

Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

Today's Date: _____

Page Count _____

Part 5 _____

MCI Exhibits

1-48

LOOP COST ANALYSIS TOOL										Bellcore 99	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL										Issue Date: 8/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC NON-COLLOC)										TEST CASE: 1	
SERVICE CLASS: BAND 1 - BUSINESS LINE										RUN DATE: 22-Jan-97	
COMPANY: CINCINNATI BELL TEL.										TIME: 09:51	
CITY / AREA: CINCINNATI											
STATE / PROV: OHIO											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	14.94	1		\$ 15	0.3500		\$ 43	
BURIED CABLE (COPPER)	45C	V	DIRECT	6.71	1		\$ 7	0.3500		\$ 19	
UNDERGROUND (CU) CA.	5C	V	DIRECT	9.08	1		\$ 9	0.3500		\$ 26	
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED					0.0000			
POLE LINE	1C	F	DIRECT	10.80	1			1.0000		\$ 11	
CONDUIT	4C	F	DIRECT	13.39	1			1.0000		\$ 13	

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

50 FOOTNOTES
51 NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H') ARE CAUSED BY COMPUTER ROUNDING.
52 NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.
53 AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;
54 CO EQPT - ESS = CONNECTORS + MISC. CP&E.
55

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Q:\123R24\LCAT\CALC\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 1 - BUSINESS LINE

Bellcore (R)
LCAT Release: 1.0.4
Issue Date: 6/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 09:51

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]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 43	0.4033		\$ 17.22		\$ 1.43
BURIED CABLE (COPPER)	45C	1.0000		\$ 19	0.3467		\$ 6.64		\$ 0.55
UNDERGROUND (CU) CA.	5C	1.0000		\$ 26	0.3563		\$ 9.50		\$ 0.79
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 11	0.3807		\$ 4.11		\$ 0.34
CONDUIT	4C	1.0000		\$ 13	0.2521		\$ 3.28		\$ 0.28
TOTALS									

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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CA123R24LCATCALC1DIST
DIST. PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS LINE

Bellicore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 09:51

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) = 0.0000
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

from invest. 0.2530

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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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LOOP COST ANALYSIS TOOL										Bellcore (P)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
C:\123R24\LCAT\CALC\DIST										Release: 1.0.4	
DIST_PLNT - WORKSHEET B										STUDY YR: 1996	
Sheet 2 of 3										TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL.										RUN DATE: 22-Jan-97	
CITY / AREA: CINCINNATI										TIME: 09:51	
STATE / PROV: OHIO											
FACILITY TYPE: COPPER CABLE											
CIRCUIT SEGMENT: SERVICE ACCESS											
SERVICE CLASS: BAND 1 - BUSINESS LINE											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE	VARI ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION		
				COST EQUATION		SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES	
				[F]	[G]	[H=F*G]	[H'=F'*G]	[J]	[K=H/J]	[K'=H'/J]	
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000		\$ 75	
INTRABLDG CABLE	52C	V	DIRECT	0.00				0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500			
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED					1.0000			
POLE LINE	1C	F	DIRECT	0.00				1.0000			
CONDUIT	4C	F	DIRECT					1.0000			

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PROVIDED TO PUCO

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.

CA123R24LCATCALC.DIST
DIST_PLNT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore[®]
LCAT

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 09:51

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

TOTALS

bctshrinv bctdirinv
=====

\$ 0	\$ 75
	\$ 75

bctinvsv

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PROVIDED TO PUCO

FOOTNOTES

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

C:\123R2\LCAT\CALC\DIST
DIST PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Bellcore (P)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 22-Jan-97

TIME: 09:52

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS LINE

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

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POLE LINE FACTOR (PLF) =

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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LOOP COST ANALYSIS TOOL										Bellcore®	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4	
CITY / AREA: CINCINNATI										STUDY YR: 1998	
STATE / PROV: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 22-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 09:52	
SERVICE CLASS: BAND 1 - BUSINESS LINE											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	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				1.0000				
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
										bctmvy	
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

Belcore (R)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 22-Jan-97

TIME: 09:52

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BANO 1 - BUSINESS 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			0.2689				
CONNECTORS	57C	1.0000			0.2881				
MISC. COM EQP & PWR	57C	1.0000			0.3807				
POLE LINE	1C	1.0000							
CONDUIT	4C	1.0000							
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 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.

CA123R24/LCATCALC/DIST				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: 1998	
STATE / PROV: OHIO				CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC NON-COLLOC)				TEST CASE: 1	
				SERVICE CLASS: BAND 1 - BUSINESS LINE				RUN DATE: 22-Jan-97	
								TIME: 09:52	
logic-14a				1998 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
				0				TOTAL	
				1.0000				AVG. WEIGHTED	
								INVESTMENT	
PLANT ITEM				PLANT ACCT CODE	BAND MIX AVG. LGTH.	6403			
				SEG. LGTH.	638.0				
6 SHARED RESOURCES								638	
7	LAND	20C						\$ 0.00	
8	BUILDING	10C						\$ 0.00	
9	BLDG ENTRANCE CABLE	12C						\$ 0.00	
10	INTRABLDG CABLE	52C						\$ 0.00	
11	AERIAL CABLE (COPPER)	22C						\$ 0.00	
12	BURIED CABLE (COPPER)	45C						\$ 0.00	
13	UNDERGROUND (CU) CA.	5C						\$ 0.00	
14	CO EQPT - P GAIN TERM	257C						\$ 0.00	
15	CO EQPT - P GAIN CHAN	257C						\$ 0.00	
16	CO EQPT - FO MUX TERM	857C						\$ 0.00	
17	CO EQPT - FO MUX CHAN	857C						\$ 0.00	
18	CO EQPT - ANALOG SW	77C						\$ 0.00	
19	CO EQPT - DIGITAL SW	377C						\$ 0.00	
20	AERIAL CABLE (FIBER)	822C						\$ 0.00	
21	BURIED CABLE (FIBER)	845C						\$ 0.00	
22	UNDERGROUND (FO) CA.	85C						\$ 0.00	
23	CONNECTORS	57C						\$ 0.00	
24	MISC. COM EQP & PWR	57C						\$ 0.00	
25	POLE LINE	1C						\$ 0.00	
26	CONDUIT	4C						\$ 0.00	
27									
28	DIRECT RESOURCES								
29	LAND	20C						\$ 0.00	
30	BUILDING	10C						\$ 0.00	
31	BLDG ENTRANCE CABLE	12C						\$ 0.00	
32	INTRABLDG CABLE	52C						\$ 0.00	
33	AERIAL CABLE (COPPER)	22C		\$ 1.43				\$ 1.43	
34	BURIED CABLE (COPPER)	45C		\$ 0.55				\$ 0.55	
35	UNDERGROUND (CU) CA.	5C		\$ 0.79				\$ 0.79	
36	CO EQPT - P GAIN TERM	257C						\$ 0.00	
37	CO EQPT - P GAIN CHAN	257C						\$ 0.00	
38	CO EQPT - FO MUX TERM	857C						\$ 0.00	
39	CO EQPT - FO MUX CHAN	857C						\$ 0.00	
40	CO EQPT - ANALOG SW	77C						\$ 0.00	
41	CO EQPT - DIGITAL SW	377C						\$ 0.00	
42	AERIAL CABLE (FIBER)	822C						\$ 0.00	
43	BURIED CABLE (FIBER)	845C						\$ 0.00	
44	UNDERGROUND (FO) CA.	85C						\$ 0.00	
45	CONNECTORS	57C						\$ 0.00	
46	MISC. COM EQP & PWR	57C						\$ 0.00	
47	POLE LINE	1C		\$ 0.34				\$ 0.34	
48	CONDUIT	4C		\$ 0.28				\$ 0.28	
49									
50									
51	SPAN SUMMARY		\$ 3.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
52	AVG. WTD. SPAN SUMMARY		\$ 3.39	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
53									
54	NOTE:		[sum(INV _{ACCT} BAND * MIX BAND)]					\$ 3.39	
55									

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PROVIDED TO PUBLIC

C:\123R24\LCAT\CALC\DIST			LOOP COST ANALYSIS TOOL		Bellcore TM	
DIST_PLNT - REPORT 14B			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY			
Sheet 1 of 1			COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT: <u>SERVICE ACCESS</u>	
CITY / AREA: CINCINNATI			SERVICE CLASS: BAND 1 - BUSINESS LINE		Release: 1.0.4	
STATE / PROV: OHIO					STUDY YR: 1996	
					TEST CASE: 1	
					RUN DATE: 22-Jan-97	
					TIME: 09:52	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						
ALL						
	PLANT	BAND				
	ACCT	MIX				
	CODE	AVG.				
		LGTH.				
SHARED RESOURCES						
7	LAND	20C				
8	BUILDING	10C				
9	BLDG ENTRANCE CABLE	12C				
10	INTRABLDG CABLE	52C				
11	AERIAL CABLE (COPPER)	22C				
12	BURIED CABLE (COPPER)	45C				
13	UNDERGROUND (CU) CA.	5C				
14	CO EQPT - P GAIN TERM	257C				
15	CO EQPT - P GAIN CHAN	257C				
16	CO EQPT - FO MUX TERM	857C				
17	CO EQPT - FO MUX CHAN	857C				
18	CO EQPT - ANALOG SW	77C				
19	CO EQPT - DIGITAL SW	377C				
20	AERIAL CABLE (FIBER)	822C				
21	BURIED CABLE (FIBER)	845C				
22	UNDERGROUND (FO) CA.	85C				
23	CONNECTORS	57C				
24	MISC. COM EQP & PWR	57C				
25	POLE LINE	1C				
26	CONDUIT	4C				
DIRECT RESOURCES						
29	LAND	20C				
30	BUILDING	10C				
31	BLDG ENTRANCE CABLE	12C				
32	INTRABLDG CABLE	52C				
33	AERIAL CABLE (COPPER)	22C				
34	BURIED CABLE (COPPER)	45C				
35	UNDERGROUND (CU) CA.	5C				
36	CO EQPT - P GAIN TERM	257C				
37	CO EQPT - P GAIN CHAN	257C				
38	CO EQPT - FO MUX TERM	857C				
39	CO EQPT - FO MUX CHAN	857C				
40	CO EQPT - ANALOG SW	77C				
41	CO EQPT - DIGITAL SW	377C				
42	AERIAL CABLE (FIBER)	822C				
43	BURIED CABLE (FIBER)	845C				
44	UNDERGROUND (FO) CA.	85C				
45	CONNECTORS	57C				
46	MISC. COM EQP & PWR	57C				
47	POLE LINE	1C				
48	CONDUIT	4C				
49	SPAN TOTAL		\$ 2.45			

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RUN - SUB PRI

LAST UPDATE

22-Jan-97

09:15

LOOP COST ANALYSIS TOOL

BellcoreTM

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 0 - 12000 FEET

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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SUB_PRI - 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 1 - BUSINESS LINE

Belcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 09:58

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
5765	AERIAL	0.120000	691.80	0.012100	8.37		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.000000	0.00	0.016800	0.00		0.00	0.00	
CABLE	UNDERGRND	0.880000	5073.20	0.010900	55.30		0.00	0.00	
CHECK =		1.000000							

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION (CO CONN) CONNECTORS (coi77c) = \$ 0.00
inv / unit lctn: inv rtn fctr: 0.000000 0.253000
POLE LINE FACTOR = \$ 3.53

UG CONDUIT FACTOR = 0.000000 0.516500
CONDUIT INVESTMENT = \$ 47.60
(UTIL UNDGRND INVEST x UCI)

MISC. COMMON EQPT. & POWER FACTOR = 0.112700
MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00

LAND FACTOR = 0.07500
LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00
BUILDING FACTOR = 0.13160
BLDG NVST (CO CONN + MCE&P) 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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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.
NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)
NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.
NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).

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SUB PRI - WORKSHEET

Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONSFACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: [MELOD] GAUGE/S/ SUB - PRIMARY

SERVICE CLASS: BAND 1 - BUSINESS LINE

Bellcore (P)

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 09:58

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	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		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
							SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
8	LAND	20C	F	SHARED	0.00				1.0000		
9	BUILDING	10C	F	SHARED	0.00				1.0000		
10	BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
11	INTRABLDG CABLE	52C	V	DIRECT					0.3500		
12	AERIAL CABLE (COPPER)	22C	V	DIRECT	8.37	1		\$ 8	0.6000		\$ 14
	BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000		
	UNDERGROUND (CU) CA.	5C	V	DIRECT	55.30	1		\$ 55	0.6000		\$ 92
15	CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000		
16	CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000		
17	CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000		
18	CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000		
19	CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000		
20	CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
21	AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
22	BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
23	UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
24	CONNECTORS	57C	V	DIRECT					1.0000		
25	MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
26	POLE LINE	1C	F	DIRECT	3.53	1		\$ 4	0.6000		\$ 4
27	CONDUIT	4C	F	DIRECT	47.60	1		\$ 48	1.0000		\$ 48
28											
29											
30											
31	TOTALS										\$ 157
32											\$ 157
33											culpiniv

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FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:

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

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

C:\123R24\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: [MELOD GAUGE/S/ SUB-PRIMARY]						TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE						RUN DATE: 22-Jan-97	
								TIME: 09:58	
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]
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		\$ 14	0.4033		\$ 5.63		\$ 0.47
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000		\$ 92	0.3663		\$ 33.76		\$ 2.81
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			0.2681				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 4	0.3807		\$ 1.52		\$ 0.11
CONDUIT	4C	1.0000		\$ 48	0.2521		\$ 12.00		\$ 1.00
SUBTOTALS			\$ 0	\$ 157		\$ 0.00	\$ 52.73	\$ 0.00	\$ 4.39
TOTALS				\$ 157			\$ 52.73		\$ 4.39
			culpinvsy			culpac		culpntrc	

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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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CM123R24\LCATC\LC\CLUTCH		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		STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		STUDY YR: 1996	
						TEST CASE: 1	
						RUN DATE: 22-Jan-97	
						TIME: 09:59	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
(SEE NOTE)							
TOTAL							
AVG. WEIGHTED							
5765							
SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
29	LAND	20C					\$ 0.00
30	BUILDING	10C					\$ 0.00
31	BLDG ENTRANCE CABLE	12C					\$ 0.00
32	INTRABLDG CABLE	52C					\$ 0.00
33	AERIAL CABLE (COPPER)	22C		\$ 0.47			\$ 0.47
34	BURIED CABLE (COPPER)	45C					\$ 0.00
35	UNDERGROUND (CU) CA.	5C		\$ 2.81			\$ 2.81
36	CO EQPT - P GAIN TERM	257C					\$ 0.00
37	CO EQPT - P GAIN CHAN	257C					\$ 0.00
38	CO EQPT - FO MUX TERM	857C					\$ 0.00
39	CO EQPT - FO MUX CHAN	857C					\$ 0.00
40	CO EQPT - ANALOG SW	77C					\$ 0.00
41	CO EQPT - DIGITAL SW	377C					\$ 0.00
42	AERIAL CABLE (FIBER)	822C					\$ 0.00
43	BURIED CABLE (FIBER)	845C					\$ 0.00
44	UNDERGROUND (FO) CA.	85C					\$ 0.00
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C	0.1	\$ 0.11			\$ 0.11
48	CONDUIT	4C	1	\$ 1.00			\$ 1.00
50	SPAN SUMMARY			\$ 4.39	\$ 0.00	\$ 0.00	\$ 4.39
52	AVG. WTD. SPAN SUMMARY			\$ 4.39	\$ 0.00	\$ 0.00	\$ 4.39
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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RUN - CDLC PLANT

LAST UPDATE
22-Jan-97
09:17

LOOP COST ANALYSIS TOOL

Belcore (R)
LCAT
Release: 1.0.4
Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 0 - 12000 FEET 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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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/85	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1985	
FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
CIRCUIT DESIGN: T-C										DATE: 22-Jan-87	
SERVICE CLASS: BAND 1 - BUSINESS LINE										TIME: 10:00 AM	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI											
6403 cur_lgth 5765 cur_rtr-1gth f = 0.125 pgiactor											
SEGMENT LENGTH IN FEET	CABLE TYPE	RELATIVE MIX OF TYPE OF PLANT	EFFECTIVE LENGTH BY TYPE OF PLANT	MELDED INVEST. PER UNIT FOOT	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	WEIGHTED DROP WIRE INVESTMENT PER PAIR		
[A]		[B]	[C=A*B*f]	[D]	[E=C*D]	[U*I*DTC]	[E*fctr]	[E*fctr]	[U*I*DTC]		
0	AERIAL	0.120000	0.00	0.024200	\$ 0.00		\$ 0.00				
CO TO RT LINK											
ON	BURIED	0.000000	0.00	0.033200	\$ 0.00		\$ 0.00				
COPPER CABLE DLC											
24.00 GA. FACILITIES	UNDERGRND	0.880000	0.00	0.021800	\$ 0.00		\$ 0.00				
		1.000000									
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvt											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =											
UGD CONDUIT FACTOR (UCF) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVEST x UCF) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =											
MCE&P INVEST. (CU REMMUX x MCEP) =											
MCE&P INVEST. (CDLGMUX x MCEP) =											
MCE&P INVEST. (CO CONN x MCEP) =											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf_rem) =											
LAND FACTOR FOR DLC (LANDf_c.o.) =											
LAND INVEST. (CU COMUX x MCEP) x LANDf =											
LAND INVEST. (CO CONN x MCEP) x LANDf =											
BUILDING FACTOR FOR DLC (BLDGf_rem) =											
BUILDING FACTOR FOR DLC (BLDGf_c.o.) =											
BLDG INVEST. (CU COMUX x MCEP) x BLDGf =											
BLDG INVEST. ((CO CONN x MCEP) x BLDGf) =											
LOOP TOPOLOGY											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF RING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
STAR											
NA											
NA											
0.0000											
1.0000											
0.0000											
1.0000											
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.											

