

Confidential Release

Case Number: 96-899-TP-ALT

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Part 9

MCI Exhibits

1-48

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A B C D E F G		C:\123R24\LCATR079\RESULTS1 OUTPUT - WORKSHEET D SHEET 9 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore LCAT Ref: 1.0.4 Issued: 7/31/95	
		COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 6 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 2 - BUSINESS LINE TOTAL LOOP LENGTH: 23774 FEET		STUDY YR: 199 TEST CASE: -- RUN DATE: 27-Jan-99 TIME: 10:4			
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							WEIGHTED
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL			TOTAL	
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE		LOC	
3		EQPT							
4		PLANT							
5		CODE							
6		ITEM DESCRIPTION							
7		<u>SHARED RESOURCES</u>							
8		LAND	20C					\$0	
9		BUILDING	10C					\$0	
10		BLDG ENTRANCE CABLE	12C					\$0	
11		INTRABLDG CABLE	52C					\$0	
12		AERIAL CABLE (COPPER)	22C					\$0	
13		BURIED CABLE (COPPER)	45C					\$0	
14		UNDERGROUND (CU) CA.	5C					\$0	
15		CO EQPT - LOW CAP TERM	257C					\$0	
16		CO EQPT - LOW CAP CHAN	257C					\$0	
17		CO EQPT - HI CAP TERM	857C					\$0	
18		CO EQPT - HI CAP CHAN	857C					\$0	
19		CO EQPT - ANALOG SW	77C					\$0	
20		CO EQPT - DIGITAL SW	377C					\$0	
21		AERIAL CABLE (FIBER)	822C					\$0	
22		BURIED CABLE (FIBER)	845C					\$0	
23		UNDERGROUND (FO) CA.	85C					\$0	
24		CONNECTORS	57C					\$0	
25		MISC. COM EQP & PWR	57C					\$0	
26		POLE LINE	1C					\$0	
27		CONDUIT	4C					\$0	
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND	20C					\$0	
31		BUILDING	10C					\$0	
32		BLDG ENTRANCE CABLE	12C					\$0	
33		INTRABLDG CABLE	52C					\$0	
34		AERIAL CABLE (COPPER)	22C					\$0	
35		BURIED CABLE (COPPER)	45C					\$0	
36		UNDERGROUND (CU) CA.	5C					\$0	
37		CO EQPT - LOW CAP TERM	257C					\$0	
38		CO EQPT - LOW CAP CHAN	257C					\$0	
39		CO EQPT - HI CAP TERM	857C					\$0	
40		CO EQPT - HI CAP CHAN	857C					\$0	
41		CO EQPT - ANALOG SW	77C					\$0	
42		CO EQPT - DIGITAL SW	377C					\$0	
43		AERIAL CABLE (FIBER)	822C					\$0	
44		BURIED CABLE (FIBER)	845C					\$0	
45		UNDERGROUND (FO) CA.	85C					\$0	
46		CONNECTORS	57C					\$0	
47		MISC. COM EQP & PWR	57C					\$0	
48		POLE LINE	1C					\$0	
49		CONDUIT	4C					\$0	
50									
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0	
52									
53		PROVIDED TO PUCO \$0							
54									
55									

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C:\123R24\LCATR079\RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 10 of 10							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: MELDED		FOMUX		STUDY YR: 199		
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP		SPANS		TEST CASE:		
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE				RUN DATE: 27-Jan-9		
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 23774 FEET				TIME: 10:4		
Technology Type Mix: 1.00001		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOG	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		
SEG. NAME		PRIMARY		EXTENSION		SUB-INTERFACE		
EQPT						LOOP		
CODE						TOTAL		
PLANT						LOC		
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND		20C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.032
BUILDING		10C	\$ 0.97	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.97	\$ 0.970
BLDG ENTRANCE CABLE		12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
INTRABLDG CABLE		52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
AERIAL CABLE (COPPER)		22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
BURIED CABLE (COPPER)		45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
UNDERGROUND (CU) CA.		5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - LOW CAP TERM		257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - LOW CAP CHAN		257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - HI CAP TERM		857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - HI CAP CHAN		857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - ANALOG SW		77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - DIGITAL SW		377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
AERIAL CABLE (FIBER)		822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
BURIED CABLE (FIBER)		845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
UNDERGROUND (FO) CA.		85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CONNECTORS		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
MISC. COM EQP & PWR		57C	\$ 0.43	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.43	\$ 0.433
POLE LINE		1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CONDUIT		4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
DIRECT RESOURCES								
LAND		20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
BUILDING		10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
BLDG ENTRANCE CABLE		12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.40	\$ 2.395
INTRABLDG CABLE		52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
AERIAL CABLE (COPPER)		22C	\$ 0.00	\$ 0.00	\$ 0.06	\$ 4.93	\$ 0.00	\$ 4.990
BURIED CABLE (COPPER)		45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 3.53	\$ 0.00	\$ 3.540
UNDERGROUND (CU) CA.		5C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 0.49	\$ 0.00	\$ 0.600
CO EQPT - LOW CAP TERM		257C	\$ 2.88	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.875
CO EQPT - LOW CAP CHAN		257C	\$ 7.80	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.795
CO EQPT - HI CAP TERM		857C	\$ 0.71	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.705
CO EQPT - HI CAP CHAN		857C	\$ 1.20	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.204
CO EQPT - ANALOG SW		77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
CO EQPT - DIGITAL SW		377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
AERIAL CABLE (FIBER)		822C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.073
BURIED CABLE (FIBER)		845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
UNDERGROUND (FO) CA.		85C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.067
CONNECTORS		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
MISC. COM EQP & PWR		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.000
POLE LINE		1C	\$ 0.02	\$ 0.00	\$ 0.01	\$ 1.15	\$ 0.00	\$ 1.205
CONDUIT		4C	\$ 0.03	\$ 0.00	\$ 0.04	\$ 0.17	\$ 0.00	\$ 0.243
SPAN SUMMARY			\$ 14.22	\$ 0.00	\$ 0.23	\$ 10.30	\$ 2.40	\$ 27.14
								\$ 27.14

