 cur_prlngth SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT TYPE OF CA. PLANT RELATIVE MIX OF TYPE OF CA. PLANT EFFECTIVE LENGTH BY TYPE OF PLANT MLD CABLE DESIGN INVEST. PER PAIR FOOT WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT WEIGHTED TERMINAL INVESTMENT AIR DRYER INVESTMENT PER PAIR DROP WIRE ADJUSTMENT PER PAIR WEIGHTED DROP WIRE INVESTMENT PER PAIR (NOTE 5) (NOTE 4) (NOTE 5)											
fo3pri_segngth [A] 23001 CO TO HUB LINK ON FIBER OPTIC FACILITIES AERIAL BURIED UNDERGRND 0.810000 0.000000 0.190000 1.000000 1979.04 wtdeqvmn f = 9.41 0.193000 0.00 0.000000 0.222900 0.00 0.00 0.49 0.00											
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.) = \$ 13.71 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77 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 OTH (LANDfrem) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR OTH (LANDfrem) = 0.0056 LAND INVST. (DLC+MUX+MCEP) x LANDfrem = \$ 0.76 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.96 BUILDING FACTOR FOR OTH EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfrem = \$ 17.81 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.00											
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) = FIBER MUX EQUIP. INV. (FO COMUX) = FIBER MUX EQUIP. INV. (FO RTMUX) = OTHER INVESTMENT POLE LINE FACTOR (PLf) = POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = UNDERGROUND CONDUIT FACTOR (PLf) = CONDUIT INVESTMENT (UTIL UNDERGRND INVST x UCF) = 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 CENT. OFC. INTEGRATED DLC INTFC 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 MULTIPLIED 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.											

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT 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: 31 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RESID SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 15:40	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION	ADMIN. UTIL LINE FILL	1996 UNIT LOOP INVESTMENT INCL UTILIZATION			
						SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES	
						[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]	
LAND	20C	F	SHARED	1.74	1	\$ 2		1.0000	\$ 2		
BUILDING	10C	F	SHARED	40.90	1	\$ 41		1.0000	\$ 41		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.5000			
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
CO EQPT - LOW CAP TERM	257C	F	DIRECT	53.71	1		\$ 64	0.7000		\$ 91	
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	172.79	1		\$ 173	0.7000		\$ 247	
CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	1		\$ 22	1.0000		\$ 22	
CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	1		\$ 38	1.0000		\$ 38	
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	1.82	1		\$ 2	0.3300		\$ 6	
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.49	1		\$ 0	0.3300		\$ 1	
CONNECTORS	57C	V	DIRECT	0.00				1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	13.71	1	\$ 14		1.0000	\$ 14		
POLE LINE	1C	F	DIRECT	1.08	1		\$ 1	1.0000		\$ 1	
CONDUIT	4C	F	DIRECT	0.78	1			1.0000		\$ 1	
TOTALS									\$ 58	\$ 407	
										\$ 464	
										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										Bellcore [®]	
ANNUAL COSTS WORKSHEET										LCAT Rel: 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 HLB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RE: SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 15:40	
CA123R24\LCATCALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 3 of 3 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO											
PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
				SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset		SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset	
[PREVIOUS SHEET SUMMARY]			[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]	
9.	LAND	20C	1.0000	\$ 2		0.2322	\$ 0.40		\$ 0.03		
10.	BUILDING	10C	1.0000	\$ 41		0.2937	\$ 12.01		\$ 1.00		
11.	BLDG ENTRANCE CABLE	12C	1.0000			0.3922					
12.	INTRABLDG CABLE	52C	1.0000			0.3922					
13.	AERIAL CABLE (COPPER)	22C	1.0000			0.4033					
14.	BURIED CABLE (COPPER)	45C	1.0000			0.3467					
15.	UNDERGROUND (CU) CA.	5C	1.0000			0.3663					
16.	CO EQPT - LOW CAP TERM	257C	1.0000		\$ 91	0.3881		\$ 35.32		\$ 2.94	
17.	CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 247	0.3881		\$ 95.80		\$ 7.98	
18.	CO EQPT - HI CAP TERM	857C	1.0000		\$ 22	0.3881		\$ 8.72		\$ 0.73	
19.	CO EQPT - HI CAP CHAN	857C	1.0000		\$ 38	0.3881		\$ 14.79		\$ 1.23	
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		\$ 6	0.2983		\$ 1.84		\$ 0.14	
23.	BURIED CABLE (FIBER)	845C	1.0000			0.2724					
24.	UNDERGROUND (FO) CA.	85C	1.0000		\$ 1	0.2689		\$ 0.40		\$ 0.03	
25.	CONNECTORS	57C	1.0000			0.3881					
26.	MISC. COM EQP & PWR	57C	1.0000	\$ 14		0.3881	\$ 5.32		\$ 0.44		
27.	POLE LINE	1C	1.0000		\$ 1	0.3807		\$ 0.41		\$ 0.03	
28.	CONDUIT	4C	1.0000		\$ 1	0.2521		\$ 0.20		\$ 0.02	
TOTALS				\$ 56	\$ 407		\$ 17.74	\$ 157.29	\$ 1	\$ 13.11	
					\$ 464			\$ 175.02		\$ 14.59	
					feed3sy			feed3ann		feed3mrc	

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\LCATR075\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION 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: 12-Jul-96
TIME: 09:13

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

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTI-LEXED) 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.