C:\123R24\LCATCALC\CUPRGN		LOOP COST ANALYSIS TOOL										Bellcore [®]	
CDLC PLANT - WORKSHEET 1		ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
Sheet 2 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 6/31/95	
COMPANY: CINCINNATI BELL TEL		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
CITY / AREA: OHIO		FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: T1C										DATE: 22-Jan-97	
		SERVICE CLASS: BAND 1 - BUSINESS LINE										TIME: 10:00 AM	
PLANT ITEM	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	0.85	0			1.0000					
BUILDING	10C	F	SHARED	20.17	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	66.99	0			0.7000					
CO EQPT - P GAIN CHAN	257C	V	DIRECT	85.28	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	0.00	0			1.0000					
POLE LINE	1C	F	DIRECT	0.00	0			0.0000					
CONDUIT	4C	F	DIRECT	0.00	0			0.0000					
TOTALS													

NOT BE GIVEN
 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO PUCO

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:\123R2\LCAT\CALC\CUPRGN			LOOP COST ANALYSIS TOOL					Bellcore [®]	
COLC PLANT - WORKSHEET :			PROSPECTIVE AND ANNUAL COSTS WORKSHEET					LCAT Release : 1.0.4	
Sheet 3 of 3			CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET					Issue Date : 8/31/95	
COMPANY: CINCINNATI BELL TEL			FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY					STUDY YR : 1996	
CITY / AREA : OHIO			FACILITY TYPE : COPPER DIG LOOP CXR					TEST CASE : 1	
STATE / PROV : CINCINNATI			CIRCUIT DESIGN : 1 C					DATE : 22-Jan-97	
			SERVICE CLASS : BAND 1 - BUSINESS LINE					TIME : 10:00 AM	
PLANT ITEM	ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ESS - ANALOG	77C	1.0000			0.4000				
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3455				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS									
			\$ 0	\$ 0		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
			\$ 0			\$ 0.00		\$ 0.00	
			FEED1SY			FEED1ANN		FEED1MRC	

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

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CA123R24\LCATCALC\CUPRGN		LOOP COST ANALYSIS TOOL				Bellcore TM	
CDLC PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT: PRIMARY FEEDER SEGMENT				Issued Date: 8/31/95	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 1: COPPER DIG LOOP CDR				STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND T - BUSINESS LINE				TEST CASE: 1	
						DATE: 22-Jan-97	
						TIME: 10:00 AM	
		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
		logic--14a				TOTAL	
		BAND MIX				AVG. WEIGHTED	
		1.0000				INVESTMENT	
PLANT ITEM		CODE	LGTH	6403			
		SEG.LGTH.	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	
AVG. WTD. SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	
NOTE: [sum(INV _{ACCT} * MIX _{SPAN})]							

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RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

22-Jan-97

Issued: 7/31/95

09:20

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 0 - 12000 FEET INTR

CURRENT TEST PLAN :

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

.....your run is finished

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LOOP COST ANALYSIS TOOL										Bellcore TM	
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 1 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 10:02	
PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TP1	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			0.2322					
10	BUILDING	10C	1.0000			0.2937					
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			0.3881					
17	CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881					
18	CO EQPT - HI CAP TERM	857C	1.0000			0.3881					
19	CO EQPT - HI CAP CHAN	857C	1.0000			0.3881					
20	CO EQPT - ANALOG SW	77C	1.0000			0.0000					
21	CO EQPT - DIGITAL SW	377C	1.0000			0.3458					
22	AERIAL CABLE (FIBER)	822C	1.0000			0.2983					
23	BURIED CABLE (FIBER)	845C	1.0000			0.2724					
24	UNDERGROUND (FO) CA.	85C	1.0000			0.2689					
25	CONNECTORS	57C	1.0000			0.3881					
26	MISC. COM EQP & PWR	57C	1.0000			0.3881					
27	POLE LINE	1C	1.0000			0.3807					
28	CONDUIT	4C	1.0000			0.2521					
TOTALS				\$ 0	\$ 0	\$ 0.00	\$ 0.00	\$ 0.00	\$ 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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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 12-Jul-96

TIME: 10:52

COMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

PLANT ITEM	LCAT CODE	PLANT CODE	WHEN BANDWIDTH DELIVERY IS					
			NARROWBAND		WIDEBAND		BROADBAND	
			SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE 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	V	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.

C:\123R24\LCATR076\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN

Bellcore⁽ⁿ⁾

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

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LOOP COST ANALYSIS TOOL

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

[SWITCHED] SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 10:52

PLANT ITEM	PLANT CODE	WHEN BANDWIDTH DELIVERY IS		NARROWBAND		WIDEBAND		BROADBAND	
		SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT
LAND	20C	F	SHARED	F	SHARED	F	SHARED	F	SHARED
BUILDING	10C	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
BURIED CABLE (COPPER) ①	45C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ①	5C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP TERM	257C	F	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - HI CAP TERM	857C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT
CO EQPT - HI CAP CHAN	857C	F	DIRECT	F	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - ANALOG SW	77C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - DIGITAL SW	377C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
AERIAL CABLE (FIBER)	822C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT
BURIED CABLE (FIBER)	845C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT
UNDERGROUND (FO) CA.	85C	V	DIRECT	V	DIRECT	F	DIRECT	F	DIRECT
CONNECTORS	57C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT
MISC. COM EQP & PWR	57C	V	SHARED	V	SHARED	V	SHARED	V	SHARED
POLE LINE	1C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT
CONDUIT	4C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAPS 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.

CA\123R24\LCATR076\COSTMETH

HELP SCREEN**Belcore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

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

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

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C:\123R24\LCAT\075\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore TM	
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 01:29 PM	
STUDY NAME		1996 BAND 1 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 0 - 12000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 1 - BUSINESS LINE		STUDY BASIS	
COMPANY		CINCINNATI BELL TEL		☒ NETWORK	
STATE / PROVINCE		OHIO		☐ INDIVIDUAL	
CITY / AREA		CINCINNATI		INVESTMENT YEAR	
DENSITY CELL MIX		0 100 0 0		1996	
		VH HI MED LO		LOOP CHAR. STUDY YEAR	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:				1996	
		Type Percent Mix :		STUDY YEAR	
		100 FIBER IN THE LOOP		TEST CASE	
		0 COPPER DIG LOOP CXR			

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CA123R24\LCAT076\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 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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C:\123R24\LCATR076\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]																									
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE		LCAT Ver. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-96 TIME: 01:29 PM																									
CONCERNING - SERVICE SPEC. <u>SELECTED QUESTIONS</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 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 ? <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. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">VALID RESPONSE SET</th> </tr> </thead> <tbody> <tr> <td>N or A</td> <td style="text-align: center;">NEW</td> </tr> <tr> <td>S or P</td> <td style="text-align: center;">SWITCHED</td> </tr> <tr> <td>N, W or B</td> <td style="text-align: center;">NARBAND</td> </tr> <tr> <td>2 or 4</td> <td style="text-align: center;">2</td> </tr> <tr> <td>0 → 100</td> <td style="text-align: center;">100</td> </tr> <tr> <td>0 → 100</td> <td style="text-align: center;">0</td> </tr> <tr> <td>0 → 100</td> <td style="text-align: center;">12000 Feet</td> </tr> <tr> <td>For D</td> <td style="text-align: center;">FLAT RATE</td> </tr> <tr> <td>For S</td> <td style="text-align: center;">DIST<!--</td--> </td></tr> <tr> <td>For T or M</td> <td style="text-align: center;">JOY INCR</td> </tr> <tr> <td>For 999</td> <td style="text-align: center;">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	12000 Feet	For D	FLAT RATE	For S	DIST </td	For T or M	JOY INCR	For 999	RATES PLAN
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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 up to a maximum of 5 Bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.
Nominally, entering **1** provides a "UNIT" cost and any other value, a "TOTAL" cost.

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C:\123R24\LCATR076\DESIGN		LOOP COST ANALYSIS TOOL		Bellcore
INPUT - LOOP_DESIGN Sheet 1 / 1		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS		LCAT Rel: 1.0.4 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 1 - BUSINESS LINE		TIME: 10:55

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="text-align: right; border: 1px solid black;">0.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="text-align: right; border: 1px solid black;">0.0000</td></tr> <tr><td>Weighting of Design #3</td><td style="text-align: right; border: 1px solid black;">1.0000</td></tr> <tr><td>Weighting of Design #4</td><td style="text-align: right; border: 1px solid black;">NA 0.0000</td></tr> <tr><td>Weighting of Design #5</td><td style="text-align: right; border: 1px solid black;">NA 0.0000</td></tr> <tr><td>Weighting of Design #6</td><td style="text-align: right; border: 1px solid black;">NA 0.0000</td></tr> <tr><td></td><td style="text-align: right; border: 1px solid black;">1.0000</td></tr> </table> ChkSum FOR COPPER DLC DESIGNS: <table style="width:100%;"> <tr><td>Weighting of Design #1</td><td style="text-align: right; border: 1px solid black;">0.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="text-align: right; border: 1px solid black;">NA 0.0000</td></tr> <tr><td></td><td style="text-align: right; border: 1px solid black;">1.0000</td></tr> </table> ChkSum '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	Weighting of Design #1	0.0000	Weighting of Design #2	NA 0.0000		1.0000
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																				
Weighting of Design #1	0.0000																				
Weighting of Design #2	NA 0.0000																				
	1.0000																				

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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*s 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 Xcops at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

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C:\123R24\LCATR076\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.0.4
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/95
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 1
		SERVICE CLASS: BAND 1 - BUSINESS LINE		LAST UPDATE: 12-Jul-96
				TIME: 10:57
FIBER CABLE INVESTMENT AND CHARACTERISTICS				
CABLE TYPE MIX (DISTRIBUTION TO CODE):		FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	
Proportion of FIBER cable installations that are		AERIAL	0.1800	0.0000 factors
		BURIED	0.0000	0.0000 factors
		UNDGRD	0.8200	0.0000 factors
INVESTMENT PER CABLE PAIR FOOT				
BY CABLE TYPE:				
Update Cable Sheath Prices on the FULL SET Input SHEET? (Y/N) ☐ N (Required with INDIVIDUAL Mode)				
If not, Update Unit Averages as Follows:				
PRIMARY SEGMENT				
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	per fiber pair Foot
		BURIED	\$ 0.2694	per fiber pair Foot
		UNDGRD	\$ 0.1688	per fiber pair Foot
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT				
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	\$ 0.0000 per fiber pair Foot
		BURIED	\$ 0.2694	\$ 0.0000 per fiber pair Foot
		UNDGRD	\$ 0.1688	\$ 0.0000 per fiber pair Foot
		(Fiber Hub to Remote Terminal)		(Remote Terminal to Service Point)

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CM123R24\LCATR076\FACILITY				LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN_INV SHEET 1A / 4				LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL				LCAT Ver: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO				FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57	
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE									
Cable Sheath Sizes		CAPACITY	INDEX	Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size					
				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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C:\123R24\LCAT070\FACILITY		LOOP COST ANALYSIS TOOL				Belcore (R)																																																													
TABLE - SPAN_INV SHEET 2 / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT COPPER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE				LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57																																																													
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																																																			
Cable Gauge Mix : <u>GAUGE</u> The Proportion of Copper Cable that is		FEEDER SEGMENT 0.1500 0.8500 0.0000		DISTRIBUTION SEGMENT 0.1500 0.8500 0.0000		Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge : Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y/N) N If not, Update																																																													
Cable Type Mix, By Gauge : The Proportion of Copper Cable that is		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td rowspan="3">26 GA.</td><td>AERIAL</td><td>0.1200</td><td>0.5900</td></tr> <tr><td>BURIED</td><td>0.0000</td><td>0.1600</td></tr> <tr><td>UNDGRND</td><td>0.8800</td><td>0.2500</td></tr> <tr><td rowspan="3">24 GA.</td><td>AERIAL</td><td>0.1200</td><td>0.5900</td></tr> <tr><td>BURIED</td><td>0.0000</td><td>0.1600</td></tr> <tr><td>UNDGRND</td><td>0.8800</td><td>0.2500</td></tr> <tr><td rowspan="3">22 GA.</td><td>AERIAL</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>BURIED</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>UNDGRND</td><td>0.0000</td><td>0.0000</td></tr> </table>		26 GA.	AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500	24 GA.	AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500	22 GA.	AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000	Average Unit Investment for Copper Cable Installed as		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td rowspan="3">26 GA.</td><td>AERIAL</td><td>0.0121</td><td>\$ 0.0397</td></tr> <tr><td>BURIED</td><td>\$ 0.0068</td><td>\$ 0.0657</td></tr> <tr><td>UNDGRND</td><td>\$ 0.0000</td><td>\$ 0.0569</td></tr> <tr><td rowspan="3">24 GA.</td><td>AERIAL</td><td>0.0121</td><td>\$ 0.0397</td></tr> <tr><td>BURIED</td><td>\$ 0.0068</td><td>\$ 0.0657</td></tr> <tr><td>UNDGRND</td><td>\$ 0.0000</td><td>\$ 0.0569</td></tr> <tr><td rowspan="3">22 GA.</td><td>AERIAL</td><td>\$ 0.0000</td><td>\$ 0.0000</td></tr> <tr><td>BURIED</td><td>\$ 0.0000</td><td>\$ 0.0000</td></tr> <tr><td>UNDGRND</td><td>\$ 0.0000</td><td>\$ 0.0000</td></tr> </table>		26 GA.	AERIAL	0.0121	\$ 0.0397	BURIED	\$ 0.0068	\$ 0.0657	UNDGRND	\$ 0.0000	\$ 0.0569	24 GA.	AERIAL	0.0121	\$ 0.0397	BURIED	\$ 0.0068	\$ 0.0657	UNDGRND	\$ 0.0000	\$ 0.0569	22 GA.	AERIAL	\$ 0.0000	\$ 0.0000	BURIED	\$ 0.0000	\$ 0.0000	UNDGRND	\$ 0.0000	\$ 0.0000
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	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.

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TABLE - SPAN INV SHEET 2A / 4		LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL										LCAT Ver: 1.0.4
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996										Issued: 07/31/95
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996										STUDY YR: 1996
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE										TEST CASE: 1
												LAST UPDATE: 12-Jul-96
												TIME: 10:57

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	UNOGRD	AERIAL	BURIED	UNOGRD	AERIAL	BURIED	UNOGRD
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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LCAT Rel: 1.0.4
Issued: 07/31/05

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

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LOOP COST ANALYSIS TOOL

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SPAN INV - WORKSHEET

Sheet 1 / 3

COPPER CABLE DISTRIBUTIONS MELDING

WORKSHEET A

LCAT R6: 1.0.4

Issue Date: 07/31/95

STUDY YR: 1996

TEST CASE: 1996

DATE: 1

LAST UPDATE: 12-Jul-96

TIME: 10:57

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 1 - BUSINESS LINE

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper_dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.590000	\$ 0.039700	0.1500	0.088500	\$ 0.005955
BURIED @ 26 GA.	0.160000	\$ 0.065700	0.1500	0.024000	\$ 0.008855
UNDGRND @ 26 GA.	0.250000	\$ 0.056900	0.1500	0.037500	\$ 0.008535
AERIAL @ 24 GA.	0.590000	\$ 0.039700	0.8500	0.501500	\$ 0.03745
BURIED @ 24 GA.	0.160000	\$ 0.065700	0.8500	0.136000	\$ 0.055845
UNDGRND @ 24 GA.	0.250000	\$ 0.056900	0.8500	0.212500	\$ 0.048365
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

--- TABLE 2 ---

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

Check = 1.000000

FOOTNOTES

--- TABLE 4 ---

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

[G=sum(E*Type)]

\$ 0.039700

\$ 0.065700

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C:\123R24\LCATR076\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A		LCAT Rpt: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 12-JUL-96 TIME: 10:57	
		SERVICE CLASS: BAND 1 - BUSINESS LINE			
MELDED CABLE INVESTMENT PER PAIR FOOT					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...tdr)	PER FOOT INVESTMENT (pfi...td)	CABLE GAUGE MIX (copper...tdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815
BURIED @ 26 GA.	0.000000	\$ 0.016600	0.1500	0.000000	\$ 0.002490
UNDGRND @ 26 GA.	0.880000	\$ 0.010900	0.1500	0.132000	\$ 0.001635
AERIAL @ 24 GA.	0.120000	\$ 0.012100	0.8500	0.102000	\$ 0.010285
BURIED @ 24 GA.	0.000000	\$ 0.016600	0.8500	0.000000	\$ 0.014110
UNDGRND @ 24 GA.	0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.009285
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=F*TYPE / sum(F*TYPE)]	[I=H*TYPE / sum(H*TYPE)]	[J=I*TYPE / sum(I*TYPE)]
AERIAL	0.120000	\$ 0.012100	\$ 0.012100	\$ 1.000000	\$ 1.000000
BURIED	0.000000	\$ 0.016600	\$ 0.016600	\$ 0.000000	\$ 0.000000
UNDERGRND	0.880000	\$ 0.010900	\$ 0.010900	\$ 1.000000	\$ 1.000000
Check = 1.000000					
FOOTNOTES					

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C:\123R24\LCATR076\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)
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 1 - BUSINESS LINE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 10:57
<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 50 Channel System has 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\LCATR076\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Belcore (R)
LCAT Rel : 07/31/95
Issued : 07/31/95

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

***** 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\LCATR076\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore TM	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS 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: 10:57	
		SERVICE CLASS: BAND 1 - BUSINESS LINE			
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT			
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT		
	[A]	[B]	[C=B/A]		
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000		
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000		
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000		
TABLE 4 DEVELOPMENT FOR:		COPPER CABLE UNIT INVESTMENT		FOR DLC Gauge: 24.00	
ADJUSTED PAIR / FOOT INVESTMENT	BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	- TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT	
DESCRIPTION	2 * (PF1cgg) [D]	(RPTR qgg) [E=C]	(ADLCFF1cgg) [F=D+E]	(ADLCFF1c) [G=2*F]	
AERIAL @ 26 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200	
BURIED @ 26 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200	
UNDGRND @ 26 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800	
AERIAL @ 24 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200	
BURIED @ 24 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200	
UNDGRND @ 24 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800	
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
NOTES:					
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.					

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C:\123R24\LCATR075\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]	
TABLE - SPAN_INV SHEET 4 / 4		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMP: COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		LAST UPDATE: 12-Jul-96 TIME: 10:57	
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.....	Aerial	0.00	Per Unit Installation.....	Aerial Termination	0
	Buried	0.00		Buried Termination	0
The Average Drop Wire & Building Entrance Cable Installation -					
Proportion of Loops that use..	Aerial Wire Drops	0.0000	Per Unit Installation.....	Aerial Wire Drops	\$ 0.00
	Buried Wire Drops	0.0000		Buried Wire Drops	\$ 0.00
	Bldg Entrance Cable	1.0000		Bldg Entrance Cable	\$ 75.00
	Aerial Coax/Wire Drops	0.0000		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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\\LCATR076\FACILITY
SPAN_INV
'4

HELP SCREEN

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

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

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3458
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	0.3581
POLE LINE	1.0000	0.0907
CONDUIT	1.0000	0.2344

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C:\123R24\LCATR076\INVEST		LOOP COST ANALYSIS TOOL			Bellcore (R)	
TABLE ~ EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR			LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996			STUDY YR : 1996	
CITY / AREA : CINCINNATI		SERVICE LEVEL: NARBAND			TEST CASE : 1	
STATE / PROV : OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE			LAST UPDATE: 12-Jul-96 10:58	
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)						
			CENTRAL OFFICE		REMOTE LOCATION	
			LINE	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	\$ 12.14	\$ 85.28	\$ 51.57
For an Integrated DLC Equipment Arrangement			\$ 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			\$ 19.60	\$ 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	\$ 0.00	\$ 0.00
4. For Fiber Ring Hub Arrangements (Extensions)			\$ 0.00	\$ 0.00	\$ 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\LCATR076\INVEST.WK1
TABLE - EQUIP_INV

HELP INFORMATION

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

LCAT Commands Description

This Command will allow the User -

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

Line Items Description

This Equipment Item Represents -

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

		See Circuit Designs :
COE Field Item 1	FTL/CDLC Hub Extension or FTL non-Hubbing Arrangements, CO End Equip.	2,3,4 & 6
REM Field Item 1	FTL/CDLC Hub Extension or FTL non-Hubbing Arrangements, REM End Equip.	2,3,4 & 6
COE Field Item 2	FTL Hubbed Arrangements, CO to HUB Span Equip, CO End.	1 & 5
REM Field Item 2	FTL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FTL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.	1 & 5
REM Field Item 4	FTL 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\LCATR076\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 1 - BUSINESS LINE		LCAT Rpt: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:59
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment	1.0000	
Building	1.0000			
ALL Copper Cables, or		ALL Digital Loop Carrier Equip., or	0.7000	
Copper Feeder Cable	0.6000	CO DLC Channel Unit	0.7000	
Copper Distribution Cable	0.3500	REM DLC Channel Unit	0.7000	
Copper Entrance Cable	1.0000	CO DLC Multiplex System	0.7000	
Copper Building Cable	0.3500	REM DLC Multiplex System	0.7000	
Copper Building Terminal	0.3500	CO Digital Signal Crossconnect Bay	0.7000	
		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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C:\123R24\LCATR076\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 1 - BUSINESS LINE		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:59																																																											
SEGMENT DISTRIBUTION FEEDER ② use <u>DEFAULT</u> POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <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> </table> CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>The Cable PFI is being Adjusted for DW ?</td> <td style="text-align: center;">NO</td> </tr> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </table> use <u>DEFAULT</u> ① ② for: CENT. OFC. REMOTE SITE LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <u>ALL</u> 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> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <u>ALL</u> 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> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <u>ALL</u> 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> </table>					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			Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			The Cable PFI is being Adjusted for DW ?	NO	Aerial Cable		Buried Cable		Underground Cable		Other or <u>ALL</u> ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or <u>ALL</u> ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or <u>ALL</u> 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 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.