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C:\123R24\LCATCALC\DIST

Bellcore[®]

RUN - DIST PLNT

LCAT

LAST UPDATE

27-Jan-97

10:21

LOOP COST ANALYSIS TOOL

Release: 1.0.4

Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 14001

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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PRIOR TO RELEASEyour run is finished
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Printed 27-Jan-97 RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL. RATES PLAN

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

LOOP COST ANALYSIS TOOL

Bellcore[®]

BASIC INVESTMENT WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC.)

SERVICE CLASS: BAND 2 - BUSINESS LINE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 10:38

SEGMENT LENGTH IN FEET [A]	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 - 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
		1989.0	AERIAL	0.620000	1233.2	0.042600	52.53		0.00
CONSIDERS: MELDED	BURIED	0.330000	656.4	0.066800	43.85		0.00	0.00	
COPPER CABLE	UNDERGRND	0.050000	99.5	0.058000	5.77		0.00	0.00	
Check =		1.000000	1989.0						
OUTSIDE PLANT LOADINGS		(NOTE 4)							
DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:							
AERIAL CA. = 0.0000		AERIAL CA. = 0.0000							
BURIED CA. = 0.0000		BURIED CA. = 0.0000							
UNDERGRND = 0.0000		UNDERGRND = 0.0000							
OTHER INVESTMENT									
POLE LINE FACTOR (PLF) = 0.0000		inv / unit lgth: inv by fct: 0.2500							
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 37.97		0.3145							
UG CONDUIT FACTOR (UCF) = 0.0000									
CONDUIT INVESTMENT (UTIL UNDGRND INVT x UCF) = \$ 8.51									
CONFIDENTIAL NO INFORMATION MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO									
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										Belcore®	
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-COLLO)										TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL.										RUN DATE: 27-Jan-97	
CITY / AREA: CINCINNATI										TIME: 10:38	
STATE / PROV: OHIO											
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 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					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	52.53	1		\$ 53	0.3500		\$ 150	
BURIED CABLE (COPPER)	45C	V	DIRECT	43.85	1		\$ 44	0.3500		\$ 125	
UNDERGROUND (CU) CA.	5C	V	DIRECT	5.77	1		\$ 6	0.3500		\$ 18	
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	37.97	1		\$ 38	1.0000		\$ 38	
CONDUIT	4C	F	DIRECT	8.51	1		\$ 9	1.0000		\$ 9	

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\$ 338
distinvy

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:\123R2\LCATCALO.DIST		LOOP COST ANALYSIS TOOL						Belcore ^(P)	
DIST_PLNT - WORKSHEET A		PROSPECTIVE AND ANNUAL COSTS WORKSHEET						LCAT Release : 1.0.4	
Sheet 3 of 3		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-DLG/NON-COLLOC)						TEST CASE: 1	
		SERVICE CLASS : BAND 2 - BUSINESS LINE						RUN DATE : 27-Jan-97	
								TIME : 10:38	
		1996 UNIT LOOP INVESTMENT BY ACCOUNT				1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 150	0.3943		\$ 59.18		\$ 4.93
BURIED CABLE (COPPER)	45C	1.0000		\$ 125	0.3377		\$ 42.30		\$ 3.53
UNDERGROUND (CU) CA.	5C	1.0000		\$ 16	0.3573		\$ 5.69		\$ 0.49
CO EQPT - P GAIN TERM	257C	1.0000			0.3791				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT - FO MUX TERM	857C	1.0000			0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		\$ 38	0.3717		\$ 14.12		\$ 1.18
CONDUIT	4C	1.0000		\$ 9	0.2431		\$ 2.07		\$ 0.17
TOTALS			\$ 0	\$ 338		\$ 0.00	\$ 123.56	\$ 0.00	\$ 10.30
				P4394			\$ 123.56		\$ 10.30
			distshnnv	distdirnv		distann	distmrc		

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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.

CM:23R24ILCATCALC/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

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 10:39

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) = 1.0000
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

from invest.: 0.2533

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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

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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: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 27-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 10:38	
SERVICE CLASS: BAND 2 - BUSINESS LINE											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION			
					SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000	\$ 75		
INTRABLDG CABLE	52C	V	DIRECT	0.00				0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500			
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED					1.0000			
POLE LINE	1C	F	DIRECT	0.00				1.0000			
CONDUIT	4C	F	DIRECT					1.0000			
								\$ 0	\$ 75		
									\$ 75		
								bctmivly			

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

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\LCATCALC\DIST			LOOP COST ANALYSIS TOOL					Bellcore (P)	
DIST_PLNT - WORKSHEET B			PROSPECTIVE AND ANNUAL COSTS WORKSHEET					LCAT	
Sheet 3 of 3			FACILITY TYPE: COPPER CABLE					Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.			CIRCUIT SEGMENT: SERVICE ACCESS					STUDY YR: 1996	
CITY / AREA: CINCINNATI								TEST CASE: 1	
STATE / PROV: OHIO			SERVICE CLASS: BAND 2 - BUSINESS LINE					RUN DATE: 27-Jan-97	
								TIME: 10:38	
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			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3832		\$ 28.74		\$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT - P GAIN TERM	257C	1.0000			0.3791				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT - FO MUX TERM	857C	1.0000			0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
TOTALS			\$ 0	\$ 75		\$ 28.74		\$ 0.00	\$ 2.40