CA\123R24\LCATR075\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN

Belcore (R)
LCAT Rel : 1.0.4
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

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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: 12-Jul-96
TIME: 09:13

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
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	F	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 F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY.
 ITEMS LABELED F(ixed) 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
Sheet 2 of 2

HELP SCREEN**Bellcore** (R)

LCAT Rel : 1.0.4

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 *****
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CA123R24\LCATR075\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 09-Dec-96	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				17-Oct-96 01:16 PM	
STUDY NAME		1996 BAND 3 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 18001 FEET - INFINITY INTRASTA			
COMMENTS					
SERVICE CLASS		BAND 3 - RESIDENCE LINE		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		1	
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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CA123R24\LCATR075\CRITERIA		HELP SCREEN	Belcore®
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 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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CA123R24\LCATR075\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 3 - RESIDENCE LINE	LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-96 TIME: 01:18 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 ?																																			
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 ?																																			
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.																																			
<table border="1" style="font-size: x-small; border-collapse: collapse;"> <thead> <tr> <th colspan="2">VALID RESPONSE</th> </tr> </thead> <tbody> <tr> <td>SET</td> <td></td> </tr> <tr> <td>N or A</td> <td>NEW</td> </tr> <tr> <td>S or P</td> <td>SWITCHED</td> </tr> <tr> <td>N, W or B</td> <td>NARBAND</td> </tr> <tr> <td>2 or 4</td> <td>2</td> </tr> <tr> <td>0 → 100</td> <td>100</td> </tr> <tr> <td>0 → 100</td> <td>0</td> </tr> <tr> <td>0 → 100</td> <td></td> </tr> <tr> <td>e.g., 12000</td> <td>18000 Feet</td> </tr> <tr> <td>For D</td> <td>FLAT RATE</td> </tr> <tr> <td>1,2,3,4</td> <td></td> </tr> <tr> <td>0 or A</td> <td></td> </tr> <tr> <td>For M</td> <td>COST</td> </tr> <tr> <td>0 → 1000</td> <td>TOT INCR</td> </tr> <tr> <td></td> <td>RATES PLAN</td> </tr> </tbody> </table>					VALID RESPONSE		SET		N or A	NEW	S or P	SWITCHED	N, W or B	NARBAND	2 or 4	2	0 → 100	100	0 → 100	0	0 → 100		e.g., 12000	18000 Feet	For D	FLAT RATE	1,2,3,4		0 or A		For M	COST	0 → 1000	TOT INCR		RATES PLAN
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C:\123R24\LCAT\075\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 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.

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR075\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN Sheet 1 / 1 COMPANY : CINCINNATI BELL TEL. CITY / AREA : CINCINNATI STATE / PROV : OHIO		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE LINE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 09:14

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

**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	NA 0.0000
Weighting of Design #5	NA 0.0000
Weighting of Design #6	NA 0.0000
1.0000 ChkSum	

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES :
 Proportion of Remote terminals
 colocated at Customer Premises 0.0000

FOR COPPER DLC DESIGNS:

Weighting of Design #1	1.0000
Weighting of Design #2	NA 0.0000
1.0000 ChkSum	

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

C:\123R24\LCATR075\DESIGN

HELP SCREEN**Belcore**

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 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 *****

***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

PRESS < Enter > KEY TO RETURN TO THE MAIN-MENU

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CA123R24\LCAT075\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 3 - RESIDENCE LINE		LAST UPDATE: 12-Jul-96	
				TIME: 09:16	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
CABLE TYPE MIX (DISTRIBUTION TO CODE):					
Proportion of FIBER cable installations that are					
AERIAL		0.8100		0.0000 factors	
BURIED		0.0000		0.0000 factors	
UNDGRD		0.1900		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		\$ 0.1930		per fiber pair Foot	
BURIED		\$ 0.0000		per fiber pair Foot	
UNDGRD		\$ 0.2229		per fiber pair Foot	
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable,					
Installed as					
AERIAL		\$ 0.1930		\$ 0.0000 per fiber pair Foot	
BURIED		\$ 0.0000		\$ 0.0000 per fiber pair Foot	
UNDGRD		\$ 0.2229		\$ 0.0000 per fiber pair Foot	
		(Fiber Hub to Remote Terminal)		(Remote Terminal to Service Point)	

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CA123R24\LCATR075\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore
TABLE - SPAN INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INFO: FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE LINE				LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 09:16
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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