***** 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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TABLE - ADDNL_INV
Sheet 2 of 2

HELP SCREEN

Bellcore^(R)

LCAT Rel : 1.0.4

Issued : 3/31/95

Copper Cable Pole Investment Factor	cpiff	__dst	__fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	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 VALUES BY THE SYSTEM.
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C:\123R24\LCATR076\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]												
INPUT - PLANT_CHAR. Sheet 1 / 5		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK 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 1 - BUSINESS LINE		STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 14:09												
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY																
LOOP TOPOLOGY Loop FEEDER Network Configuration Is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR				
ACTION SEGMENT																
PRIMARY	STAR															
PRIMARY	NA															
DISTRIBUTION	STAR															
SPAN LENGTHS		<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td>6403.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>636.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>5465.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			TOTAL LOOP	6403.0	DISTRIBUTION	636.0	SUB-PRIMARY	300.0	PRIMARY	5465.0	PRIMARY-EXTENSION			
TOTAL LOOP	6403.0															
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PRIMARY	5465.0															
PRIMARY-EXTENSION																
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;">DISTRIBUTION OF COST BANDS IN THE NETWORK</th> </tr> </thead> <tbody> <tr><td>BAND 1</td><td></td></tr> <tr><td>BAND 2</td><td></td></tr> <tr><td>BAND 3</td><td></td></tr> <tr><td>BAND 4</td><td></td></tr> <tr><td>BAND 5</td><td></td></tr> </tbody> </table>			DISTRIBUTION OF COST BANDS IN THE NETWORK		BAND 1		BAND 2		BAND 3		BAND 4		BAND 5	
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BAND 1																
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		LAST <table border="1" style="width: 100px; text-align: center;">1.0000</table> 1.0000 Hint														

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CA123R24\LCATR076\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 1 / 1		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR : 1996		STUDY YR : 1995	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		SERVICE CLASS : BAND 1 - BUSINESS LINE		LAST UPDATE : 12-JUL-95 TIME : 14:03	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
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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 for the BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth support. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the type 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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INPUT - PLANT_CRAR.		HELP SCREEN		LCAT Ver: 1.0.4	
Sheet 2 of 2				Issued: 07/31/96	
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.		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 1 - BUSINESS LINE				LAST UPDATE: 12-Jul-96	
						TIME: 14:03	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		CUMULATIVE	EFFECTIVE	CUMULATIVE	EFFECTIVE	CUMULATIVE	EFFECTIVE
		FEEDER	LENGTH BY	FEEDER	LENGTH BY	FEEDER	LENGTH BY
		LENGTH	PAIR FOOT	LENGTH	PAIR FOOT	LENGTH	PAIR FOOT
CAPACITY	idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E _U]
[C]							
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		AERIAL FIBER SUBTOTAL					
BURIED FIBER SUBTOTAL		BURIED FIBER SUBTOTAL					
UNDGRD FIBER SUBTOTAL		UNDGRD FIBER SUBTOTAL					
FIBER SUBTOTAL		FIBER SUBTOTAL					

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C:\123R24\LCATR076\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 FOR				LCAT Rev: 1.0.4 Issued: 07/31/95			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE: 1			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE				LAST UPDATE: 12-Jul-96			
TIME: 14:03									
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	

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INPUT - PLANT_CHAR.

Sheet 3a / 5

LOOP FACILITY INPUT

COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER

FOR

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

INVESTMENT YEAR: 1996

LOOP STUDY YEAR: 1996

SERVICE CLASS: BAND 1 - BUSINESS

LCAT Rel : 1.0.4

Issued : 07/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE: 12-Jul-96

TIME: 14:03

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A

CUMULATIVE LENGTHS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY 10X	26 GA.			24 GA.			22 GA.			0.0	tdrcprf
		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	0.0	tdrcprf
TOTALS				0.0			0.0			0.0		tdrcprf

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0.0

tdrcprf

0.0

tdrcprf

0.0

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LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR - WORKSHEET 3B
Sheet 3b / 5LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER
FORLCAT Rel : 1.0.4
Issued : 07/31/95

COMPANY: CINCINNATI BELL TEL.

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996STUDY YR : 1996
TEST CASE : 1

CITY / AREA: CINCINNATI

LAST UPDATE: 12-Jul-96

STATE: OHIO

SERVICE CLASS: BAND 1 - BUSINESS

TIME: 14:03

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	
60 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	foracti
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	foracti
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	foracti
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\LCATR076\SPAN		LOOP COST ANALYSIS TOOL				Bellcore				
INPUT - PLANT CHAR.		LOOP FACILITY INPUT				LCAT Rel: 1.0.4				
Sheet 4a / 5		COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER				Issued: 07/31/95				
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR: 1996				
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE: 1				
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS				LAST UPDATE: 12-Jul-96				
						TIME: 14:03				
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY IDR	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\LCATR076\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 43 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.		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996			
CITY / AREA: CINCINNATI								TEST CASE: 1			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS						LAST UPDATE: 12-Jul-96			
								TIME: 14:03			
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
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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Sheet 5 / 5

LOOP FACILITY INPUT

DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR

COMPANY: CINCINNATI BELL TEL

CITY / AREA: CINCINNATI

STATE/ PROV: OHIO

INVESTMENT YEAR: 1996

LOOP STUDY YEAR: 1996

SERVICE CLASS: BAND 1 - BUSINESS LINE

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 12-Jul-96

TIME: 14:03

FIBER BANDWIDTH

TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL

☐ BIDIRECTIONAL

LEVEL OF SERVICE:

	1	2	3	4	5	6	7			
BITRATE INDEX										
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	SERVICE	PROTECTION	WEIGHTED
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	LEVEL		EQUIVALENT
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE	n: 1	CHANNELS
								[SLM]	[E]	PER FO PR
										[F]
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

NOTICE: THIS IS UNCLASSIFIED

PRIOR TO RELEASE TO PUBLIC

CONFIDENTIAL

FOOTNOTES

1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 4 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 / 1COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOLCAT Rel: 1.0.4
Issued: 07/31/95STUDY YR: 1998
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 14:03

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)						
SELECT	MODE	HIERARCHY	BNW	WDT	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	5.1 Mbps		1	0.04 24 UNDIR, FIBER
4		VT2	2 Mbps		1	0 24 UNDIR, FIBER
5		ET1	2 Mbps		1	0.06 30 BIDIR, 2WCU CA
6	MODE1	DSTC	3.2 Mbps	NA		48 BIDIR, 2WCU CA
7	MODE2	DSTC	3.2 Mbps		2	0.07 48 BIDIR, 2WCU CA
8		VT3	3.2 Mbps		2	0.07 58 UNDIR, FIBER
9			4 Mbps		2	0 60
10		DS2	6.3 Mbps		4	0.14 72 BIDIR, 2WCU CA
11	MODE4	DS2	6.3 Mbps	NA		72 BIDIR, 2WCU CA
12		VT6	6.3 Mbps		4	0.14 84 UNDIR, FIBER
13		E2	8 Mbps		4	0.25 120 BIDIR, 2WCU CA
14		E3	34 Mbps		18	480
15	X	DS3	45 Mbps		28	1 672 BIDIR, 2WCU CA
16	STST	OC1	50 Mbps		28	1 672 UNDIR, FIBER
17	X		90 Mbps		2	1344 UNDIR, FIBER
18			90 Mbps		2	1344 BIDIR, MW RADIO
19		DS4	135 Mbps		3	2016 UNDIR, FIBER
20			135 Mbps		3	2016 BIDIR, MW RADIO
21		DS4NA	139 Mbps		3	2016 UNDIR, FIBER
22		E4	140 Mbps		3	1920 UNDIR, FIBER
23		14M	139 Mbps		6	4032 BIDIR, COAX
24		PT40	139 Mbps		6	4032 BIDIR, COAX
25	X	OC3	155 Mbps		3	2016 UNDIR, FIBER
26	X		180 Mbps		4	2880 UNDIR, FIBER
27			417 Mbps		8	6912 UNDIR, FIBER
28		OC9	466 Mbps		8	6912 UNDIR, FIBER
29		OC12	560 Mbps		12	17664 UNDIR, FIBER
30			565 Mbps		12	18048 UNDIR, FIBER
31			1.2 Gbps		24	34560 UNDIR, FIBER
32			1.7 Gbps		36	51840 UNDIR, FIBER
33		OC24	1.8 Gbps		24	34560 UNDIR, FIBER
34			2.5 Gbps		24	34560 UNDIR, FIBER
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 FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS I WORKSHEET F				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 14:03	
COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE: OHIO		DISTANCE INCREMENTS: 0.4 MILE BETWEEN BANDS NUMBER OF BANDS: 0 TO BE CARRIED INTO THE STUDY				ROUTE TO AIR RATIO: 1.539947 ratio UNIT MILE/FEET CONSTANT: 1320	
BAND NUMBER [C]	TOTAL WORKING FEET [D=input]	TOTAL WORKING FEET [E=(B*D)]	TOTAL AIR FEET [F=A*C*K]	LOOP LENGTH @ MIDPOINT [G (see note)]	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		

NOTE - SPAN MIDPOINT [G] equals the SORT((F_{curr}²/2) + (F_{prev}²/2))

ERROR MESSAG 0

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C:\123R24\LCATRO76\SPAN

PLANT CHART - WORKSHEET SA
Sheet 1 / 1
COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE/PROV: OHIO

LOOP COST ANALYSIS TOOL

Worksheet SA

BelcoreTM
LCAT R&I: T.O.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 14:05

Sub Feeder Allocation Table

OFFSET

	1	2	3	4	5	6	7	8	9	10
cur_lplgth = 8403										
dcldepl = 12000										
[B]distspa = 638										
nom_rangecur - disubfeeder										
[C] [D=C-I]										
500	0	0	0	0	0	0	0	0	0	6403
1000	362	362	0	362	0	500	0	500	0	5903
2000	1362	1362	0	1362	0	1000	0	1000	0	5403
3000	2362	2362	0	2362	0	2000	0	2000	0	4403
4000	3362	3362	0	3362	0	3000	0	3000	0	3403
5000	4362	4362	0	4362	0	4000	0	4000	0	2403
6000	5362	5362	0	5362	0	5000	0	5000	0	1403
7000	6362	6362	0	6362	0	6000	0	6000	0	403
8000	7362	7362	0	7362	0	7000	0	7000	0	-597
9000	8362	8362	0	8362	0	8000	0	8000	0	-1597
10000	9362	9362	0	9362	0	9000	0	9000	0	-2597
11000	10362	10362	0	10362	0	10000	0	10000	0	-3597
12000	11362	10362	5681	0	11362	6000	6000	0	12000	-5597
13000	12362	6181	6181	0	12362	6500	6500	0	13000	-6597
14000	13362	6681	6681	0	13362	7000	7000	0	14000	-7597
15000	14362	7181	7181	0	14362	7500	7500	0	15000	-8597
16000	15362	7681	7681	0	15362	8000	8000	0	16000	-9597
17000	16362	8181	8181	0	16362	8500	8500	0	17000	-10597
18000	17362	8681	8681	1000	16362	9000	9000	1000	18000	-11597
19000	18362	9181	9181	2000	16362	9500	9500	2000	19000	-12597
20000	19362	9681	9681	3000	16362	10000	10000	3000	20000	-13597
80000	79362	11362	68000	4000	75362	11362	66362	4900	76000	-73597

RULES

ASSUMPTION - Table LOOKUP will select from the lower NOM RANGE of a CUR_LPLGTH intermediate value

If CUR_LPLGTH is

- << DISTSPAN, then CUR_SEGGLGTH^{act} Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEGGLGTH^{star} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEGGLGTH^{prior} Equals CUR_LPLGTH - NOM_RANGE difference

CUR_SEGGLGTH - Calculation Assumptions

The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA.

Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.

OHIO ONLY
3 Geographic Areas

07/26/96
Revised

Band 1

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

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

Band 2

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

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

Band 3

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

4,845	1,981	6,826	4,512	1,095	5,608
46			23,881	8,479	27,360
23,301	4,826	28,127	23,881		
56			49		
0.4510			0.5075		
0.5490			0.4223		
1.0000			1.0000		

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NOTICE: NOT TO BE GIVEN
PRIOR TO RELEASE TO PUBLIC
BY JCO

A
B
C
D
E
F
GCA123R24LCATRUNVRESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORTBellcore[®]

LCAT Rel: 1.0.4

Issued: 7/31/95

1996

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 1 - BUSINESS LINE
TOTAL LOOP LENGTH: 15677 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:27Loop 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- INTERFACETOTAL
LOOP

PLANT

CODE

ITEM DESCRIPTION

SEG. LGTH.

SHARED RESOURCES

8	LAND	20C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0217
9	BUILDING	10C	\$ 0.64	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.6439
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	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0801
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	\$ 0.02	\$ 4.60	\$ 0.00	\$ 4.6200
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.78	\$ 0.00	\$ 1.7800
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 2.54	\$ 0.00	\$ 2.6900
37	CO EQPT - LOW CAP TERM	257C	\$ 2.38	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.3827
38	CO EQPT - LOW CAP CHAN	257C	\$ 3.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.9401
39	CO EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.7268
40	CO EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 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	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0258
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0632
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	\$ 0.01	\$ 0.00	\$ 0.01	\$ 1.10	\$ 0.00	\$ 1.1165
49	CONDUIT	4C	\$ 0.03	\$ 0.00	\$ 0.05	\$ 0.90	\$ 0.00	\$ 0.9810

SPAN SUMMARY

\$ 9.15 \$ 0.00 \$ 0.23 \$ 10.92 \$ 2.45

\$ 22.76

\$ 22.76

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C:\123R24\LCATRUNVRESULTS1
OUTPUT - COST_REPORTS

Bellcore[®]
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 12001 FEET - INFINITY INT

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	# CTS	1	16:01
CST METH	UNINCR	INV LEVEL	ANNCG	TIME

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your report is ready for viewing
MUST BE GIVEN
TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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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 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	Circuit Design Mix: 1.0000	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	PLANT NAME SEG. NAME EQPT CODE	PRIMARY	EXTENSION	SUB-	DISTRIBUTION NETWORK INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
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20									
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55									

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C:\123R24\LCATRUN\RESULTS1		LOOP COST ANALYSIS TOOL				Belcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 2 of 10		COMPANY: CINCINNATI BELL TEL				Issued: 7/31/95	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 2 CDLC				STUDY YR: 1996	
STATE / PROV: OHIO		LOOP SPAN DIVISION: ALL LOOP SPANS				TEST CASE: 1	
JOB IDENT: CINCINNATI		SERVICE CLASS: BAND 1 - BUSINESS LINE				DATE: 22-Jan-97	
		TOTAL LOOP LENGTH: 15677 FEET				TIME: 10:27	
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				LOOP	
EQPT		INTERFACE				LOOP	
CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C				\$0	\$0
9	BUILDING	10C				\$0	\$0
10	BLDG ENTRANCE CABLE	12C				\$0	\$0
11	INTRABLDG CABLE	52C				\$0	\$0
12	AERIAL CABLE (COPPER)	22C				\$0	\$0
13	BURIED CABLE (COPPER)	45C				\$0	\$0
14	UNDERGROUND (CU) CA.	5C				\$0	\$0
15	CO EQPT - LOW CAP TERM	257C				\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
17	CO EQPT - HI CAP TERM	857C				\$0	\$0
18	CO EQPT - HI CAP CHAN	857C				\$0	\$0
19	CO EQPT - ANALOG SW	77C				\$0	\$0
20	CO EQPT - DIGITAL SW	377C				\$0	\$0
21	AERIAL CABLE (FIBER)	822C				\$0	\$0
22	BURIED CABLE (FIBER)	845C				\$0	\$0
23	UNDERGROUND (FO) CA.	85C				\$0	\$0
24	CONNECTORS	57C				\$0	\$0
25	MISC. COM EQP & PWR	57C				\$0	\$0
26	POLE LINE	1C				\$0	\$0
27	CONDUIT	4C				\$0	\$0
DIRECT RESOURCES							
30	LAND	20C				\$0	\$0
31	BUILDING	10C				\$0	\$0
32	BLDG ENTRANCE CABLE	12C				\$0	\$0
33	INTRABLDG CABLE	52C				\$0	\$0
34	AERIAL CABLE (COPPER)	22C				\$0	\$0
35	BURIED CABLE (COPPER)	45C				\$0	\$0
36	UNDERGROUND (CU) CA.	5C				\$0	\$0
37	CO EQPT - P GAIN TERM	257C				\$0	\$0
38	CO EQPT - P GAIN CHAN	257C				\$0	\$0
39	CO EQPT - FO MUX TERM	857C				\$0	\$0
40	CO EQPT - FO MUX CHAN	857C				\$0	\$0
41	CO EQPT - ANALOG SW	77C				\$0	\$0
42	CO EQPT - DIGITAL SW	377C				\$0	\$0
43	AERIAL CABLE (FIBER)	822C				\$0	\$0
44	BURIED CABLE (FIBER)	845C				\$0	\$0
45	UNDERGROUND (FO) CA.	85C				\$0	\$0
46	CONNECTORS	57C				\$0	\$0
47	MISC. COM EQP & PWR	57C				\$0	\$0
48	POLE LINE	1C				\$0	\$0
49	CONDUIT	4C				\$0	\$0
SPAN SUMMARY						\$0	\$0
CIRCUIT DESIGN SUMMARY						\$0	\$0