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FOR 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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LOOP COST ANALYSIS TOOL				Belcore®
BASIC INVESTMENT WORKSHEET				LCAT
C:\123R24\LCAT\CALC\DIST		FACILITY TYPE : COPPER CABLE		Release : 1.0.4
DIST_PLNT - WORKSHEET B		CIRCUIT SEGMENT : SERVICE ACCESS		STUDY YR: 1996
Sheet 1 of 3		SERVICE CLASS : BAND 2 - BUSINESS LINE		TEST CASE: 1
COMPANY: CINCINNATI BELL TEL.				RUN DATE: 27-Jan-97
CITY/AREA: CINCINNATI				TIME: 10:38
STATE/PROV: OHIO				
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	
				CONFIDENTIAL
				NOTICE MUST BE GIVEN
				PRIOR TO RELEASE TO PUBLIC
				PROVIDED TO PUCO
POLE LINE FACTOR (PLF) =		0.0000	from invest. :	
POLE LINE INVESTMENT (UTIL AERIAL INVEST x PLF) =		\$ 0.00	0.2530	
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 3 of 3

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

FACILITY TYPE: COPPER CABLE
 CIRCUIT SEGMENT: SERVICE ACCESS
 SERVICE CLASS: BAND 2 - BUSINESS LINE

Release: 1.0.4
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 27-Jan-97
 TIME: 10:38

LOOP COST ANALYSIS TOOL
 PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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]		SHARED RESOURCES [P=M*N] [P=M'*N]	DIRECT RESOURCES [R=P/12] [R'=P'/12]		
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3832		\$ 28.74		\$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT - P GAIN TERM	257C	1.0000			0.3791				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT - FO MUX TERM	857C	1.0000			0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2834				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 28.74	\$ 0.00	\$ 2.40

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 bctshrinv bctdirinv
 bctshrinv bctdirinv

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

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LOOP COST ANALYSIS TOOL				Bellcore TM	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI				STUDY YR: 1996	
STATE / PROV: OHIO				TEST CASE: 1	
FACILITY TYPE: COPPER CABLE				RUN DATE: 27-Jan-97	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)				TIME: 10:38	
SERVICE CLASS: BAND 2 - BUSINESS ONE					
logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
		BAND	0	(See Note)	
		MIX	1.0000	TOTAL	
		AVG.		AVG. WEIGHTED	
PLANT		CODE	23774	INVESTMENT	
ACCT		LGTH.	1989.0	1989	
SEQ. LGTH.					
SHARED RESOURCES					
7	LAND	20C			\$ 0.00
8	BUILDING	10C			\$ 0.00
9	BLDG ENTRANCE CABLE	12C			\$ 0.00
10	INTRABLDG CABLE	52C			\$ 0.00
11	AERIAL CABLE (COPPER)	22C			\$ 0.00
12	BURIED CABLE (COPPER)	45C			\$ 0.00
13	UNDERGROUND (CU) CA.	5C			\$ 0.00
14	CO EQPT - P GAIN TERM	257C			\$ 0.00
15	CO EQPT - P GAIN CHAN	257C			\$ 0.00
16	CO EQPT - FO MUX TERM	857C			\$ 0.00
17	CO EQPT - FO MUX CHAN	857C			\$ 0.00
18	CO EQPT - ANALOG SW	77C			\$ 0.00
19	CO EQPT - DIGITAL SW	377C			\$ 0.00
20	AERIAL CABLE (FIBER)	822C			\$ 0.00
21	BURIED CABLE (FIBER)	845C			\$ 0.00
22	UNDERGROUND (FO) CA.	85C			\$ 0.00
23	CONNECTORS	57C			\$ 0.00
24	MISC. COM EQP & PWR	57C			\$ 0.00
25	POLE LINE	1C			\$ 0.00
26	CONDUIT	4C			\$ 0.00
DIRECT RESOURCES					
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	\$ 4.93		\$ 4.93
34	BURIED CABLE (COPPER)	45C	\$ 3.53		\$ 3.53
35	UNDERGROUND (CU) CA.	5C	\$ 0.49		\$ 0.49
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	\$ 1.18		\$ 1.18
48	CONDUIT	4C	\$ 0.17		\$ 0.17
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NOTICE MUST BE GIVEN					
PRICED BY THE FOLLOWING:					
SPAN SUMMARY		\$ 10.30	\$ 0.00	\$ 0.00	\$ 0.00
AVG. WTD. SPAN SUMMARY		\$ 10.30	\$ 0.00	\$ 0.00	\$ 0.00
NOTE:		[SUM(I)INV _{ACCT} BAND * MIX BAND]			
		PROVIDED			
		\$ 10.30			