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A B C D E F G	LOOP COST ANALYSIS TOOL									
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY									
0	CR123R24\LCATRUNVRESULTS1 OUTPUT - WORKSHEET D SHEET 3 of 10									
1	COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI									
2	CIRCUT DESIGN: MELDED CDLC LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 1 - BUSINESS LINE TOTAL LOOP LENGTH: 15677 FEET									
3	LCAT Rel: 1.0.4 Issued: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 10:27									
4	Technology Type Mix: 0.0000 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
5	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK SEG. NAME PRIMARY EXTENSION SUB- INTERFACE EQPT CODE									
6	PLANT ITEM DESCRIPTION									
7	SHARED RESOURCES									
8	LAND	20C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.02	\$ 0.0000	TECHNOLOGY WEIGHTED TOTAL LOOP
9	BUILDING	10C	\$ 0.49	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.49	\$ 0.0000	
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
24	CONNECTORS	57C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
26	POLE LINE	1C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
28										
29	DIRECT RESOURCES									
30	LAND	20C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000	
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34	AERIAL CABLE (COPPER)	22C	\$ 0.27	\$ 0.00	\$ 0.02	\$ 4.60	\$ 0.00	\$ 4.89	\$ 0.0000	
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.78	\$ 0.00	\$ 1.78	\$ 0.0000	
36	UNDERGROUND (CU) CA.	5C	\$ 1.84	\$ 0.00	\$ 0.15	\$ 2.54	\$ 0.00	\$ 4.53	\$ 0.0000	
37	CO EQPT - P GAIN TERM	257C	\$ 3.10	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.10	\$ 0.0000	
38	CO EQPT - P GAIN CHAN	257C	\$ 3.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.94	\$ 0.0000	
39	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
40	CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
46	CONNECTORS	57C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
48	POLE LINE	1C	\$ 0.06	\$ 0.00	\$ 0.01	\$ 1.10	\$ 0.00	\$ 1.17	\$ 0.0000	
49	CONDUIT	4C	\$ 0.58	\$ 0.00	\$ 0.05	\$ 0.00	\$ 0.00	\$ 1.53	\$ 0.0000	
50										
51	SPAN SUMMARY		\$ 10.30	\$ 0.00	\$ 0.23	\$ 10.92	\$ 2.45	\$ 23.90	\$ 0.00	
52	TECHNOLOGY DESIGN SUMMARY							\$ 23.90		
53										
54										
55										

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C:\123R24\LCATRUN\RESULTS1		LOOP COST ANALYSIS TOOL				Bellicore (R)	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 4 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		RUN DATE: 22-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 15677 FEET		TIME: 10:27			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEQ. NAME		PRIMARY		EXTENSION		SUB--	
EQPT		INTERFACE				TOTAL	
CODE						LOOP	
PLANT							
ITEM DESCRIPTION							
<u>SHARED RESOURCES</u>							
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	
<u>DIRECT RESOURCES</u>							
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	
						\$0	

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C:\123R24\LCATRUN\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		RUN DATE: 22-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 15677 FEET		TIME: 10:27			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		LOOP	TOTAL
SEG. NAME		PRIMARY EXTENSION		SUB- INTERFACE			LOOP
EQPT							
CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
LAND		20C				\$0	\$0
BUILDING		10C				\$0	\$0
BLDG ENTRANCE CABLE		12C				\$0	\$0
INTRABLDG CABLE		52C				\$0	\$0
AERIAL CABLE (COPPER)		22C				\$0	\$0
BURIED CABLE (COPPER)		45C				\$0	\$0
UNDERGROUND (CU) CA.		5C				\$0	\$0
CO EQPT - LOW CAP TERM		257C				\$0	\$0
CO EQPT - LOW CAP CHAN		257C				\$0	\$0
CO EQPT - HI CAP TERM		857C				\$0	\$0
CO EQPT - HI CAP CHAN		857C				\$0	\$0
CO EQPT - ANALOG SW		77C				\$0	\$0
CO EQPT - DIGITAL SW		377C				\$0	\$0
AERIAL CABLE (FIBER)		822C				\$0	\$0
BURIED CABLE (FIBER)		845C				\$0	\$0
UNDERGROUND (FO) CA.		85C				\$0	\$0
CONNECTORS		57C				\$0	\$0
MISC. COM EQP & PWR		57C				\$0	\$0
POLE LINE		1C				\$0	\$0
CONDUIT		4C				\$0	\$0
DIRECT RESOURCES							
LAND		20C				\$0	\$0
BUILDING		10C				\$0	\$0
BLDG ENTRANCE CABLE		12C				\$0	\$0
INTRABLDG CABLE		52C				\$0	\$0
AERIAL CABLE (COPPER)		22C				\$0	\$0
BURIED CABLE (COPPER)		45C				\$0	\$0
UNDERGROUND (CU) CA.		5C				\$0	\$0
CO EQPT - LOW CAP TERM		257C				\$0	\$0
CO EQPT - LOW CAP CHAN		257C				\$0	\$0
CO EQPT - HI CAP TERM		857C				\$0	\$0
CO EQPT - HI CAP CHAN		857C				\$0	\$0
CO EQPT - ANALOG SW		77C				\$0	\$0
CO EQPT - DIGITAL SW		377C				\$0	\$0
AERIAL CABLE (FIBER)		822C				\$0	\$0
BURIED CABLE (FIBER)		845C				\$0	\$0
UNDERGROUND (FO) CA.		85C				\$0	\$0
CONNECTORS		57C				\$0	\$0
MISC. COM EQP & PWR		57C				\$0	\$0
POLE LINE		1C				\$0	\$0
CONDUIT		4C				\$0	\$0
SPAN SUMMARY		\$0		\$0		\$0	\$0
						\$0	\$0

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A 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 MM 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 NN 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 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	Circuit Design Mix : 1.0000	PLANT NAME SEG. NAME EQPT CODE	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL LOOP	WEIGHTED TOTAL LOOP
			PRIMARY	EXTENSION	SUB-	DISTRIBUTION NETWORK INTERFACE		
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
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GC:\123R24\LCATRUNVRESULTS1
OUTPUT - WORKSHEET D
SHEET 7 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 4 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS LINE
TOTAL LOOP LENGTH: 15677 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:27

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

WEIGHTED

	PLANT NAME	SEG. NAME	EQPT CODE	FEEDER					DISTRIBUTION NETWORK		TOTAL LOOP	TOTAL LOOP
				PRIMARY	EXTENSION	SUB-			INTERFACE			
0												
1												
2												
3												
4												
5												
6												
7												
8												
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GC:\123R24\LCATRUN\RESULTS1
OUTPUT - WORKSHEET D
SHEET 8 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: 10:27COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 5 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS LINE
TOTAL LOOP LENGTH: 15677 FEET

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

WEIGHTED

	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	TOTAL		
	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP
	EQPT						
	CODE						
3							
4							
5	PLANT						
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
52							
53						\$0	
54							
55							

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

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GC:\123R24\LCATRUN\RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:27COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELED
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS LINE
TOTAL LOOP LENGTH: 15677 FEET

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	EQPT	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP	TOTAL
PLANT	CODE							
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.02	\$ 0.0217
BUILDING	10C	\$ 0.64	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.64	\$ 0.6439
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	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.0801
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	\$ 2.4513
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	\$ 0.02	\$ 4.60	\$ 0.00	\$ 4.62	\$ 4.6200
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.78	\$ 0.00	\$ 1.78	\$ 1.7800
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 2.54	\$ 0.00	\$ 2.69	\$ 2.6900
CO EQPT - LOW CAP TERM	257C	\$ 2.38	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.38	\$ 2.3827
CO EQPT - LOW CAP CHAN	257C	\$ 3.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.94	\$ 3.9401
CO EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.73	\$ 0.7268
CO EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.23	\$ 1.2325
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	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0258
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.0632
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	\$ 0.01	\$ 0.00	\$ 0.00	\$ 1.10	\$ 0.00	\$ 1.12	\$ 1.1165
CONDUIT	4C	\$ 0.03	\$ 0.00	\$ 0.05	\$ 0.90	\$ 0.00	\$ 0.98	\$ 0.9810
SPAN SUMMARY		\$ 9.15	\$ 0.00	\$ 0.23	\$ 10.92	\$ 2.45	\$ 22.76	\$ 22.76
							\$ 22.76	

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CA123R24\LCATCALC\DIST

Bellcore^(R)

RUN - DIST PLNT

LCAT

Release: 1.0.4

Issued: 8/31/95

LAST UPDATE

22-Jan-97

09:58

LOOP COST ANALYSIS TOOL

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 12001 FEET - II

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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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.)

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

SERVICE CLASS : BAND 1 - BUSINESS LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

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

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LOOP COST ANALYSIS TOOL										Bellcore (M)	
C:\123R24\LCATCALCDIST		ACCOUNT INVESTMENT WORKSHEET						LCAT Release : 1.0.4			
DIST PLANT - WORKSHEET A		SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL						Issue Date : 8/31/95		1996	
Sheet 2 of 3		FACILITY TYPE : COPPER CABLE						STUDY YR :		1	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT : DISTRIBUTION PLANT(NON-DLC,NON-COLLOC)						TEST CASE:		22-Jan-97	
CITY / AREA: CINCINNATI		SERVICE CLASS : BAND 1 - BUSINESS LINE						RUN DATE :		10:19	
STATE / PROV: OHIO								TIME :			
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION		
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	47.92	1		\$ 48	0.3500		\$ 137	
BURIED CABLE (COPPER)	45C	V	DIRECT	21.51	1		\$ 22	0.3500		\$ 61	
UNDERGROUND (CU) CA.	5C	V	DIRECT	29.10	1		\$ 29	0.3500		\$ 83	
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	34.64				1.0000		\$ 35	
CONDUIT	4C	F	DIRECT	42.95				1.0000		\$ 43	

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distribv

FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

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

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

C:\123R24\LCATCALC.DIST
DIST PLANT - 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-COLLCC)
SERVICE CLASS: BAND 1 - BUSINESS LINE

Bellcore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

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

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] [L]	DIRECT RESOURCES [M'=K'*L] [M]		SHARED RESOURCES [P=M*N] [P]	DIRECT RESOURCES [P'=M'*N] [P']	SHARED RESOURCES [R=P/12] [R]	DIRECT RESOURCES [R'=P'/12] [R']
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 137	0.4033		\$ 55.22		\$ 4.60
BURIED CABLE (COPPER)	45C	1.0000		\$ 61	0.3467		\$ 21.30		\$ 1.78
UNDERGROUND (CU) CA.	5C	1.0000		\$ 83	0.3663		\$ 30.46		\$ 2.54
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2669				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 35	0.3807				
CONDUIT	4C	1.0000		\$ 43	0.2521				
TOTALS									

distshrinv distdirinv
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\$ 131.00 \$ 131.00 \$ 0.00 \$ 10.92
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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.

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS LINE

Bellicore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

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) = 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

C:\123R24\LCAT\CALC\DIST
DIST PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 1 - BUSINESS LINE

Belcore®
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
					SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F SHARED					1.0000		
BUILDING	10C	F SHARED					1.0000		
BLDG ENTRANCE CABLE	12C	V DIRECT	75.00	1		\$ 75	1.0000		\$ 75
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					0.0000		
MISC. COM EQP & PWR	57C	V SHARED					1.0000		
POLE LINE	1C	F DIRECT	0.00				1.0000		
CONDUIT	4C	F DIRECT					1.0000		

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

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

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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

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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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DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Bellicore (R)

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

22-Jan-97

10:19

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS LINE

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

POLE LINE FACTOR (PLF) =

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

from invest
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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

C:\123R24\LCAT\CALC\DIST

LOOP COST ANALYSIS TOOL

Bellcore[®]

DIST_PLANT - WORKSHEET B

ACCOUNT INVESTMENT WORKSHEET

LCAT

Sheet 2 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESSRelease: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

SERVICE CLASS: BAND 1 - BUSINESS LINE

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION		SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES
				[F]	[G]	[H=F*G]	[H'=F'*G]	[J]	[K=H/J]	[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		
14 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		

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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.

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:19

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 1 - BUSINESS LINE

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			0.2521				
CONDUIT	4C	1.0000							
TOTALS									
			\$ 0	\$ 75		\$ 29.42	\$ 29.42	\$ 0.00	\$ 2.45

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

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C:\123R24\LCAT\CALC\DIST				LOOP COST ANALYSIS TOOL				Bellcore (R)	
DIST_PLNT - REPORT 14A				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3				COMPANY: CINCINNATI BELL TEL.				Issue Date: 6/31/95	
CITY / AREA: CINCINNATI				FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
STATE / PROV: OHIO				CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DECON-COLLOC)				TEST CASE: 1	
				SERVICE CLASS: BAND 1 - BUSINESS LINE				RUN DATE: 22-Jan-97	
								TIME: 10:19	
logic-14a				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
BAND				0				TOTAL	
MIX				1.0000				AVG. WEIGHTED	
ACCT								INVESTMENT	
CODE				15677					
SEG. LGTH.				2046.0				2046	
SHARED RESOURCES									
7	LAND	20C							\$ 0.00
8	BUILDING	10C							\$ 0.00
9	BLDG ENTRANCE CABLE	12C							\$ 0.00
10	INTRABLDG CABLE	52C							\$ 0.00
11	AERIAL CABLE (COPPER)	22C							\$ 0.00
12	BURIED CABLE (COPPER)	45C							\$ 0.00
13	UNDERGROUND (CU) CA.	5C							\$ 0.00
14	CO EQPT - P GAIN TERM	257C							\$ 0.00
15	CO EQPT - P GAIN CHAN	257C							\$ 0.00
16	CO EQPT - FO MUX TERM	857C							\$ 0.00
17	CO EQPT - FO MUX CHAN	857C							\$ 0.00
18	CO EQPT - ANALOG SW	77C							\$ 0.00
19	CO EQPT - DIGITAL SW	377C							\$ 0.00
20	AERIAL CABLE (FIBER)	822C							\$ 0.00
21	BURIED CABLE (FIBER)	845C							\$ 0.00
22	UNDERGROUND (FO) CA.	85C							\$ 0.00
23	CONNECTORS	57C							\$ 0.00
24	MISC. COM EQP & PWR	57C							\$ 0.00
25	POLE LINE	1C							\$ 0.00
26	CONDUIT	4C							\$ 0.00
DIRECT RESOURCES									
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	\$ 4.60						\$ 4.60
34	BURIED CABLE (COPPER)	45C	\$ 1.78						\$ 1.78
35	UNDERGROUND (CU) CA.	5C	\$ 2.54						\$ 2.54
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	\$ 1.10						\$ 1.10
48	CONDUIT	4C	\$ 0.90						\$ 0.90
SPAN SUMMARY				\$ 10.92	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AVG. WTD. SPAN SUMMARY				\$ 10.92	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: [sum(INV _{ACCT} BAND * MIX BAND)]									\$ 10.92

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C:\123R24\LCAT\CALC\CUTECH
RUN - SUB PRI

LAST UPDATE

22-Jan-97

10:00

LOOP COST ANALYSIS TOOL

Belcore (R)
LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 12004 FEET - IN

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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SUB_PRI - 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 1 - BUSINESS LINE

Bellcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:21

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 -- MLO CABLE DESIGN INVEST. PER PAIR FOOT		CABLE COMPONENTS--			
		[B]	[D]		CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]	
300	AERIAL	0.120000	36.00	0.012100	0.44	0.00	0.00			
MELDED GAUGE/S/ COPPER	BURIED	0.000000	0.00	0.016600	0.00	0.00	0.00			
CABLE	UNDERGRND	0.880000	264.00	0.010900	2.88	0.00	0.00			
CHECK =		1.000000								

23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS
24 INVESTMENT PER CIRCUIT TERMINATION
25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00
26 inv / unit lgth: inv rtn fctr: 0.000000 0.253000
27 POLE LINE FACTOR = 0.000000
28 POLE LINE INVESTMENT = \$ 0.18
29 (UTIL AERIAL INVEST x PLF)
30
31 UG CONDUIT FACTOR = 0.000000 0.516500
32 CONDUIT INVESTMENT = \$ 2.48
33 (UTIL UNDGRND INVEST x UCf)
34
35
36
37
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42
43
44
45
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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 = 0.12700
MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00
LAND FACTOR = 0.000000
LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00
BUILDING FACTOR = 0.13160
BLDG NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00
PERCENT OF CO CONN TO DIGITAL SWITCHES = 100.0000
PERCENT OF CO CONN TO ANALOG SWITCHES = 0.0000

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SUB_PRI - WORKSHEET
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: WELDED GAUGES SUB-PRIMARY

Belcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 10:21

SERVICE CLASS: BAND 1 - BUSINESS LINE

PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. 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	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.44	1		\$ 0	0.6000		\$ 1
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	2.68	1		\$ 3	0.6000		\$ 5
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					1.0000		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		\$ 0
POLE LINE	1C	F	DIRECT	0.18				2.0000		\$ 2
CONDUIT	4C	F	DIRECT	2.48				2.0000		\$ 8
TOTALS										\$ 8

FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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CM23R24\LCAT\CALC\CUTECH				LOOP COST ANALYSIS TOOL				Bellcore (R)	
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 1 - BUSINESS LINE				TEST CASE: 1	
								RUN DATE : 22-Jan-97	
								TIME : 10:21	
				logic-14a				(SEE NOTE)	
				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				TOTAL	
								AVG. WEIGHTED	

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RUN - CDLC PLANT

LAST UPDATE

22-Jan-97

10:02

LOOP COST ANALYSIS TOOL

BellcoreTM
LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 12001 FEET - INFINITY INTRAST.

CURRENT TEST PLAN: CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NAR BAND	#CKTS
CST METH	UN INCR	INV. LEVEL

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LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

C:\123R24\LCATCALC\CUPRGN
CDLC PLANT - WORKSHEET 1
Sheet 1 of 3

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

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY
FACILITY TYPE: COPPER DIG LOOP CXR
CIRCUIT DESIGN: T1C
SERVICE CLASS: BAND 1 - BUSINESS LINE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
DATE: 22-Jan-97
TIME: 10:29 AM

15677 cur_lgth
300 cursldr_lgth
f = 0.125 pgfactor

SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF CA. PLANT	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT	MELDED INVEST. PER UNIT FOOT	CABLE COMPONENTS (NOTE 5)		(NOTE 4)		(NOTE 3)	
					INVESTMENT PER CHAN [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR [E*factr]	DROP WIRE ADJUSTMENT PER PAIR [E*factr]	WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]	
[A]		[B]	[C=A*B*f]	[D]						
13331	AERIAL	0.120000	199.97	0.024200	\$ 4.84		\$ 0.00			
CO TO RT LINK										
ON	BURIED	0.000000	0.00	0.033200	\$ 0.00		\$ 0.00			
COPPER CABLE DLC										
24.00 GA. FACILITIES	UNDERGRND	0.880000	1466.41	0.021800	\$ 31.97		\$ 0.00			
		1.000000								
OUTSIDE PLANT LOADINGS (NOTE 5):										
ADJUST. / LOAD FACTORS TO AERIAL PFI			DROP WIRE	AIR DRYER	EQUIPMENT INVESTMENT LOADINGS					
ADJUST. / LOAD FACTORS TO BURIED PFI			NA	0.0000	INVEST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00					
ADJUST. / LOAD FACTORS TO UGD PFI			NA	0.0000	MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127					
DLC EQUIPMENT INVEST. (NOTE 2):			NA	0.0000	MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127					
INT DLC EQUIP INVEST. (CU COMUX) =	intdlcco	\$ 0.00	\$ 0.00		MCE&P INVST. (CU REMMUX x MCEP) = \$ 15.42					
INT DLC EQUIP INVEST. (CU RTMUX) =	intdlcrt	\$ 51.57	\$ 85.28		MCE&P INVST. (CDLCMUX x MCEP) = \$ 0.00					
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdlcco	\$ 12.14	\$ 87.51		MCE&P INVST. (CO CONN x MCEP) = \$ 0.00					
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdlcrt	\$ 51.57	\$ 85.28		OTHER INVESTMENT					
DLC EQUIP INVEST. (CU LINE) =	dlcco	\$ 0.00	\$ 0.00		LAND FACTOR FOR DLC (LANDf_rem) = 0.0056					
					LAND FACTOR FOR DLC (LANDf_c.o.) = 0.0056					
					LAND INVST. (CU COMUX+MCEP) x LANDf = \$ 0.85					
					LAND INVST. ((CO CONN+MCEP) x LANDf) = \$ 0.00					
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgmvst		\$ 4.17			BUILDING FACTOR FOR DLC (BLDGf_rem) = 0.1316					
OTHER INVESTMENT					BUILDING FACTOR FOR DLC (BLDGf_c.o.) = 0.1316					
POLE LINE FACTOR (PLf) =		0.0000	0.2530		BLDG INVST. (CDLCMUX+MCEP) x BLDGf = \$ 20.04					
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		\$ 2.04			BLDG INVST. ((CO CONN+MCEP) x BLDGf) = \$ 0.00					
UGD CONDUIT FACTOR (UCf) =		0.0000	0.51		LOOP TOPOLOGY					
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) =		\$ 27.52			NOTICE MUST BE GIVEN					
					AVERAGE NUMBER OF HUBS					
					ADDITIONAL LENGTH OF LINE OSP REQUIRED					
					MIX OF CENT. OFC. ANALOG INTFC					
					MIX OF CENT. OFC. DIGITAL INTFC					
					MIX OF UNIVERSAL DLC INTFC					
					MIX OF INTEGRATED DIGITAL 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 WORKSEET B: FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.										
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.										
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.										

STAR NA
NA
0.0000
1.0000
0.0000
1.0000

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CA123R24LCATCALCICUPRGN		LOOP COST ANALYSIS TOOL										Bellcore (v)	
CDLG PLANT - WORKSHEET 1		ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
Sheet 2 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 6/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1998	
CITY / AREA: OHIO		FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: T C										DATE: 22-Jan-97	
		SERVICE CLASS: BAND 1 - BUSINESS LINE										TIME: 10:23 AM	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE LOCATION	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	0.85	1	\$ 1		1.0000	\$ 1				
BUILDING	10C	F	SHARED	20.17	1	\$ 20		1.0000	\$ 20				
BLDG ENTRANCE CABLE	12C	---	---					1.0000					
INTRABLDG CABLE	52C	---	---					0.3500					
AERIAL CABLE (COPPER)	22C	V	DIRECT	4.84	1		\$ 5	0.6000		\$ 8			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000					
UNDERGROUND (CU) CA.	5C	V	DIRECT	36.13	1		\$ 36	0.6000		\$ 60			
CO EQPT - P GAIN TERM	257C	F	DIRECT	66.99	1		\$ 67	0.7000		\$ 96			
CO EQPT - P GAIN CHAN	257C	V	DIRECT	85.28	1		\$ 85	0.7000		\$ 122			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000					
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000					
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00				1.0000					
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00				1.0000					
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300					
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300					
UNDERGROUND (FO) CA.	85C	F	DIRECT					1.0000					
CONNECTORS	57C	V	DIRECT					1.0000					
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000					
POLE LINE	1C	F	DIRECT	2.04				1.0000					
CONDUIT	4C	F	DIRECT	27.52				1.0000					
TOTALS													

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\$ 2

\$ 28

\$ 315

\$ 336

FEEDTY

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

PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT SHARED RESOURCES [M=K*L] DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT SHARED RESOURCES [P=M*N] DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT SHARED RESOURCES [R=P/12] DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000	\$ 1	0.2322	\$ 0.20	\$ 0.02	
BUILDING	10C	1.0000	\$ 20	0.2937	\$ 5.92	\$ 0.49	
BLDG ENTRANCE CABLE	12C	1.0000		0.3922			
INTRABLDG CABLE	52C	1.0000		0.3922			
AERIAL CABLE (COPPER)	22C	1.0000	\$ 8	0.4033	\$ 3.25	\$ 0.27	
BURIED CABLE (COPPER)	45C	1.0000		0.3457			
UNDERGROUND (CU) CA.	5C	1.0000	\$ 60	0.3663	\$ 22.06	\$ 1.84	
CO EQPT - P GAIN TERM	257C	1.0000	\$ 96	0.3851	\$ 37.14	\$ 3.10	
CO EQPT - P GAIN CHAN	257C	1.0000	\$ 122	0.3851	\$ 47.28	\$ 3.94	
CO EQPT - FO MUX TERM	857C	1.0000		0.3851			
CO EQPT - FO MUX CHAN	857C	1.0000		0.3851			
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		0.3851			
MISC. COM EQP & PWR	57C	1.0000		0.3851			
POLE LINE	1C	1.0000	\$ 2	0.3807	\$ 0.78	\$ 0.06	
CONDUIT	4C	1.0000	\$ 28	0.2521	\$ 0.84	\$ 0.58	
TOTALS			\$ 21	\$ 315	\$ 6.12	\$ 0.51	
				\$ 33	\$ 117.45	\$ 9.79	
				\$ 123.57		\$ 10.30	
				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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C:\123R24\LCAT\CALC\CUPRGN				LOOP COST ANALYSIS TOOL				Bellcore (R)	
CDLG PLANT - REPORT 14.1				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3				COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT: PRIMARY FEEDER SEGMENT				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI				CIRCUIT DESIGN: T1 COPPER DIG LOOP CXR				STUDY YR: 1996	
STATE / PROV: OHIO				SERVICE CLASS: BAND T - BUSINESS LINE				TEST CASE: 1	
								DATE: 22-Jan-97	
								TIME: 10:24 AM	
logic-14a				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND				0				TOTAL	
PLANT MIX				1.0000				AVG. WEIGHTED	
ACCT AVG								INVESTMENT	
PLANT ITEM				CODE LGTH				13331	
SEG.LGTH.				13331					
SHARED RESOURCES									
LAND 20C				\$ 0.02				\$ 0.02	
BUILDING 10C				\$ 0.49				\$ 0.49	
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								\$ 0.00	
POLE LINE 1C								\$ 0.00	
CONDUIT 4C								\$ 0.00	
DIRECT RESOURCES									
LAND 20C								\$ 0.00	
BUILDING 10C								\$ 0.00	
BLDG ENTRANCE CABLE 12C								\$ 0.00	
INTRABLDG CABLE 52C								\$ 0.00	
AERIAL CABLE (COPPER) 22C				\$ 0.27				\$ 0.27	
BURIED CABLE (COPPER) 45C								\$ 0.00	
UNDERGROUND (CU) CA. 5C				\$ 1.84				\$ 1.84	
CO EQPT - P GAIN TERM 257C				\$ 3.10				\$ 3.10	
CO EQPT - P GAIN CHAN 257C				\$ 3.94				\$ 3.94	
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				\$ 0.06				\$ 0.06	
CONDUIT 4C				\$ 0.58				\$ 0.58	
SPAN SUMMARY				10.30 0.00 0.00				10.30	
AVG. WTD. SPAN SUMMARY				10.30 0.00 0.00				10.30	
NOTE: [sum(INV _{ACCT} * WTD. LGTH) = MIX * WTD. LGTH]									

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Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

22-Jan-97

Issued: 7/31/95

10:04

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS LINE STUDY 12001 FEET - INFINI

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI		
BASIS	NETWORK	TEST CASE 1
FR / DS	FLAT RATE	#BANDS 0
SVC LEVEL	NARBAND	#GIVEN
CST METH	UN INCE	NAV LEVEL
		MAIN COST

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Printed 22-Jan-97 RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL. RATES PLAN

LOOP COST ANALYSIS TOOL										Bellcore (R)	
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 1 - BUSINSERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 10:25	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION DIRECT RESOURCES	
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]	
9 LAND	20C	F	SHARED	1.12	1	\$ 1		1.0000	\$ 1		
10 BUILDING	10C	F	SHARED	26.31	1	\$ 26		1.0000	\$ 26		
11 BLDG ENTRANCE CABLE	12C	---	---					1.0000			
12 INTRABLDG CABLE	52C	---	---					0.3500			
13 AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000			
14 BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
15 UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
16 CO EQPT - LOW CAP TERM	257C	F	DIRECT	51.57	1	\$ 52		0.7000		\$ 74	
17 CO EQPT - LOW CAP CHAN	257C	V	DIRECT	85.28	1	\$ 85		0.7000		\$ 122	
18 CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	1	\$ 22		1.0000		\$ 22	
19 CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	1	\$ 38		1.0000		\$ 38	
20 CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
21 CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
22 AERIAL CABLE (FIBER)	822C	F	DIRECT	0.34	1	\$ 0		0.3300		\$ 1	
23 BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300			
24 UNDERGROUND (FO) CA.	85C	F	DIRECT	0.93	1			0.3300		\$ 3	
25 CONNECTORS	57C	V	DIRECT	0.00				1.0000			
26 MISC. COM EQP & PWR	57C	V	SHARED	2.48	1	\$ 0		1.0000		\$ 0	
27 POLE LINE	1C	F	DIRECT	0.20	1			1.0000		\$ 1	
28 CONDUIT	4C	F	DIRECT	1.48	1			1.0000		\$ 1	
TOTALS											
									\$ 30	\$ 262	
										\$ 292	
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									
ANNUAL COSTS WORKSHEET									
FOR PRIMARY FEEDER PLANT									
FACILITY TYPE: FIBER IN THE LOOP									
CIRCUIT DESIGN: 3: FOMUX TO HUB / REM.									
SERVICE CLASS: BAND 1 - BU: SERVICE LEVEL: NARBAND									
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 TRI	SHARED RESOURCES to3sixaset	DIRECT RESOURCES to3dixaset	ANNUAL COST FACTOR actstart	SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES to3sixaset	DIRECT RESOURCES to3dixaset
[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	\$ 1		0.2322	\$ 0.26		\$ 0.02	
BUILDING	10C	1.0000	\$ 26		0.2937	\$ 7.73		\$ 0.64	
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		\$ 74	0.3881		\$ 28.59		\$ 2.38
CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 122	0.3881		\$ 47.28		\$ 3.94
CO EQPT - HI CAP TERM	857C	1.0000		\$ 22	0.3881		\$ 8.72		\$ 0.73
CO EQPT - HI CAP CHAN	857C	1.0000		\$ 38	0.3881		\$ 14.79		\$ 1.23
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000		\$ 1	0.2983		\$ 0.31		\$ 0.03
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000		\$ 3	0.2689		\$ 0.76		\$ 0.06
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000	\$ 2		0.3881	\$ 0.96		\$ 0.08	
POLE LINE	1C	1.0000		\$ 0	0.3807		\$ 0.08		\$ 0.01
CONDUIT	4C	1.0000		\$ 1	0.2521		\$ 0.37		\$ 0.03
TOTALS			\$ 30	\$ 262		\$ 9.95	\$ 90.85	\$ 0.75	\$ 6.41
				\$ 292			\$ 109.85		\$ 9.15
				feed3sy			feed3ann		feed3mrc

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

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

C:\123R24\LCAT\CALC\FOPRGN.WK1		LOOP COST ANALYSIS TOOL				Bellcore ^(R)	
FO_MUX - REPORT 14.3		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
Sheet 1 of 1		FOR PRIMARY FEEDER PLANT				ISSUE DATE: 7/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: FIBER IN THE LOOP				STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSIN SERVICE LEVEL: NARBAND				LAST RUN: 22-Jan-97	
						TIME: 10:25	
data - 14e3		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		0				TOTAL	
PLANT MIX		1.0000				AVG WEIGHTED	
ACCT AVG.						INVESTMENT	
PLANT ITEM		CODE LGTH				13331	
SEG LGTH		13331					
SHARED RESOURCES							
7	LAND	20C		\$ 0.02			\$ 0.02
8	BUILDING	10C		\$ 0.64			\$ 0.64
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		\$ 0.08			\$ 0.08
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		\$ 2.38			\$ 2.38
37	CO EQPT - LOW CAP CHAN	257C		\$ 3.94			\$ 3.94
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		\$ 0.03			\$ 0.03
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		\$ 0.01			\$ 0.01
48	CONDUIT	4C		\$ 0.03			\$ 0.03
50	SPAN SUMMARY		9.15	0.00	0.00	0.00	\$ 9.15
52	AVG. WTD. SPAN SUMMARY		9.15	0.00	0.00	0.00	
NOTE: [sum((INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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HELP SCREEN**Bellcore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

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

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

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CA123R24\LCATR077\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH

SHEET 1 of 2

COST 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: 14:39

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS								
		NARROWBAND		WIDEBAND		BROADBAND				
		CATEGORY	SENS. INDEX	RESOURCE ASSIGNMENT	CATEGORY	SENS. INDEX	RESOURCE ASSIGNMENT	CATEGORY	SENS. INDEX	RESOURCE 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.

C:\123R24\LCATR077\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

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: 14:39

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS									
	NARROWBAND			WIDEBAND		BROADBAND				
	CATEGORY	SENS.	RESOURCE	CATEGORY	SENS.	RESOURCE	CATEGORY	SENS.	RESOURCE	
-----	INDEX	ASSIGNMENT	INDEX	ASSIGNMENT	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			

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FOOTNOTES

① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER LINES.

BY DEFINITION : ITEMS LABELED F(xed) OR SHARED ARE EXCLUDED IN A MAJORAL COST STUDY.

ITEMS LABELED F(xed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES.

ALL ITEMS ARE INCLUDED IN A PROSPECTIVE REPLACEMENT OR NEW INSTALLATION.

FOOTNOTES

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

C:\123R24\LCAT077\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 09-Dec-96	
LCAT Ref.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/96				17-Oct-96 01:32 PM	
STUDY NAME		1996 BAND 1 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 12001 FEET - INFINITY INTRASTA1			
COMMENTS					
SERVICE CLASS		BAND 1 - BUSINESS 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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C:\123R24\LCATR077\CRITERIA
INPUT - STUDY SETUP
Sheet 1 of 2

HELP SCREEN

Bellcore®

LCAT Rel. 1.0.4

ISSUED: 3/31/95

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

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

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

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

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

CELL DENSITY Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, and 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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C:\123R24\LCATR07\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore TM													
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-95 TIME: 01:32 PM													
SELECTED QUESTIONS VALID RESPONSE SET 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 ? N or A S or P N, W or B 2 or 4 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">NEW</td></tr> <tr><td style="text-align: center;">SWITCHED</td></tr> <tr><td style="text-align: center;">NARBAND</td></tr> <tr><td style="text-align: center;">2</td></tr> </table> OFFICE CHAR. 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? 0 → 100 0 → 100 0 → 100 e.g., 12000 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">12000</td></tr> </table> Feet RESULTS SPEC. 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is(e.g.: RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page. For D L or A I, C or A I or W e.g. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">FLAT RATE</td></tr> <tr><td style="text-align: center;">8</td></tr> <tr><td style="text-align: center;">BECOST</td></tr> <tr><td style="text-align: center;">TOT INCR</td></tr> <tr><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">RATES PLAN</td></tr> </table>					NEW	SWITCHED	NARBAND	2	100	0	12000	FLAT RATE	8	BECOST	TOT INCR	1	RATES PLAN
NEW																	
SWITCHED																	
NARBAND																	
2																	
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0																	
12000																	
FLAT RATE																	
8																	
BECOST																	
TOT INCR																	
1																	
RATES PLAN																	

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HELP SCREEN

Belcore[®]

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 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\LCATR077\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN		CIRCUIT DESIGN REQUIREMENTS		LCAT Rel:1.0.4
Sheet 1 / 1		CHARACTERISTICS		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 1 - BUSINESS LINE		TIME : 14:41

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: <u>Note</u> FOR FIBER DLC DESIGNS: <table border="1" style="width:100%"><tr><td>Weighting of Design #1</td><td>0.0000</td></tr><tr><td>Weighting of Design #2</td><td>0.0000</td></tr><tr><td>Weighting of Design #3</td><td>1.0000</td></tr><tr><td>Weighting of Design #4</td><td>NA 0.0000</td></tr><tr><td>Weighting of Design #5</td><td>NA 0.0000</td></tr><tr><td>Weighting of Design #6</td><td>NA 0.0000</td></tr><tr><td colspan="2" style="text-align:right">1.0000 ChkSum</td></tr></table> FOR COPPER DLC DESIGNS: <table border="1" style="width:100%"><tr><td>Weighting of Design #1</td><td>1.0000</td></tr><tr><td>Weighting of Design #2</td><td>NA 0.0000</td></tr><tr><td>Weighting of Design #3</td><td>1.0000</td></tr><tr><td colspan="2" style="text-align:right">1.0000 ChkSum</td></tr></table> CONFIDENTIAL - NOT TO BE GIVEN PRIOR TO RELEASE TO PUBLIC NOTES: 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	Weighting of Design #3	1.0000	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																							
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Weighting of Design #2	NA 0.0000																						
Weighting of Design #3	1.0000																						
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, this is, *DESIGN* 4, 5, & 6.