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C:\123R24\LCAT\CALC\DIST			LOOP COST ANALYSIS TOOL		Bellcore®	
DIST_PLNT - REPORT 148			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT	
Sheet 1 of 1			CIRCUIT SEGMENT : <u>SERVICE ACCESS</u>		Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL.			SERVICE CLASS: BAND 2 - BUSINESS LINE		STUDY YR: 1996	
CITY / AREA: CINCINNATI					TEST CASE:	
STATE / PROV: OHIO					RUN DATE: 27-Jan-97	
					TIME: 10:38	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						
ALL						
BAND MIX						
ACCT AVG.						
LGTH.						
PLANT ITEM						
CODE						
SHARED RESOURCES						
LAND 20C						
BUILDING 10C						
BLDG ENTRANCE CABLE 12C						
INTRABLDG CABLE 52C						
AERIAL CABLE (COPPER) 22C						
BURIED CABLE (COPPER) 45C						
UNDERGROUND (CU) CA. 5C						
CO EQPT - P GAIN TERM 257C						
CO EQPT - P GAIN CHAN 257C						
CO EQPT - FO MUX TERM 857C						
CO EQPT - FO MUX CHAN 857C						
CO EQPT - ANALOG SW 77C						
CO EQPT - DIGITAL SW 377C						
AERIAL CABLE (FIBER) 822C						
BURIED CABLE (FIBER) 845C						
UNDERGROUND (FO) CA. 85C						
CONNECTORS 57C						
MISC. COM EQP & PWR 57C						
POLE LINE 1C						
CONDUIT 4C						
DIRECT RESOURCES						
LAND 20C						
BUILDING - 10C						
BLDG ENTRANCE CABLE 12C						
INTRABLDG CABLE 52C						
AERIAL CABLE (COPPER) 22C						
BURIED CABLE (COPPER) 45C						
UNDERGROUND (CU) CA. 5C						
CO EQPT - P GAIN TERM 257C						
CO EQPT - P GAIN CHAN 257C						
CO EQPT - FO MUX TERM 857C						
CO EQPT - FO MUX CHAN 857C						
CO EQPT - ANALOG SW 77C						
CO EQPT - DIGITAL SW 377C						
AERIAL CABLE (FIBER) 822C						
BURIED CABLE (FIBER) 845C						
UNDERGROUND (FO) CA. 85C						
CONNECTORS 57C						
MISC. COM EQP & PWR 57C						
POLE LINE 1C						
CONDUIT 4C						
SPAN TOTAL						

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RUN - SUB PRI

LAST UPDATE

27-Jan-97

10:22

LOOP COST ANALYSIS TOOL

Bellcore^(R)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 14001 F

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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Printed 27-Jan-97 RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL. RATES PLA.

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY

SERVICE CLASS: BAND 2 -- BUSINESS LINE

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

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 10:39

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 WLD 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]
300	AERIAL	0.290000	87.00	0.011900	1.04		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.020000	6.00	0.020500	0.12		0.00	0.00	
CABLE	UNDERGRND	0.690000	207.00	0.011000	2.28		0.00	0.00	
CHECK =		1.000000							

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION (CO CONN) CONNECTORS (coi77c) = \$ 0.00

POLE LINE FACTOR = 0.000000

POLE LINE INVESTMENT = \$ 0.44

(UTIL AERIAL INVEST x PL)

UG CONDUIT FACTOR = 0.000000

CONDUIT INVESTMENT = \$ 1.96

(UTIL UNDGRND INVEST x UC)

MISC. COMMON EQPT. & POWER FACTOR = 0.112700

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 = 0.13160

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

NOTICE: THIS INFORMATION IS UNCLASSIFIED AND IS TO BE RELEASED TO PUBLIC

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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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LOOP COST ANALYSIS TOOL										Bellcore®	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1995	
CIRCUIT SEGMENT: WELDED GAUGE'S SUB-PRIMARY										TEST CASE: 1	
SERVICE CLASS: BAYD 2 - BUSINESS LINE										RUN DATE: 27-Jan-97	
										TIME: 10:30	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1995 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY [G]	1995 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1995 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	1.04	-1		\$ 1	0.6000		\$ 2	
BURIED CABLE (COPPER)	45C	V	DIRECT	0.12	1		\$ 0	0.6000		\$ 0	
UNDERGROUND (CU) CA.	5C	V	DIRECT	2.28	1		\$ 2	0.6000		\$ 4	
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000			
POLE LINE	1C	F	DIRECT	0.44				1.0000		\$ 0	
CONDUIT	4C	F	DIRECT	1.96				1.0000		\$ 2	
TOTALS										\$ 8	

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

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LOOP COST ANALYSIS TOOL									
PROSPECTIVE AND ANNUAL COSTS WORKSHEET									
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS									
FACILITY TYPE: COPPER CABLE									
CIRCUIT SEGMENT: MELDED GAUGE/SUB-PRIMARY									
SERVICE CLASS: BAND 2 - BUSINESS LINE									
1996 UNIT LOOP INVESTMENTS BY ACCOUNT									
1996 UNIT ANNUAL COSTS BY ACCOUNT									
1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT									
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 2	0.3943		\$ 0.68		\$ 0.06
BURIED CABLE (COPPER)	45C	1.0000		\$ 0	0.3377		\$ 0.07		\$ 0.01
UNDERGROUND (CU) CA.	5C	1.0000		\$ 4	0.3573		\$ 1.36		\$ 0.11
CO EQPT - LOW CAP TERM	257C	1.0000			0.3791				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3791				
CO EQPT - HI CAP TERM	857C	1.0000			0.3791				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		\$ 0	0.3717				\$ 0.01
CONDUIT	4C	1.0000		\$ 2	0.2431				\$ 0.04
SUBTOTALS			\$ 0	\$ 8	\$ 0.00	\$ 2.74	\$ 0.00	\$ 0.23	\$ 0.23
TOTALS			\$ 0	\$ 8	\$ 0.00	\$ 2.74	\$ 0.00	\$ 0.23	\$ 0.23
			culpinvsv			culpac		culpmrc	

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

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CA123R24LCATCALCVCUTECH		LOOP COST ANALYSIS TOOL		Bellcore®	
SUB PR: - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Release: 1.0.4	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL		Issue Date: 7/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: SUB-PRIMARY PLANT		STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE		TEST CASE: 1	
				RUN DATE: 27-Jan-97	
				TIME: 10:39	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
(SEE NOTE)					
TOTAL					
AVG. WEIGHTED					
300					