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C:\123R24\LCATR077\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR : 1998	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1998		TEST CASE : 1	
STATE/PROV: OHIO		LOOP STUDY YEAR: 1998		LAST UPDATE : 12-Jul-98	
		SERVICE CLASS: BAND 1 - BUSINESS LINE		TIME : 14:43	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
CABLE TYPE MIX (DISTRIBUTION TO CODE) : Proportion of FIBER cable installations that are		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
		AERIAL	0.1800	0.0000	factors
		BURIED	0.0000	0.0000	factors
		UNDGRD	0.8200	0.0000	factors
INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :					
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) ☐ N (Required with INDIVIDUAL Mode)					
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	per fiber pair Foot	
		BURIED	\$ 0.2694	per fiber pair Foot	
		UNDGRD	\$ 0.1686	per fiber pair Foot	
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	\$ 0.0000	per fiber pair Foot
		BURIED	\$ 0.2694	\$ 0.0000	per fiber pair Foot
		UNDGRD	\$ 0.1686	\$ 0.0000	per fiber pair Foot
		(Fiber Hub to Remote Terminal) (Remote Terminal to Service Point)			

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C:\123R24\LCATR077\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore
TABLE - SPAN_INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL				LCAT Ver: 1.0.3
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE				Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-95 TIME: 14:43
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE						
Cable Sheath Sizes		CAPACITY	Unit Investment per Cable Pair Foot. by Cable Type, by Cable Size			
		INDEX	AERIAL	BURIED	UNDERGROUND	
4	Fiber Cable	2 pr	\$	\$	\$	\$
6	Fiber Cable	3 pr	\$	\$	\$	\$
12	Fiber Cable	6 pr	\$	\$	\$	\$
18	Fiber Cable	9 pr	\$	\$	\$	\$
24	Fiber Cable	12 pr	\$	\$	\$	\$
36	Fiber Cable	18 pr	\$	\$	\$	\$
48	Fiber Cable	24 pr	\$	\$	\$	\$
60	Fiber Cable	30 pr	\$	\$	\$	\$
72	Fiber Cable	36 pr	\$	\$	\$	\$
84	Fiber Cable	42 pr	\$	\$	\$	\$
96	Fiber Cable	48 pr	\$	\$	\$	\$
144	Fiber Cable	72 pr	\$	\$	\$	\$
192	Fiber Cable	96 pr	\$	\$	\$	\$
216	Fiber Cable	108 pr	\$	\$	\$	\$

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C:\123R24\LCATR077\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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Issued: 07/31/95

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

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C:\123R24\LCATR07\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)																																						
TABLE - SPAN_INV SHEET 2 / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT COPPER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 14:43																																						
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																										
Cable Gauge Mix : <u>GAUGE</u>		FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :																																						
The Proportion of Copper Cable that is		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>26 GA.</td><td>0.1500</td></tr> <tr><td>24 GA.</td><td>0.8500</td></tr> <tr><td>22 GA.</td><td>0.0000</td></tr> </table>	26 GA.	0.1500	24 GA.	0.8500	22 GA.	0.0000	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>0.1500</td><td>0.1500</td></tr> <tr><td>0.8500</td><td>0.8500</td></tr> <tr><td>0.0000</td><td>0.0000</td></tr> </table>	0.1500	0.1500	0.8500	0.8500	0.0000	0.0000	Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y / N) N If not, Update																										
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Cable Type Mix, By Gauge :		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th><u>GAUGE</u></th> <th><u>FEEDER</u> <u>SEGMENT</u></th> <th><u>DISTRIBUTION</u> <u>SEGMENT</u></th> </tr> </thead> <tbody> <tr> <td rowspan="3">The Proportion of Copper Cable that is</td> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.1200</td> <td>0.5900</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.1600</td> </tr> <tr> <td>UNDGRND</td> <td>0.8800</td> <td>0.2500</td> </tr> <tr> <td rowspan="3"></td> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.1200</td> <td>0.5900</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.1600</td> </tr> <tr> <td>UNDGRND</td> <td>0.8800</td> <td>0.2500</td> </tr> <tr> <td rowspan="3"></td> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </tbody> </table>					<u>GAUGE</u>	<u>FEEDER</u> <u>SEGMENT</u>	<u>DISTRIBUTION</u> <u>SEGMENT</u>	The Proportion of Copper Cable that is	26 GA.	AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500		24 GA.	AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500		22 GA.	AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000
	<u>GAUGE</u>	<u>FEEDER</u> <u>SEGMENT</u>	<u>DISTRIBUTION</u> <u>SEGMENT</u>																																							
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Average Unit Investment for Copper Cable Installed as		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th><u>GAUGE</u></th> <th><u>FEEDER</u> <u>SEGMENT</u></th> <th><u>DISTRIBUTION</u> <u>SEGMENT</u></th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>\$ 0.0121</td> <td>\$ 0.0397</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0166</td> <td>\$ 0.0657</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0109</td> <td>\$ 0.0569</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>\$ 0.0321</td> <td>\$ 0.0397</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0166</td> <td>\$ 0.0657</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0109</td> <td>\$ 0.0569</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> </tbody> </table>					<u>GAUGE</u>	<u>FEEDER</u> <u>SEGMENT</u>	<u>DISTRIBUTION</u> <u>SEGMENT</u>	26 GA.	AERIAL	\$ 0.0121	\$ 0.0397	BURIED	\$ 0.0166	\$ 0.0657	UNDGRND	\$ 0.0109	\$ 0.0569	24 GA.	AERIAL	\$ 0.0321	\$ 0.0397	BURIED	\$ 0.0166	\$ 0.0657	UNDGRND	\$ 0.0109	\$ 0.0569	22 GA.	AERIAL	\$ 0.0000	\$ 0.0000	BURIED	\$ 0.0000	\$ 0.0000	UNDGRND	\$ 0.0000	\$ 0.0000			
	<u>GAUGE</u>	<u>FEEDER</u> <u>SEGMENT</u>	<u>DISTRIBUTION</u> <u>SEGMENT</u>																																							
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	BURIED	\$ 0.0000	\$ 0.0000																																							
	UNDGRND	\$ 0.0000	\$ 0.0000																																							

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

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C:\123R24\LCATR077\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV		LOOP FACILITY INPUT		LCAT Rev: 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 1 - BUSINESS LINE		TIME: 14:43

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	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40	Copper Cable	20 pr	\$									
50	Copper Cable	25 pr	\$									
80	Copper Cable	40 pr	\$									
100	Copper Cable	50 pr	\$									
140	Copper Cable	70 pr	\$									
200	Copper Cable	100 pr	\$									
400	Copper Cable	200 pr	\$									
600	Copper Cable	300 pr	\$									
800	Copper Cable	400 pr	\$									
1200	Copper Cable	600 pr	\$									
1800	Copper Cable	900 pr	\$									
2400	Copper Cable	1200 pr	\$									
3000	Copper Cable	1500 pr	\$									
3600	Copper Cable	1800 pr	\$									
4200	Copper Cable	2100 pr	\$									
4800	Copper Cable	2400 pr	\$									
5400	Copper Cable	2700 pr	\$									
6000	Copper Cable	3000 pr	\$									
7200	Copper Cable	3600 pr	\$									
8400	Copper Cable	4200 pr	\$									

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C:\123R24\LCATR077\FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

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

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

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LCAT

INPUT SCREEN

Page -1-

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CA123R24\LCATR077\FACILITY.WK1
SPAN INV - WORKSHEET
Sheet 1 / 3

LOOP COST ANALYSIS TOOL

Bellcore[®]

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

COPPER CABLE DISTRIBUTIONS MIDDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT
SERVICE CLASS: BAND 1 - BUSINESS LINE

LCAT R6: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 12-Jul-96
TIME: 14:43

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pf...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.590000	\$ 0.039700	0.1500	0.088500	\$ 0.005955
BURIED @ 26 GA.	0.160000	\$ 0.065700	0.1500	0.024000	\$ 0.008855
UNDGRND @ 26 GA.	0.250000	\$ 0.056900	0.1500	0.037500	\$ 0.008535
AERIAL @ 24 GA.	0.590000	\$ 0.039700	0.8500	0.501500	\$ 0.033745
BURIED @ 24 GA.	0.160000	\$ 0.065700	0.8500	0.136800	\$ 0.055845
UNDGRND @ 24 GA.	0.250000	\$ 0.056900	0.8500	0.212500	\$ 0.048365
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

TABLE 2

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

Check = 1.000000

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES

[G=sum(E*Type)]
\$ 0.039700
\$ 0.065700
\$ 0.056900

Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR077\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore (P)																															
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR			LCAT Ver: 1.0.4 Issue Date: 07/31/95																															
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE			STUDY YR: 1996																															
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT			TEST CASE: 1996																															
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE			DATE: 1																															
					LAST UPDATE: 12-Jul-96																															
					TIME: 14:43																															
MELDED CABLE INVESTMENT PER PAIR FOOT																																				
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pft...fd)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI																															
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]																															
AERIAL @ 26 GA.	0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815																															
BURIED @ 26 GA.	0.000000	\$ 0.016600	0.1500	0.000000	\$ 0.002490																															
UNDGRND @ 26 GA.	0.880000	\$ 0.010900	0.1500	0.132000	\$ 0.001635																															
AERIAL @ 24 GA.	0.120000	\$ 0.012100	0.8500	0.102000	\$ 0.010285																															
BURIED @ 24 GA.	0.000000	\$ 0.016600	0.8500	0.000000	\$ 0.014110																															
UNDGRND @ 24 GA.	0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.008285																															
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		1.00																																
TABLE 2 <table border="1"> <thead> <tr> <th>DATA DESC.</th> <th>CABLE TYPE MIX RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td>CHARACTERISTICS FOR:</td> <td>(F=sum(D*TYPE))</td> <td></td> </tr> <tr> <td>AERIAL</td> <td>0.120000</td> <td></td> </tr> <tr> <td>BURIED</td> <td>0.000000</td> <td></td> </tr> <tr> <td>UNDERGRND</td> <td>0.880000</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> <td></td> </tr> </tbody> </table> TABLE 4 <table border="1"> <thead> <tr> <th>PAIR / FOOT INVESTMENT RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td>(G=sum(E*TYPE))</td> <td></td> </tr> <tr> <td>\$ 0.012100</td> <td></td> </tr> <tr> <td>\$ 0.016600</td> <td></td> </tr> <tr> <td>\$ 0.010900</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> </tr> </tbody> </table>							DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	CHARACTERISTICS FOR:	(F=sum(D*TYPE))		AERIAL	0.120000		BURIED	0.000000		UNDERGRND	0.880000		Check =	1.000000		PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	(G=sum(E*TYPE))		\$ 0.012100		\$ 0.016600		\$ 0.010900		Check =	1.000000
DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES																																		
CHARACTERISTICS FOR:	(F=sum(D*TYPE))																																			
AERIAL	0.120000																																			
BURIED	0.000000																																			
UNDERGRND	0.880000																																			
Check =	1.000000																																			
PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES																																			
(G=sum(E*TYPE))																																				
\$ 0.012100																																				
\$ 0.016600																																				
\$ 0.010900																																				
Check =	1.000000																																			
FOOTNOTES CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUBLIC																																				

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C:\123R24\LCATR077\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]	
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA FOR		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		LAST UPDATE: 12-Jul-96	
				TIME: 14:43	
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS					
FOR DLC SYSTEMS ON COPPER LOOPS					
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :				24
Pair Gain Factor :	(When Investment Utilities or Band Width Mix are NOT Used)				
	The Average Number Of Voice Grade Circuit Equivalents Per System :				96
	The Average Number Of Transmission Pairs Plus Protection Per System :				10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :				2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] :				0.125
NOTE:					
① The value represents the extent to which copper pairs are gained. For example, A 10 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\LCATR077\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 : $pgfactor = (\# \text{ of } xmsnpr + \# \text{ of } suptpr) / vgcheqv$

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

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C:\123R24\LCATR077\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore (R)	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT R#1: 1.04 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR: 1996	
CITY / AREA: OHIO		FACILITY TYPE: COPPER CABLE for DLC		TEST CASE: 1996	
STATE/PROV: CINCINNATI		DESIGN TYPE: FEEDER SEGMENT		DATE: 1	
		SERVICE CLASS: BAND 1 - BUSINESS LINE		LAST UPDATE: 12-Jul-96	
				TIME: 14:43	
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	BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	WORKING CHANNEL INVESTMENT / FOOT	
DESCRIPTION	2 * (PF1000) [D]	(RPTR 950) [E=C]	(DLC FLEGG) [F=D+E]	(ADLCPR10) [G]	
AERIAL @ 26 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200	
BURIED @ 26 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200	
UNDGRND @ 26 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800	
AERIAL @ 24 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200	
BURIED @ 24 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200	
UNDGRND @ 24 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800	
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
NOTES:					
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.					

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C:\123R24\LCATR077\FACILITY

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - SPAN INV
SHEET 4 / 4LOOP FACILITY INPUT
SERVICE ACCESS SEGMENT
FORLCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 14:43COM: COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE/PROV: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - BUSINESS LINE

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.....

Aerial	0.00
Buried	0.00

Per Unit Installation.....

Aerial Termination	0
Buried Termination	0

The Average Drop Wire & Building Entrance Cable Installation -

Proportion of Loops that use..

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
Per Unit Installation.....	
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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\\LCATR077\FACILITY
SPAN_INV
14

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

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

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

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

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C:\123R24\LCATRUN\FACTORS		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		STUDY YEAR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		LAST UPDATE: 17-Jan-97	
				TIME: 15:22	

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.3881
CO EQPT - DIGITAL SW	1.0000	0.3458
AERIAL CABLE (FIBER)	1.0000	0.2983
BURIED CABLE (FIBER)	1.0000	0.2793
UNDERGROUND (FO) CA.	1.0000	0.2689
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

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C:\123R24\LCATR077\INVEST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE				LAST UPDATE: 12-Jul-96 14:44	
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	\$ 12.11	\$ 85.28	\$ 51.57	
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 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\LCATR077\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, Remote Site.	1 & 5
REM Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.	1 & 5
REM Field Item 4	FITL Hubbed Arrangements, RING Span Equip, HUB Sites.	1,2,5 & 6

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

***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES *****
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C:\123R24\LCATR077\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]
TABLE - ADDNL_INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 14:45
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	Rm Hut		1.0000
		Comm. Svc. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN

Bellcore (R)

LCAT Rel : 1.0.4

Issued : 3/31/95

NOTE :

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

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

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C:\123R24\LCATR077\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 1 - BUSINESS LINE		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 14:45																																																																										
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 <u>DEFAULT</u></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: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>The Cable PFI is being Adjusted for DW ?</th> <th style="text-align: center;">NO</th> </tr> </thead> <tbody> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </tbody> </table> use <u>DEFAULT</u> ① ② for: <u>CENT. OFC.</u> <u>REMOTE SITE</u> LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.0056</th> <th style="text-align: center;">0.0056</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td></td> <td></td> </tr> <tr> <td>Digital Loop Carrier</td> <td></td> <td></td> </tr> <tr> <td>Fiber Optic Mux</td> <td></td> <td></td> </tr> </tbody> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.1316</th> <th style="text-align: center;">0.1316</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td></td> <td></td> </tr> <tr> <td>Digital Loop Carrier</td> <td></td> <td></td> </tr> <tr> <td>Fiber Optic Mux</td> <td></td> <td></td> </tr> </tbody> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.1127</th> <th style="text-align: center;">0.1127</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td></td> <td></td> </tr> <tr> <td>Digital Loop Carrier</td> <td></td> <td></td> </tr> <tr> <td>Fiber Optic Mux</td> <td></td> <td></td> </tr> </tbody> </table>						②	use <u>DEFAULT</u>	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			The Cable PFI is being Adjusted for DW ?	NO	Aerial Cable		Buried Cable		Underground Cable			0.0056	0.0056	Other or <u>ALL</u> ①			Digital Loop Carrier			Fiber Optic Mux				0.1316	0.1316	Other or <u>ALL</u> ①			Digital Loop Carrier			Fiber Optic Mux				0.1127	0.1127	Other or <u>ALL</u> ①			Digital Loop Carrier			Fiber Optic Mux		
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TABLE - ADDNL_INV
Sheet 2 of 2

HELP SCREEN

Bellcore^(R)

LCAT Rel : 1.0.4

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	cpiti	_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	fpiti	_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\LCATR077\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]
INPUT - PLANT_CHAR. Sheet 1 / 5		LOOP FACILITY INPUT		LCAT Rel: 1.0.4
		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996	FOR	STUDY YR: 1996
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE		LAST UPDATE: 12-Jul-96
				TIME: 14:48
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP TOPOLOGY		ACTION SEGMENT		
Loop FEEDER Network Configuration Is (S)tar Or (R)ing		PRIMARY STAR		
Average Number Of Hubs In Each Ring		PRIMARY NA		
Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us		DISTRIBUTION STAR		
SPAN LENGTHS		TOTAL LOOP		
①	Average Distance From the Central Office to the Service Access Point	15677.0		
②	Average Distance From the Serving Area Interface to the Service Access Point	2046.0		
③	Average Distance From the Remote Terminal to the Serving Area Interface	200.0		
④	Average Distance From the Central Office to the Fiber Hub or S.A.I.	2531.0		
⑤	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY - EXTENSION		
LOOP LENGTH AT EACH COST BAND		DISTRIBUTION OF COST BANDS IN THE NETWORK		
BAND 1		BAND 1		
BAND 2		BAND 2		
BAND 3		BAND 3		
BAND 4		BAND 4		
BAND 5		BAND 5		
LAST 15677.0		LAST 1.0000 1.0000 Hint		

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C:\123R24\LCATR077\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 : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR : 1996		STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		SERVICE CLASS : BAND 1 - BUSINESS LINE		LAST UPDATE : 12-Jul-96	
				TIME : 14:48	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
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C:\123R24\LCATR07\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. 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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C:\123R24\LCATR077\SPAN

LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT_CHAR.
Sheet 2 of 2

HELP SCREEN

LCAT Rel : T.O.4
Issued : 07/31/95

COST DETAILS

When the Loop Study is specified as DISTANCE SENSITIVE, 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 FLAT RATE, 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 STAR, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to P.O.) is held as an average length link. When the Loop Topology is specified as RING, 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 *****

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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		FOR						STUDY YR: 1996		
CITY / AREA: 0		INVESTMENT YEAR: 1996						TEST CASE: 1		
STATE / PROV: 0		LOOP STUDY YEAR: 1996						LAST UPDATE: 12-Jul-96		
		SERVICE CLASS: BAND 1 - BUSINESS LINE						TIME: 14:48		
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\LCATR077\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
PLANT CHAR - WORKSHEET 25 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.		INVESTMENT YEAR: 1996				STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE : 1	
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS LINE				LAST UPDATE: 12-Jul-96	
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		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
For these sizes ...	[C]	idx	[A]	[B]	[A]	[B]	[A]
4 FIBER CABLE	2 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
6 FIBER CABLE	3 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
12 FIBER CABLE	6 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
18 FIBER CABLE	9 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
24 FIBER CABLE	12 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
36 FIBER CABLE	18 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
48 FIBER CABLE	24 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
60 FIBER CABLE	30 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
72 FIBER CABLE	36 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
84 FIBER CABLE	42 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
96 FIBER CABLE	48 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
144 FIBER CABLE	72 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
192 FIBER CABLE	96 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
216 FIBER CABLE	108 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
SUBTOTAL			\$ 0.00		\$ 0.00		\$ 0.00

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C:\123R24\LCATR077\SPAN		LOOP COST ANALYSIS TOOL			Bellcore					
INPUT - PLANT CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER FOR			LCAT Rel : 1.0.4 Issued : 07/31/95					
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS			STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 12-Jul-96 TIME: 14:48					
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
CUMULATIVE LENGTHS BY CABLE PAIR FOOT										
CABLE SHEATH SIZES	CAPACITY 10X	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0