6 SHARED RESOURCES					
7	LAND	20C			\$ 0.00
8	BUILDING	10C			\$ 0.00
9	BLDG ENTRANCE CABLE	12C			\$ 0.00
10	INTRABLDG CABLE	52C			\$ 0.00
11	AERIAL CABLE (COPPER)	22C			\$ 0.00
12	BURIED CABLE (COPPER)	45C			\$ 0.00
13	UNDERGROUND (CU) CA.	5C			\$ 0.00
14	CO EQPT - P GAIN TERM	257C			\$ 0.00
15	CO EQPT - P GAIN CHAN	257C			\$ 0.00
16	CO EQPT - FO MUX TERM	857C			\$ 0.00
17	CO EQPT - FO MUX CHAN	857C			\$ 0.00
18	CO EQPT - ANALOG SW	77C			\$ 0.00
19	CO EQPT - DIGITAL SW	377C			\$ 0.00
20	AERIAL CABLE (FIBER)	822C			\$ 0.00
21	BURIED CABLE (FIBER)	845C			\$ 0.00
22	UNDERGROUND (FO) CA.	85C			\$ 0.00
23	CONNECTORS	57C			\$ 0.00
24	MISC. COM EQP & PWR	57C			\$ 0.00
25	POLE LINE	1C			\$ 0.00
26	CONDUIT	4C			\$ 0.00
27					
28 DIRECT RESOURCES					
29	LAND	20C			\$ 0.00
30	BUILDING	10C			\$ 0.00
31	BLDG ENTRANCE CABLE	12C			\$ 0.00
32	INTRABLDG CABLE	52C			\$ 0.00
33	AERIAL CABLE (COPPER)	22C	\$ 0.06		\$ 0.06
34	BURIED CABLE (COPPER)	45C	\$ 0.01		\$ 0.01
35	UNDERGROUND (CU) CA.	5C	\$ 0.11		\$ 0.11
36	CO EQPT - P GAIN TERM	257C			\$ 0.00
37	CO EQPT - P GAIN CHAN	257C			\$ 0.00
38	CO EQPT - FO MUX TERM	857C			\$ 0.00
39	CO EQPT - FO MUX CHAN	857C			\$ 0.00
40	CO EQPT - ANALOG SW	77C			\$ 0.00
41	CO EQPT - DIGITAL SW	377C			\$ 0.00
42	AERIAL CABLE (FIBER)	822C			\$ 0.00
43	BURIED CABLE (FIBER)	845C			\$ 0.00
44	UNDERGROUND (FO) CA.	85C			\$ 0.00
45	CONNECTORS	57C			\$ 0.00
46	MISC. COM EQP & PWR	57C			\$ 0.00
47	POLE LINE	1C	0.0	\$ 0.01	\$ 0.01
48	CONDUIT	4C	0.0	\$ 0.04	\$ 0.04
49					
50	SPAN SUMMARY		\$ 0.23	\$ 0.00	\$ 0.23
51					
52	AVG. WTD. SPAN SUMMARY		\$ 0.23	\$ 0.00	\$ 0.23
53					
54	NOTE: [sum((INV _{ACCT} ^{BAND} * MIX ^{BAND})]				
55					

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

LAST UPDATE

27-Jan-97

10:23

LOOP COST ANALYSIS TOOL

BellicoreTM

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 14001 FEE - INFINITY

CURRENT TEST PLAN :

CURRENT JOB IDENT.

CINCINNATI

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

PROVIDED

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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: 6/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1995	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: T1C										DATE: 27-Jan-97	
SERVICE CLASS: BAND 2 - BUSINESS LINE										TIME: 10:40 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
23774 cur lgth											
300 cur/or-1gth											
f = 0.125 pcfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4)											
(NOTE 3)											
SEGMENT LENGTH IN FEET											
TYPE OF CABLE											
RELATIVE MIX OF TYPE OF CA. PLANT											
EFFECTIVE LENGTH BY TYPE INVEST. PER UNIT FOOT											
CABLE INVESTMENT PER CHAN											
WEIGHTED TERMINAL INVESTMENT											
AIR DRYER INVESTMENT PER PAR											
DROP WIRE ADJUSTMENT PER PAR											
WEIGHTED DROP WIRE INVESTMENT PER PAR											
[A] [B] [C=A*B*f] [D] [E=C*D] [F=DTC] [G=F*tr] [H=F*tr] [I=F*tr]											
21485 AERIAL 0.290000 778.83 0.023800 \$ 18.54 \$ 0.00											
CO TO RT LINK ON BURIED 0.020000 53.71 0.041000 \$ 2.20 \$ 0.00											
COPPER CABLE DLC 24.00 GA. FACILITIES UNDERGRND 0.690000 1853.08 0.022000 \$ 40.77 \$ 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 = conpgmvst \$ 0.00											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =											
UGD CONDUIT FACTOR (UCF) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCF) =											
LOOP TOPOLOGY											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF RING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
STAR											
NA											
NA											
0.0000											
1.0000											
1.0000											
0.0000											
NOTICE MUST											
PRIOR TO RELEASE											
PROVIDED TO PUCO											
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.											

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/85	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1990	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: 11C										DATE: 27-Jan-97	
SERVICE CLASS: BAND 2 - BUSINESS LINE										TIME: 10:40 AM	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION		
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED	1.47	1	\$ 1		1.0000	\$ 1		
BUILDING	10C	F	SHARED	34.76	1	\$ 35		1.0000	\$ 35		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	18.54	1		\$ 19	0.6000		\$ 31	
BURIED CABLE (COPPER)	45C	V	DIRECT	2.20	1		\$ 2	0.6000		\$ 4	
UNDERGROUND (CU) CA.	5C	V	DIRECT	40.77	1		\$ 41	0.6000		\$ 68	
CO EQPT - P GAIN TERM	257C	F	DIRECT	79.13	1		\$ 79	0.7000		\$ 113	
CO EQPT - P GAIN CHAN	257C	V	DIRECT	172.79	1		\$ 173	0.7000		\$ 247	
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00				1.0000			
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	11.23	1	\$ 11		1.0000	\$ 11		
POLE LINE	1C	F	DIRECT	7.82	1			1.0000		\$ 8	
CONDUIT	4C	F	DIRECT	35.09	1			1.0000		\$ 35	
TOTALS											

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

CM123R24/LCATCALC/CUPRGN CDLC PLANT - WORKSHEET 1 Sheet 3 of 3	LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY FACILITY TYPE: COPPER DIG LOOP CXR CIRCUIT DESIGN: T. C SERVICE CLASS: BAND 2 - BUSINESS LINE	Bellcore [®] LCAT Release: 1.0.4 Issue Date: 8/31/95 STUDY YR: 1996 TEST CASE: 1 DATE: 27-Jan-97 TIME: 10:40 AM
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI		

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED	DIRECT		SHARED	DIRECT	SHARED	DIRECT
			RESOURCES [L]	RESOURCES [M=K*L]		RESOURCES [P=M*N]	RESOURCES [P'=M'*N]	RESOURCES [R=P/12]	RESOURCES [R'=P'/12]
LAND	20C	1.0000		\$ 1	0.2232	\$ 0.33		\$ 0.03	
BUILDING	10C	1.0000		\$ 35	0.2847	\$ 9.90		\$ 0.82	
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 31	0.3943		\$ 12.18		\$ 1.02
BURIED CABLE (COPPER)	45C	1.0000		\$ 4	0.3377		\$ 1.24		\$ 0.10
UNDERGROUND (CU) CA.	5C	1.0000		\$ 68	0.3573		\$ 24.28		\$ 2.02
CO EQPT - P GAIN TERM	257C	1.0000		\$ 113	0.3791		\$ 42.86		\$ 3.57
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 247	0.3791		\$ 93.58		\$ 7.80
CO EQPT - FO MUX TERM	857C	1.0000			0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000				
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000		\$ 11	0.3791	\$ 4.26		\$ 0.35	
POLE LINE	1C	1.0000		\$ 8	0.3717				\$ 0.24
CONDUIT	4C	1.0000		\$ 35	0.2431		\$ 8.53		\$ 0.71
			=====	=====	=====	=====	=====	=====	=====
TOTALS			\$ 47	\$ 505		\$ 14.48	\$ 18.47	\$ 1.21	\$ 15.46
				\$ 553		\$ 200.05			\$ 16.67
			FEED1SY			FEED1ANN		FEED1MRC	

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

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

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LOOP COST ANALYSIS TOOL				Belcore [®]	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
CDLC PLANT - REPORT 14.1				Issue Date: 8/31/95	
Sheet 1 of 3				STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL.				FACILITY SEGMENT: PRIMARY FEEDER SEGMENT	
CITY / AREA: CINCINNATI				CIRCUIT DESIGN: T1 COPPER DIG LOOP CXR	
STATE / PROV: OHIO				SERVICE CLASS: BAND 2 - BUSINESS LINE	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				TEST CASE: 1	
				DATE: 27-Jan-97	
				TIME: 10:41 AM	
				(SEE NOTE)	
				TOTAL	
				AVG. WEIGHTED	
				INVESTMENT	
				21485	
SHARED RESOURCES					
1	LAND	20C	\$ 0.03	\$ 0.03	
2	BUILDING	10C	\$ 0.82	\$ 0.82	
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	\$ 0.35	\$ 0.35	
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	\$ 1.02	\$ 1.02	
26	BURIED CABLE (COPPER)	45C	\$ 0.10	\$ 0.10	
27	UNDERGROUND (CU) CA.	5C	\$ 2.02	\$ 2.02	
28	CO EQPT - P GAIN TERM	257C	\$ 3.57	\$ 3.57	
29	CO EQPT - P GAIN CHAN	257C	\$ 7.80	\$ 7.80	
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	\$ 0.24	\$ 0.24	
40	CONDUIT	4C	\$ 0.71	\$ 0.71	
SPAN SUMMARY				16.67	0.00
AVG. WTD. SPAN SUMMARY				16.67	0.00
NOTE: (sum(INV _{ACCT} * MIX _{UNIT}))					

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

27-Jan-97

Issued: 7/31/95

10:24

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 14001 FEET

CURRENT TEST PLAN :