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PLANT CHAR - WORKSHEET 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.		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996			
CITY / AREA: CINCINNATI								TEST CASE : 1			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS						LAST UPDATE: 12-Jul-96			
								TIME: 14:48			
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
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\LCATR077\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						STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 12-Jul-96 TIME: 14:48			
NETWORK CIRCUIT LAYOUT STUDIES		SERVICE CLASS: BAND 1 - BUSINESS						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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C:\123R24\LCATR077\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 Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 14:48	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS LINE							
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL									
LEVEL OF SERVICE: <u>NARBAND</u>									
BITRATE INDEX	1	2	3	4	5	6	7		
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0		
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	SERVICE LEVEL	PROTECTION
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE [SLM]	n: 1 [E]
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	1	1
									1979.04

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FOOTNOTES

1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRD BAND, TIMES {24 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]}

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: 1995

TEST CASE: 1

LAST UPDATE: 12-Jul-96

TIME: 14:46

WORKSHEET DS

DIGITAL SIGNAL TABLE (digital bit)						
SELECT	MODE	HIERARCHY	BNDWDT	DS1MULT	DS3MULT	VGE
0						
1		DS1	1.5 Mbps	1	0.04	24
2	MODE3	DS1	1.5 Mbps	1	0.04	24
3		VT1	1.5 Mbps	1	0.04	24
4		VT2	1.5 Mbps	1	0	UNDIR FIBER
5		ET1	1.5 Mbps	1	0.06	30
6	MODE1	DSTC	3.2 Mbps	1NA		48
7	MODE2	DSTC	3.2 Mbps	2	0.07	48
8		VT3	3.2 Mbps	2	0.07	56
9		4 Mbps		2	0	60
10		DS2	6.3 Mbps	4	0.14	72
11	MODE4	DS2	6.3 Mbps	1NA	0	72
12		VT6	6.3 Mbps	4	0.14	84
13		E2	8 Mbps	4	0.25	120
14		E3	34 Mbps	16	1	480
15	X	DS3	45 Mbps	28	1	672
16	STS1	OC1	50 Mbps	28	1	672
17	X	90 Mbps		2	2	1344
18		90 Mbps		2	2	1344
19		DS4	135 Mbps	3	3	2016
20		135 Mbps		3	3	2016
21		DS4NA	139 Mbps	3	3	2016
22		E4	140 Mbps	3	3	1920
23		14M	139 Mbps	6	6	4032
24		P140	139 Mbps	6	6	4032
25	X	OC3	155 Mbps	3	3	2016
26	X	180 Mbps		4	4	2688
27		417 Mbps		9	9	8064
28		OC9	466 Mbps	9	9	8064
29		OC12	560 Mbps	12	12	7680
30		565 Mbps		12	12	8064
31		1.2 Gbps		24	24	16128
32		1.7 Gbps		36	36	24192
33		OC24	1.8 Gbps	24	24	24192
34		2.5 Gbps		24	24	34560
35						
36						
OFFSET						
0	1	2	3	4	5	6
						7

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PLANT CHAR. - WORKSHEET F Sheet 1 of 1		LOOP LENGTH DEVELOPMENT WORKSHEET 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 1 - BUSINESS I		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 14:48	
[A] BAND NUMBER	DISTANCE INCREMENTS: NUMBER OF BANDS: TOTAL WORKING FEET [D=input]	0 / 4 MILE BETWEEN BANDS TO BE CARRIED INTO THE STUDY TOTAL WORKING FEET [E=(B*D)]	[R] UNIT MILE / FEET CONSTANT: LOOP LENGTH @ MIDPOINT [G (see note)]	ROUTE TO AIR RATIO: 1.539947 ratio	WORKING FEET @ MIDPOINT [H=G*R]
[C]			[K]		
1		0			
2		0			
3		0			
4		0			
5		0			

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

ERROR MESSAG 0

LOOP COST ANALYSIS TOOL										Bellcore (R)																																																																																																																																																																																																																																																																																																																					
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<table border="1"> <thead> <tr> <th>cur lplgth</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>cur lplgth = 15677</td> <td colspan="10"></td> </tr> <tr> <td>dlcdepl = 12000</td> <td colspan="10">NO COLOCATED STOPS = BUS</td> </tr> <tr> <td>[B] distspa = 2048</td> <td colspan="10">diststo = STAF diststo = BUS</td> </tr> <tr> <td>nom range</td> <td>cur - dis</td> <td>subfeed</td> <td>prfeed</td> <td>subfeed</td> <td>prfeed</td> <td>subfeed</td> <td>prfeed</td> <td>subfeed</td> <td>prfeed</td> <td>subfeed</td> </tr> <tr> <td></td> <td>[C] [D=C-I]</td> <td>[E] [F=D-I]</td> <td>[G] [H=D-G]</td> <td>[I] [J=C-I]</td> <td>[K] [L=C-K]</td> <td>[M=A-C]</td> <td colspan="4"></td> </tr> <tr> <td>500</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>15677</td> </tr> <tr> <td>1000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>15177</td> </tr> <tr> <td>2000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>14677</td> </tr> <tr> <td>3000</td> <td>954</td> <td>954</td> <td>0</td> <td>954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>13677</td> </tr> <tr> <td>4000</td> <td>1954</td> <td>1954</td> <td>0</td> <td>1954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>12677</td> </tr> <tr> <td>5000</td> <td>2954</td> <td>2954</td> <td>0</td> <td>2954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>11677</td> </tr> <tr> <td>6000</td> <td>3954</td> <td>3954</td> <td>0</td> <td>3954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10677</td> </tr> <tr> <td>7000</td> <td>4954</td> <td>4954</td> <td>0</td> <td>4954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9677</td> </tr> <tr> <td>8000</td> <td>5954</td> <td>5954</td> <td>0</td> <td>5954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>8677</td> </tr> <tr> <td>9000</td> <td>6954</td> <td>6954</td> <td>0</td> <td>6954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>7677</td> </tr> <tr> <td>10000</td> <td>7954</td> <td>7954</td> <td>0</td> <td>7954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>6677</td> </tr> <tr> <td>11000</td> <td>8954</td> <td>8954</td> <td>0</td> <td>8954</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>5677</td> </tr> <tr> <td>12000</td> <td>9954</td> <td>4977</td> <td>4977</td> <td>0</td> <td>9954</td> <td>6000</td> <td>6000</td> <td>0</td> <td>12000</td> <td>4677</td> </tr> <tr> <td>13000</td> <td>10954</td> <td>5477</td> <td>5477</td> <td>0</td> <td>10954</td> <td>6500</td> <td>6500</td> <td>0</td> <td>13000</td> <td>3677</td> </tr> <tr> <td>14000</td> <td>11954</td> <td>5977</td> <td>5977</td> <td>0</td> <td>11954</td> <td>7000</td> <td>7000</td> <td>0</td> <td>14000</td> <td>2677</td> </tr> <tr> <td>15000</td> <td>12954</td> <td>6477</td> <td>6477</td> <td>0</td> <td>12954</td> <td>7500</td> <td>7500</td> <td>0</td> <td>15000</td> <td>1677</td> </tr> <tr> <td>16000</td> <td>13954</td> <td>6977</td> <td>6977</td> <td>0</td> <td>13954</td> <td>8000</td> <td>8000</td> <td>0</td> <td>16000</td> <td>677</td> </tr> <tr> <td>17000</td> <td>14954</td> <td>7477</td> <td>7477</td> <td>1000</td> <td>13954</td> <td>8500</td> <td>8500</td> <td>0</td> <td>17000</td> <td>-1323</td> </tr> <tr> <td>18000</td> <td>15954</td> <td>7977</td> <td>7977</td> <td>2000</td> <td>13954</td> <td>9000</td> <td>9000</td> <td>1000</td> <td>18000</td> <td>-2323</td> </tr> <tr> <td>19000</td> <td>16954</td> <td>8477</td> <td>8477</td> <td>3000</td> <td>13954</td> <td>9500</td> <td>9500</td> <td>2000</td> <td>19000</td> <td>-3323</td> </tr> <tr> <td>20000</td> <td>17954</td> <td>8977</td> <td>8977</td> <td>4000</td> <td>13954</td> <td>10000</td> <td>10000</td> <td>3000</td> <td>20000</td> <td>-4323</td> </tr> <tr> <td>80000</td> <td>77954</td> <td>9954</td> <td>68000</td> <td>5000</td> <td>72954</td> <td>9954</td> <td>78046</td> <td>4900</td> <td>78046</td> <td>-64323</td> </tr> </tbody> </table>												cur lplgth	1	2	3	4	5	6	7	8	9	10	cur lplgth = 15677											dlcdepl = 12000	NO COLOCATED STOPS = BUS										[B] distspa = 2048	diststo = STAF diststo = BUS										nom range	cur - dis	subfeed	prfeed	subfeed	prfeed	subfeed	prfeed	subfeed	prfeed	subfeed		[C] [D=C-I]	[E] [F=D-I]	[G] [H=D-G]	[I] [J=C-I]	[K] [L=C-K]	[M=A-C]					500	0	0	0	0	0	0	0	0	0	15677	1000	0	0	0	0	0	0	0	0	0	15177	2000	0	0	0	0	0	0	0	0	0	14677	3000	954	954	0	954	0	0	0	0	0	13677	4000	1954	1954	0	1954	0	0	0	0	0	12677	5000	2954	2954	0	2954	0	0	0	0	0	11677	6000	3954	3954	0	3954	0	0	0	0	0	10677	7000	4954	4954	0	4954	0	0	0	0	0	9677	8000	5954	5954	0	5954	0	0	0	0	0	8677	9000	6954	6954	0	6954	0	0	0	0	0	7677	10000	7954	7954	0	7954	0	0	0	0	0	6677	11000	8954	8954	0	8954	0	0	0	0	0	5677	12000	9954	4977	4977	0	9954	6000	6000	0	12000	4677	13000	10954	5477	5477	0	10954	6500	6500	0	13000	3677	14000	11954	5977	5977	0	11954	7000	7000	0	14000	2677	15000	12954	6477	6477	0	12954	7500	7500	0	15000	1677	16000	13954	6977	6977	0	13954	8000	8000	0	16000	677	17000	14954	7477	7477	1000	13954	8500	8500	0	17000	-1323	18000	15954	7977	7977	2000	13954	9000	9000	1000	18000	-2323	19000	16954	8477	8477	3000	13954	9500	9500	2000	19000	-3323	20000	17954	8977	8977	4000	13954	10000	10000	3000	20000	-4323	80000	77954	9954	68000	5000	72954	9954	78046	4900	78046	-64323
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11000	8954	8954	0	8954	0	0	0	0	0	5677																																																																																																																																																																																																																																																																																																																					
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RULES ASSUMPTION - Table LOOKUP will select from the lower NOM RANGE of CUR LPLGTH intermediate value IF CUR_LPLGTH is = < DISTSPAN, then CUR_SEGLGTH^{dist} Equals CUR_LPLGTH - NOM_RANGE difference > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{cur} Equals CUR_LPLGTH - NOM_RANGE difference = > DLCDEPL, then CUR_SEGLGTH^{pror} Equals CUR_LPLGTH - NOM_RANGE difference CUR_SEGLGTH - Calculation Assumptions The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA. Therefore, set the DLCDEPL at the DISTSPAN to get an <u>ALL FIBER</u> Network.																																																																																																																																																																																																																																																																																																																															

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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			11		
17	18,001-INFINITY	23,301	4,826	28,127	23,447	3,478	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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PROVIDED TO PUCO

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 2
BUSINESS LINE

MCI Depo.
Ex. No. 7

CDR 11-26-97

INDEX

BAND 2

Business 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\LCATRUN\MRESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORT**Bellicore (R)**LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:22COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS LINE
TOTAL LOOP LENGTH: 6711 FEETLoop 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- INTERFACETOTAL
LOOP

EQPT

PLANT

CODE

ITEM DESCRIPTION

SEG. LGTH.

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	\$ 1.10	\$ 2.57	\$ 0.00	\$ 3.6700
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 1.84	\$ 0.00	\$ 1.9500
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.26	\$ 0.26	\$ 0.00	\$ 2.4600
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	\$ 0.26	\$ 0.61	\$ 0.00	\$ 0.8700
49	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.78	\$ 0.09	\$ 0.00	\$ 0.8700

SPAN SUMMARY

\$ 0.00 \$ 0.00 \$ 4.45 \$ 5.37 \$ 2.45

\$ 12.27

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DATE 01-10-2001 BY 60322 UCUCO

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C:\123R24\LCATRUNM\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 2 (OHIO ONLY) BUSINESS LINE STUDY 0 - 14000 FEET INTRASTATE

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	DATE	LAST SAVE
FR/DS	FLAT RATE	#BANDS	01-11-97	01-11-97
SVC LEVEL	NARBAND	#CKTS	10	15:28
CST METH	UNINCR	INV LEVEL	MANCOST	TIME

PRIOR TO RELEASE
PROVIDED TO PICO
Your report is ready for viewing

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

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A B C D E F G	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 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	LOOP COST ANALYSIS TOOL					Bellcore®	
		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4 Issued: 7/31/95	
		COMPANY: CINCINNATI BELL TEL					CIRCUIT DESIGN: 1 CDLC	
		CITY / AREA: CINCINNATI					LOOP SPAN DIVISION: ALL LOOP SPANS	
		STATE / PROV: OHIO					SERVICE CLASS: BAND 2 - BUSINESS LINE	
		JOB IDENT.: CINCINNATI					TOTAL LOOP LENGTH: 6711 FEET	
							STUDY YR: 1996	
							TEST CASE: 1	
							RUN DATE: 20-Jan-97	
							TIME: 10:22	
		Circuit Design Mix: 1.0000						
		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						
		PLANT NAME	FEEDER	SUB-	DISTRIBUTION NETWORK	TOTAL	WEIGHTED	
		SEG. NAME	PRIMARY	EXTENSION	INTERFACE	LOOP	TOTAL	
		EQPT					LOOP	
		CODE						
		PLANT						
		ITEM DESCRIPTION						
		SHARED RESOURCES						
		LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		DIRECT RESOURCES						
		LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 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	\$ 1.10	\$ 2.57	\$ 3.67	\$ 3.67
		BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.11	\$ 0.84	\$ 1.95	\$ 1.95
		UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.26	\$ 0.26	\$ 2.46	\$ 2.46
		CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		POLE LINE	1C	\$ 0.00	\$ 0.26	\$ 0.61	\$ 0.87	\$ 0.87
		CONDUIT	4C	\$ 0.00	\$ 0.78	\$ 0.09	\$ 0.87	\$ 0.87
		SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.45	\$ 5.37	\$ 12.27
		CIRCUIT DESIGN SUMMARY					\$ 12.27	

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A B C D E F G		LOOP COST ANALYSIS TOOL						Belcore (A)	
C:\123R24\LCATRUN\RESULTS1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY						LCAT Rel: 1.0.4	
OUTPUT - WORKSHEET D								Issued: 7/31/95	
SHEET 2 of 10								STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 CDLC						TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS						DATE: 20-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE						TIME: 10:22	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET							
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						TOTAL	WEIGHTED
PLANT NAME		FEEDER				DISTRIBUTION NETWORK		LOOP	TOTAL
SEG. NAME		PRIMARY	EXTENSION	SUB-	INTERFACE				
EQPT									
CODE									
PLANT									
ITEM DESCRIPTION									
<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 - P GAIN TERM	257C						\$0	\$0
38	CO EQPT - P GAIN CHAN	257C						\$0	\$0
39	CO EQPT - FO MUX TERM	857C						\$0	\$0
40	CO EQPT - FO MUX CHAN	857C						\$0	\$0
41	CO EQPT - ANALOG SW	77C						\$0	\$0
42	CO EQPT - DIGITAL SW	377C						\$0	\$0
43	AERIAL CABLE (FIBER)	822C						\$0	\$0
44	BURIED CABLE (FIBER)	845C						\$0	\$0
45	UNDERGROUND (FO) CA.	85C						\$0	\$0
46	CONNECTORS	57C						\$0	\$0
47	MISC. COM EQP & PWR	57C						\$0	\$0
48	POLE LINE	1C						\$0	\$0
49	CONDUIT	4C						\$0	\$0
50									
51	SPAN SUMMARY							\$0	\$0
52									
53	CIRCUIT DESIGN SUMMARY							\$0	\$0
54									
55									

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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	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: 20-Jan-97									
	TIME: 10:22									
	C:\123R24\LCATRUN\MRESULTS1									
	OUTPUT - WORKSHEET D									
	SHEET 3 of 10									
	COMPANY: CINCINNATI BELL TEL									
	CITY / AREA: CINCINNATI									
	STATE / PROV: OHIO									
	JOB IDENT: CINCINNATI									
	CIRCUIT DESIGN: MELDED CDLC									
	LOOP SPAN DIVISION: ALL LOOP SPANS									
	SERVICE CLASS: BAND 2 - BUSINESS LINE									
	TOTAL LOOP LENGTH: 6711 FEET									
	Technology Type Mix: 0.0000									
	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
	TECHNOLOGY WEIGHTED									
	PLANT NAME --- FEEDER --- DISTRIBUTION NETWORK									
	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE TOTAL LOOP									
	EQPT CODE									
	PLANT									
	ITEM DESCRIPTION									
	<u>SHARED RESOURCES</u>									
	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	\$ 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	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	<u>DIRECT RESOURCES</u>									
	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	\$ 0.00	\$ 0.00	\$ 1.10	\$ 2.57	\$ 0.00	\$ 3.67	\$ 0.0000	
	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 1.84	\$ 0.00	\$ 1.95	\$ 0.0000	
	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.20	\$ 0.26	\$ 0.00	\$ 2.46	\$ 0.0000	
	CO EQPT - P GAIN TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CO EQPT - P GAIN CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 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	\$ 0.00	\$ 0.00	\$ 0.26	\$ 0.61	\$ 0.00	\$ 0.87	\$ 0.0000	
	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.78	\$ 0.00	\$ 0.00	\$ 0.87	\$ 0.0000	
	SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.45	\$ 5.37	\$ 2.45	\$ 12.27	\$ 0.00	
	TECHNOLOGY DESIGN SUMMARY							\$ 12.27		

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C:\123R24\LCATRUNM\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 4 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE		RUN DATE: 20-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET		TIME: 10:22			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	WEIGHTED	
	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP
	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\LCATRUNM\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Ref: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		RUN DATE: 20-Jan-97		TIME: 10:22	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE					
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET					
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-	
EQPT							
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 - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
SPAN SUMMARY		\$0		\$0		\$0	

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CM123R24\LCATRUNM\RESULTS1
OUTPUT - WORKSHEET D
SHEET 6 of 10

LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore[®]

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:22

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

CIRCUIT DESIGN: 3 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS LINE
TOTAL LOOP LENGTH: 6711 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	FEEDER	EXTENSION	SUB-	DISTRIBUTION NETWORK INTERFACE		
PLANT ITEM DESCRIPTION	EQPT CODE							
SHARED RESOURCES								
LAND	20C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES								
LAND	20C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00			\$ 1.10	\$ 2.57	\$ 3.67	\$ 3.67
BURIED CABLE (COPPER)	45C	\$ 0.00			\$ 0.11	\$ 1.84	\$ 1.95	\$ 1.95
UNDERGROUND (CU) CA.	5C	\$ 0.00			\$ 2.20	\$ 0.26	\$ 2.46	\$ 2.46
CO EQPT - LOW CAP TERM	257C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00			\$ 0.26	\$ 0.61	\$ 0.87	\$ 0.87
CONDUIT	4C	\$ 0.00			\$ 0.78	\$ 0.09	\$ 0.87	\$ 0.87
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.45	\$ 5.37	\$ 2.45	\$ 12.27	\$ 12.27
							\$ 12.27	

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C:\123R24\LCATRUNM\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 7 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE		RUN DATE: 20-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET		TIME: 10:22			

Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED		
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT								LOOP	
CODE								LOOP	
PLANT									
ITEM DESCRIPTION									
SHARED RESOURCES									
LAND		20C						\$0	
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 H I J K L M N O P Q R S T U V W X Y Z		LOOP COST ANALYSIS TOOL										Bellcore [®]	
CA123R24\LCATRUNM\RESULTS1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
OUTPUT - WORKSHEET D												Issued: 7/31/95	
SHEET 8 of 10												STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 5 FOMUX										TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS										RUN DATE: 20-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE										TIME: 10:22	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET											
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY										WEIGHTED	
PLANT NAME		PRIMARY		FEEDER		SUB-		DISTRIBUTION NETWORK		TOTAL LOOP		TOTAL LOOP	
EQPT								INTERFACE					
CODE													
PLANT													
ITEM DESCRIPTION													
<u>SHARED RESOURCES</u>													
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	
<u>DIRECT RESOURCES</u>													
LAND		20C								\$0		\$0	
BUILDING		10C								\$0		\$0	
BLDG ENTRANCE CABLE		12C								\$0		\$0	
INTRABLDG CABLE		52C								\$0		\$0	
AERIAL CABLE (COPPER)		22C								\$0		\$0	
BURIED CABLE (COPPER)		45C								\$0		\$0	
UNDERGROUND (CU) CA.		5C								\$0		\$0	
CO EQPT - LOW CAP TERM		257C								\$0		\$0	
CO EQPT - LOW CAP CHAN		257C								\$0		\$0	
CO EQPT - HI CAP TERM		857C								\$0		\$0	
CO EQPT - HI CAP CHAN		857C								\$0		\$0	
CO EQPT - ANALOG SW		77C								\$0		\$0	
CO EQPT - DIGITAL SW		377C								\$0		\$0	
AERIAL CABLE (FIBER)		822C								\$0		\$0	
BURIED CABLE (FIBER)		845C								\$0		\$0	
UNDERGROUND (FO) CA.		85C								\$0		\$0	
CONNECTORS		57C								\$0		\$0	
MISC. COM EQP & PWR		57C								\$0		\$0	
POLE LINE		1C								\$0		\$0	
CONDUIT		4C								\$0		\$0	
SPAN SUMMARY		\$0		\$0		\$0		\$0		\$0		\$0	

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A B C D E F G		LOOP COST ANALYSIS TOOL										Belcore [®]	
		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
		OUTPUT - WORKSHEET D										Issued: 7/31/95	
		SHEET 9 of 10											
		COMPANY: CINCINNATI BELL TEL.					CIRCUIT DESIGN: 6 FOMUX					STUDY YR: 1995	
		CITY / AREA: CINCINNATI					LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1	
		STATE / PROV: OHIO					SERVICE CLASS: BAND 2 - BUSINESS LINE					RUN DATE: 20-Jan-97	
		JOB IDENT: CINCINNATI					TOTAL LOOP LENGTH: 6711 FEET					TIME: 10:22	
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
1		PLANT NAME		FEEDER		SUB-		DISTRIBUTION NETWORK		TOTAL LOOP		WEIGHTED TOTAL LOOP	
2		EQPT		PRIMARY		EXTENSION		INTERFACE					
3		CODE											
4		PLANT											
5		ITEM DESCRIPTION											
6		<u>SHARED RESOURCES</u>											
7		LAND		20C						\$0		\$0	
8		BUILDING		10C						\$0		\$0	
9		BLDG ENTRANCE CABLE		12C						\$0		\$0	
10		INTRABLDG CABLE		52C						\$0		\$0	
11		AERIAL CABLE (COPPER)		22C						\$0		\$0	
12		BURIED CABLE (COPPER)		45C						\$0		\$0	
13		UNDERGROUND (CU) CA.		5C						\$0		\$0	
14		CO EQPT - LOW CAP TERM		257C						\$0		\$0	
15		CO EQPT - LOW CAP CHAN		257C						\$0		\$0	
16		CO EQPT - HI CAP TERM		857C						\$0		\$0	
17		CO EQPT - HI CAP CHAN		857C						\$0		\$0	
18		CO EQPT - ANALOG SW		77C						\$0		\$0	
19		CO EQPT - DIGITAL SW		377C						\$0		\$0	
20		AERIAL CABLE (FIBER)		822C						\$0		\$0	
21		BURIED CABLE (FIBER)		845C						\$0		\$0	
22		UNDERGROUND (FO) CA.		85C						\$0		\$0	
23		CONNECTORS		57C						\$0		\$0	
24		MISC. COM EQP & PWR		57C						\$0		\$0	
25		POLE LINE		1C						\$0		\$0	
26		CONDUIT		4C						\$0		\$0	
27													
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	
52													
53													
54													
55													

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C:\123R24\LCATRUN\MRESULTS1			LOOP COST ANALYSIS TOOL					Bellcore (R)		
OUTPUT - WORKSHEET D			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4		
SHEET 10 of 10			COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: MELDED		FOMUX		Issued: 7/31/95	
			CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP		SPANS		STUDY YR: 1996	
			STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE				TEST CASE: 1	
			JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET				RUN DATE: 20-Jan-97	
									TIME: 10:22	
Technology Type Mix: 1.0000			UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY WEIGHTED		
PLANT NAME			FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL	
SEG. NAME			PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT									LOOP	
CODE									LOOP	
PLANT										
ITEM DESCRIPTION										
SHARED RESOURCES										
LAND			20C		\$ 0.00		\$ 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		\$ 1.10		\$ 3.6700	
BURIED CABLE (COPPER)			45C		\$ 0.00		\$ 0.11		\$ 1.9500	
UNDERGROUND (CU) CA.			5C		\$ 0.00		\$ 2.20		\$ 2.4600	
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		\$ 0.8700	
CONDUIT			4C		\$ 0.00		\$ 0.00		\$ 0.8700	
SPAN SUMMARY					\$ 0.00		\$ 0.00		\$ 12.27	
									\$ 12.27	

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RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

20-Jan-97

Issued: 8/31/95

09:41

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS LINE STUDY 0 - 14000 FEET

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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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))

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

SERVICE CLASS: BAND 2 - BUSINESS LINE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1995
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:13

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
		[B]	[C=A*B]	[D]	[E=C*D]	[F=E*factr]	[F=E*factr]		
1013.0	AERIAL	0.620000	628.1	0.042600	26.76		0.00	0.00	
CONSIDERS: MELDED COPPER CABLE	BURIED	0.330000	334.3	0.066800	22.33		0.00	0.00	
	UNDERGRND	0.050000	50.7	0.058000	2.94		0.00	0.00	
	Check =	1.000000	1013.0						
OUTSIDE PLANT LOADINGS (NOTE 4)									
DROP WIRE ADJUSTMENT:									
AERIAL CA. =	0.0000	AIR DRYER LOADINGS:		AERIAL CA. =	0.0000				
BURIED CA. =	0.0000			BURIED CA. =	0.0000				
UNDERGRND =	0.0000			UNDERGRND =	0.0000				
OTHER INVESTMENT									
inv / unit lgh: inv / unit lgh									
POLE LINE FACTOR (PL) =	0.0000	0.2500							
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) =	\$ 18.34								
UG CONDUIT FACTOR (UC) =	0.0000	0.0000							
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UC) =	\$ 4.34								
FOOTNOTES									
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.									
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO									
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)									

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DIST_PLNT - WORKSHEET A
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

ACCOUNT INVESTMENT WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:13

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

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

SERVICE CLASS: BAND 2 - BUSINESS LINE

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
						SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
8 LAND	20C	F	SHARED					1.0000		
9 BUILDING	10C	F	SHARED					1.0000		
10 BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
11 INTRABLDG CABLE	52C	V	DIRECT					0.3500		
12 AERIAL CABLE (COPPER)	22C	V	DIRECT	26.76	1		\$ 27	0.3500		\$ 76
13 BURIED CABLE (COPPER)	45C	V	DIRECT	22.33	1		\$ 22	0.3500		\$ 64
14 UNDERGROUND (CU) CA.	5C	V	DIRECT	2.94	1		\$ 3	0.3500		\$ 8
15 CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000		
16 CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000		
17 CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000		
18 CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000		
19 CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000		
20 CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000		
21 AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000		
22 BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000		
23 UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000		
24 CONNECTORS	57C	V	DIRECT					1.0000		
25 MISC. COM EQP & PWR	57C	V	SHARED					0.0000		
26 POLE LINE	1C	F	DIRECT	19.34	1		\$ 19	1.0000		\$ 19
27 CONDUIT	4C	F	DIRECT	4.34	1		\$ 4	1.0000		\$ 4

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\$0 \$172
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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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CM123R24LCATCALC.DIST
DIST_PLANT - WORKSHEET A
Sheet 3 of 3

LOOP COST ANALYSIS TOOL

Bellcore (R)

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)

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:13

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

SERVICE CLASS: BAND 2 - BUSINESS 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			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 76	0.4033		\$ 30.83		\$ 2.57
BURIED CABLE (COPPER)	45C	1.0000		\$ 64	0.3467		\$ 22.12		\$ 1.84
UNDERGROUND (CU) CA.	5C	1.0000		\$ 8	0.3863		\$ 3.07		\$ 0.26
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		\$ 19	0.3807		\$ 7.36		\$ 0.61
CONDUIT	4C	1.0000		\$ 4	0.252		\$ 1.09		\$ 0.09
TOTALS			\$ 0	\$ 172		\$ 0.00	\$ 64.45	\$ 0.00	\$ 5.37
				\$ 172			\$ 64.48		\$ 5.37

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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.

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS LINE

Belcore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:13

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) = 0.0000 from invest. : 0.2530

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

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PROVIDED TO PUCO

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

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C:\123R24\LCAT\CALC\DIST
DIST_PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS LINE

Belcore (P)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:13

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

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\$0 \$75
\$75
bctmiv

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

C:\123R24\LCAT\CALC\DIST DIST_PLNT - WORKSHEET B Sheet 3 of 3			LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET					Bellcore [®] LCAT Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 20-Jan-97 TIME: 10:13	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 2 - BUSINESS LINE						
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TP [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - 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			bctshrinvs bctdlinvs			bctshrinvs bctdlinvs			
			\$ 0 \$ 75			\$ 0.00 \$ 29.42		\$ 0.00 \$ 2.45	
			bctshrinvs bctdlinvs			bctshrinvs bctdlinvs			

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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.

CA123R24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL		Bellcore (P)	
DIST_PLANT - 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 2 - BUSINESS LINE		TEST CASE: 1	
STATE / PROV: OHIO				RUN DATE: 20-Jan-97	
				TIME: 10:14	
0					
1					
2					
3					
4					
5	TYPE OF PLANT	UNIT	PROB.	WEIGHTED	
6	ITEM	PLANT	OF	TERMINAL	
7		INVEST.	OCCURANCE	INVESTMENT	
8		[A]	[B]	[C=A*B]	
9	INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00	
10	BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00	
11					
12	AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00	
13					
14	BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00	
15					
16	AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00	
17					
18	BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00	
19					
20	COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00	
21					
22					
23					
24					
25	POLE LINE FACTOR (PLF) =	0.0000	0.2530		
26	POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =	\$ 0.00			
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47	FOOTNOTES				
48	NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.				
49	NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS				
50					
51					
52					
53					
54					
55					

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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	
CIRCUIT SEGMENT: SERVICE ACCESS										RUN DATE: 20-Jan-97	
SERVICE CLASS: BAND 2 - BUSINESS LINE										TIME: 10:14	
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION			
					SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES		
				[F]	[G]	[H=F*G]	[I=F*G]	[J]	[K=H/J]	[L=I/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					0.0000			
MISC. COM EQP & PWR	57C	V	SHARED					0.0000			
POLE LINE	1C	F	DIRECT	0.00				0.0000			
CONDUIT	4C	F	DIRECT					0.0000			
										\$ 0	\$ 75
										\$ 0	\$ 75
										bctivity	

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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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CA123R24LCATCALCDIST		LOOP COST ANALYSIS TOOL				Bellicore [®]	
DIST PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release : 1.0.4	
Sheet 1 of 3		FACILITY TYPE : COPPER CABLE				Issue Date : 8/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT SEGMENT : DISTRIBUTION PLANT NON-DLC NON-COLLOC				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 2 - BUSINESS LINE				TEST CASE: 1	
STATE / PROV: OHIO						RUN DATE: 20-Jan-97	
						TIME: 10:14	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
BAND		0				TOTAL	
MIX		1.0000				AVG. WEIGHTED	
AVG.						INVESTMENT	
CODE		6711					
LGTH.		1013.0					
SEG. LGTH.						1013	
SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
27	LAND	20C					\$ 0.00
28	BUILDING	10C					\$ 0.00
29	BLDG ENTRANCE CABLE	12C					\$ 0.00
30	INTRABLDG CABLE	52C					\$ 0.00
31	AERIAL CABLE (COPPER)	22C	\$ 2.57				\$ 2.57
32	BURIED CABLE (COPPER)	45C	\$ 1.84				\$ 1.84
33	UNDERGROUND (CU) CA.	5C	\$ 0.26				\$ 0.26
34	CO EQPT - P GAIN TERM	257C					\$ 0.00
35	CO EQPT - P GAIN CHAN	257C					\$ 0.00
36	CO EQPT - FO MUX TERM	857C					\$ 0.00
37	CO EQPT - FO MUX CHAN	857C					\$ 0.00
38	CO EQPT - ANALOG SW	77C					\$ 0.00
39	CO EQPT - DIGITAL SW	377C					\$ 0.00
40	AERIAL CABLE (FIBER)	822C					\$ 0.00
41	BURIED CABLE (FIBER)	845C					\$ 0.00
42	UNDERGROUND (FO) CA.	85C					\$ 0.00
43	CONNECTORS	57C					\$ 0.00
44	MISC. COM EQP & PWR	57C					\$ 0.00
45	POLE LINE	1C	\$ 0.61				\$ 0.61
46	CONDUIT	4C	\$ 0.09				\$ 0.09
SPAN SUMMARY							
51	AVG. WTD. SPAN SUMMARY		\$ 5.37	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
52			\$ 5.37	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
53							
54	NOTE:	[sum(INV _{ADCT} BAND * MIX BAND)]					\$ 5.37

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G T M C O			LOOP COST ANALYSIS TOOL		Bellcore®	
DIST. PLANT - 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 2 - BUSINESS LINE		STUDY YR: 1996	
CITY / AREA: CINCINNATI					TEST CASE: 1	
STATE / PROV: OHIO					RUN DATE: 20-Jan-97	
					TIME: 10:14	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						
ALL						
BAND MIX						
ACCT AVG.						
LGTH.						
PLANT ITEM						
CODE						
SHARED RESOURCES						
7 LAND 20C						
8 BUILDING 10C						
9 BLDG ENTRANCE CABLE 12C						
10 INTRABLDG CABLE 52C						
11 AERIAL CABLE (COPPER) 22C						
BURIED CABLE (COPPER) 45C						
UNDERGROUND (CU) CA. 5C						
14 CO EQPT - P GAIN TERM 257C						
15 CO EQPT - P GAIN CHAN 257C						
16 CO EQPT - FO MUX TERM 857C						
17 CO EQPT - FO MUX CHAN 857C						
18 CO EQPT - ANALOG SW 77C						
19 CO EQPT - DIGITAL SW 377C						
20 AERIAL CABLE (FIBER) 822C						
21 BURIED CABLE (FIBER) 845C						
22 UNDERGROUND (FO) CA. 85C						
23 CONNECTORS 57C						
24 MISC. COM EQP & PWR 57C						
25 POLE LINE 1C						
26 CONDUIT 4C						
27						
DIRECT RESOURCES						
28 LAND 20C						
29 BUILDING 10C						
30 BLDG ENTRANCE CABLE 12C						
31 INTRABLDG CABLE 52C						
32 AERIAL CABLE (COPPER) 22C						
33 BURIED CABLE (COPPER) 45C						
34 UNDERGROUND (CU) CA. 5C						
35 CO EQPT - P GAIN TERM 257C						
36 CO EQPT - P GAIN CHAN 257C						
37 CO EQPT - FO MUX TERM 857C						
38 CO EQPT - FO MUX CHAN 857C						
39 CO EQPT - ANALOG SW 77C						
40 CO EQPT - DIGITAL SW 377C						
41 AERIAL CABLE (FIBER) 822C						
42 BURIED CABLE (FIBER) 845C						
43 UNDERGROUND (FO) CA. 85C						
44 CONNECTORS 57C						
45 MISC. COM EQP & PWR 57C						
46 POLE LINE 1C						
47 CONDUIT 4C						
48						
49						
50 SPAN TOTAL						
51						
52						
53						
54						
55						

2.45

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C:\123R24\LCATCALC\CUTECH
RUN - SUB PRI

LAST UPDATE

20-Jan-97

09:41

LOOP COST ANALYSIS TOOL

Belcore (R)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS LINE STUDY 0 - 14000 FEET

CURRENT TEST PLAN : CURRENT JOB IDENT.

BASIS	NETWORK	TEST CASE	
FR / DS	FLAT RATE	#BANDS	MUST BE GIVEN
SVC LEVEL	NARBAND	#CKTS	RELEASE TO PUBLIC
CST METH	UN INCR	INV LEVEL	ANN COST

PROVIDED TO PECO

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

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CA\123R24\LCATCALC\CUTECH
SUB PRI - 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 2 - BUSINESS LINE

Belcore[®]
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 20-Jan-97
TIME: 10:16

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 -- RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 -- MID CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fcfr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
5698	AERIAL	0.290000	1652.42	0.011900	19.66		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.020000	113.96	0.020500	2.34		0.00	0.00	
CABLE	UNDERGRND	0.690000	3931.62	0.011000	43.25		0.00	0.00	
CHECK =		1.000000							

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION		
(CO CONN) CONNECTORS (coi77c) =	\$ 0.00	
	inv / unit lctth: inv rtn fcfr:	
POLE LINE FACTOR =	0.000000	0.253000
POLE LINE INVESTMENT =	\$ 8.29	
(UTIL AERIAL INVEST x PL)		
UG CONDUIT FACTOR =	0.000000	0.516500
CONDUIT INVESTMENT =	\$ 37.23	
(UTIL UNDGRND INVEST x UC)		

MISC. COMMON EQPT. & POWER FACTOR = 0.12700
MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00

LAND FACTOR = 0.00560
LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00
BUILDING FACTOR = 0.173160
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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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.
NOTE 2: E * fcfr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)
NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.
NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).

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