CURRENT JOB IDENT.	CINCINNATI
BASIS	NETWORK TEST CASE I
FR / DS	RELATIVE BANDS
SVC LEVEL	NARBAND #CKTS
CST METH	INCR MIN LEVEL ANN COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Rev: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 10:42	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from stdr tbl: 300 cur stdrigh 12779.5 cur_pnlgth SEGMENT LENGTH IN FEET fo3pri_segldth [A] 21485 CO TO HUB LINK ON FIBER OPTIC FACILITIES TYPE OF CABLE PLANT AERIAL BURIED UNDERGRND RELATIVE MIX OF TYPE OF CA PLANT [B] 0.480000 0.000000 0.520000 1.000000											
from bw mix: f = 1979.04 wtdeqvmn EFFECTIVE LENGTH MLD CABLE SUBSET DESIGN INVEST. PER OF PLANT PAIR FOOT [C=A*B/f] [D] 5.21 0.193000 0.00 0.269400 5.65 0.182700											
CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] 1.01 WEIGHTED TERMINAL INVESTMENT [U]*DTC [E]*DTC 0.00 AIR DRYER INVESTMENT PER PAIR [E]*DTC 0.00 DROP WIRE ADJUSTMENT PER PAIR [E]*DTC 0.00 DROP WIRE INVESTMENT PER PAIR [U]*DTC 0.00											
EQUIPMENT INVESTMENT LOADINGS INVST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127 MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 13.71 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR OTH (LANDfrem) = 0.0056 LAND FACTOR FOR OTH (LANDfrem) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0056 LAND FACTOR FOR OTH (LANDfc.o.) = 0.0056 LAND INVST. (DLC+MUX+MCEP) x LANDfc.o. = \$ 0.76 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfc.o.) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o. = \$ 17.81 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09											
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST. / LOAD FACTORS TO AERIAL PFI NA 0.0000 ADJUST. / LOAD FACTORS TO BURIED PFI NA 0.0000 ADJUST. / LOAD FACTORS TO UGD PFI NA 0.0000 DLC EQUIPMENT INVEST. (NOTE 2) INT DLC EQUIP INVEST. (CU COMUX) = intdlcco_ \$ 0.00 \$ 0.00 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt_ \$ 51.57 \$ 85.28 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco_ \$ 12.14 \$ 87.51 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt_ \$ 51.57 \$ 85.28 FIBER MUX EQUIP. INV. (FO COMUX) = hubmx0co_ \$ 2.35 \$ 19.62 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmx0rt_ \$ 2.35 \$ 18.49											
OTHER INVESTMENT POLE LINE FACTOR (PL) = fpplf 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) = \$ 0.60 UNDERGROUND CONDUIT FACTOR (PL) = fuct 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 1.84											
LOOP TOPOLOGY STAR AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 1.0000 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSINSERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 10:42	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT INVESTMENTS BY ACCOUNT 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION ADMIN. UTIL LINE FILL 1996 UNIT LOOP INVESTMENT INCL UTILIZATION											
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL LINE FILL	SHARED RESOURCES	DIRECT RESOURCES	
LAND	20C	F	SHARED	1.74	1	\$ 2		1.0000	\$ 2		
BUILDING	10C	F	SHARED	40.90	1	\$ 41		1.0000	\$ 41		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000			
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
CO EQPT - LOW CAP TERM	257C	F	DIRECT	63.71	1		\$ 64	0.7000			\$ 91
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	172.79	1		\$ 173	0.7000			\$ 247
CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	1		\$ 22	1.0000			\$ 22
CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	1		\$ 38	1.0000			\$ 38
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT	1.01	1			0.3300			\$ 3
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT	1.03	1		\$ 1	0.3300			\$ 3
CONNECTORS	57C	V	DIRECT	0.00				1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	13.71				1.0000			
POLE LINE	1C	F	DIRECT	0.60				1.0000			\$ 1
CONDUIT	4C	F	DIRECT	1.64	1		\$ 2	1.0000			\$ 2
TOTALS \$ 56 \$ 407 \$ 480 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]

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LOOP COST ANALYSIS TOOL										Bellcore v9	
ANNUAL COSTS WORKSHEET										LCAT Rev: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 10:42	
Sheet 3 of 3											
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: CINCINNATI											
STATE / PROV: OHIO											
1996 UNIT LOOP INVESTMENT BY ACCOUNT											
1996 UNIT ANNUAL COSTS BY ACCOUNT											
1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ACCT CODE											
1996 TO 1996											
PLANT ITEM											
[PREVIOUS SHEET SUMMARY]											
LAND											
BUILDING											
BLDG ENTRANCE CABLE											
INTRABLDG CABLE											
AERIAL CABLE (COPPER)											
BURIED CABLE (COPPER)											
UNDERGROUND (CU) CA.											
CO EQPT - LOW CAP TERM											
CO EQPT - LOW CAP CHAN											
CO EQPT - HI CAP TERM											
CO EQPT - HI CAP CHAN											
CO EQPT - ANALOG SW											
CO EQPT - DIGITAL SW											
AERIAL CABLE (FIBER)											
BURIED CABLE (FIBER)											
UNDERGROUND (FO) CA.											
CONNECTORS											
MISC. COM EQP & PWR											
POLE LINE											
CONDUIT											
TOTALS											
CONFIDENTIAL											
NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC											
PROVIDED TO PUCO											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.											
HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.											

A
B
C
D
E
F
G

C:\123R24\LCAT\CALC\FOPRGN.WK1

FO_MUX - REPORT 14.3

Sheet 1 of 1

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

FOR PRIMARY FEEDER PLANT

FACILITY TYPE: FIBER IN THE LOOP

CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.

SERVICE CLASS: BAND 2 - BUSIN SERVICE LEVEL: NARBAND

Bellcore (R)

LCAT Rel: 1.0.4

ISSUE DATE: 7/31/95

STUDY YR: 1996

TEST CASE: 1

LAST RUN: 27-Jan-97

TIME: 10:42

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)
TOTAL				AVG WEIGHTED
INVESTMENT				21485
SHARED RESOURCES				
LAND	20C	\$ 0.03		\$ 0.03
BUILDING	10C	\$ 0.97		\$ 0.97
BLDG ENTRANCE CABLE	12C			\$ 0.00
INTRABLDG CABLE	52C			\$ 0.00
AERIAL CABLE (COPPER)	22C			\$ 0.00
BURIED CABLE (COPPER)	45C			\$ 0.00
UNDERGROUND (CU) CA.	5C			\$ 0.00
CO EQPT - LOW CAP TERM	257C			\$ 0.00
CO EQPT - LOW CAP CHAN	257C			\$ 0.00
CO EQPT - HI CAP TERM	857C			\$ 0.00
CO EQPT - HI CAP CHAN	857C			\$ 0.00
CO EQPT - ANALOG SW	77C			\$ 0.00
CO EQPT - DIGITAL SW	377C			\$ 0.00
AERIAL CABLE (FIBER)	822C			\$ 0.00
BURIED CABLE (FIBER)	845C			\$ 0.00
UNDERGROUND (FO) CA.	85C			\$ 0.00
CONNECTORS	57C			\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.43		\$ 0.43
POLE LINE	1C			\$ 0.00
CONDUIT	4C			\$ 0.00
DIRECT RESOURCES				
LAND	20C			\$ 0.00
BUILDING	10C			\$ 0.00
BLDG ENTRANCE CABLE	12C			\$ 0.00
INTRABLDG CABLE	52C			\$ 0.00
AERIAL CABLE (COPPER)	22C			\$ 0.00
BURIED CABLE (COPPER)	45C			\$ 0.00
UNDERGROUND (CU) CA.	5C			\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 2.88		\$ 2.88
CO EQPT - LOW CAP CHAN	257C	\$ 7.80		\$ 7.80
CO EQPT - HI CAP TERM	857C	\$ 0.71		\$ 0.71
CO EQPT - HI CAP CHAN	857C	\$ 1.20		\$ 1.20
CO EQPT - ANALOG SW	77C			\$ 0.00
CO EQPT - DIGITAL SW	377C			\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.07		\$ 0.07
BURIED CABLE (FIBER)	845C			\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.07		\$ 0.07
CONNECTORS	57C			\$ 0.00
MISC. COM EQP & PWR	57C			\$ 0.00
POLE LINE	1C	\$ 0.02		\$ 0.02
CONDUIT	4C	\$ 0.03		\$ 0.03
SPAN SUMMARY				
		14.22	0.00	\$ 14.22
AVG. WTD. SPAN SUMMARY				
		14.22	0.00	\$ 14.22
NOTE: [sum(INV _{ACCT} * MIX ^{BAND})]				

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C:\123R24\LCATR079\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore[®]TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENTCOMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1995

TEST CASE: 1

LAST UPDATE: 10-Dec-95

TIME: 09:28

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS							
		NARROWBAND				WIDEBAND		BROADBAND	
		PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	CATEGORY	SENS. INDEX	RESOURCE ASSIGNMENT	CATEGORY	SENS. INDEX
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	
INTRASLDG 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	57G	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\LCATR079.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.

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

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CA123R24\LCATR079\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENTCOMPANY: CINCINNATI BELL TEL.
STATE: OHIO

[SWITCHED] SERVICES

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 10-Dec-96

TIME: 09:28

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS					
	NARROWBAND		WIDEBAND		BROADBAND	
PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT
LAND						
BUILDING						
BLDG ENTRANCE CABLE						
INTRABLDG CABLE						
AERIAL CABLE (COPPER) ①	22C	F SHARED	F SHARED	F SHARED	F SHARED	F SHARED
BURIED CABLE (COPPER) ①	10C	F SHARED	F SHARED	F SHARED	F SHARED	F SHARED
UNDERGROUND (CU) CA. ①						
CO EQPT - LOW CAP TERM						
CO EQPT - LOW CAP CHAN						
CO EQPT - HI CAP TERM						
CO EQPT - HI CAP CHAN						
CO EQPT - ANALOG SW						
CO EQPT - DIGITAL SW						
AERIAL CABLE (FIBER)						
BURIED CABLE (FIBER)						
UNDERGROUND (FO) CA.						
CONNECTORS						
MISC. COM EQP & PWR						
POLE LINE						
CONDUIT						
	22C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	45C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	5C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	257C	F DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	257C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	857C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
	857C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
	77C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	377C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	822C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
	845C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
	85C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
	57C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
	57C	V SHARED	V SHARED	V SHARED	V SHARED	V SHARED
	1C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
	4C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT

FOOTNOTES

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

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TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

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

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****
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C:\123R24\LCAT079\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 27-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				10-Dec-96 09:29 AM	
STUDY NAME		1996 BAND 2 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 14001 FEET - INFINITY INTRASTAT			
COMMENTS					
SERVICE CLASS		BAND 2 - 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		NOTICE MUST BE GIVEN	
DIGITAL LOOP CARRIER		FACILITIES INCLUDED IN THE STUDY:		PRIOR TO RELEASE TO PUBLIC	
		Type Percent Mix:		PROVIDED TO PUCO	
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			

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C:\123R24\LCATR079\CRITERIA
INPUT - STUDY SETUP
Sheet 1 of 2

HELP SCREENBelcore[®]

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 services/ under study or enter an 'X' to denote inclusion.

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

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

PRESS <Enter> KEY TO RETURN TO THE MAIN MENU

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CM123R24\LCAT079\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 2 - BUSINESS LINE		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 09:29 AM				
CONCERNING - SERVICE SPEC.	SELECTED QUESTIONS 1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ?	VALID RESPONSE SET N or A S or P N, W or B 2 or 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">NEW</td></tr> <tr><td style="text-align: center;">SWITCHED</td></tr> <tr><td style="text-align: center;">NARROWBAND</td></tr> <tr><td style="text-align: center;">2</td></tr> </table>	NEW	SWITCHED	NARROWBAND	2	
NEW								
SWITCHED								
NARROWBAND								
2								
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?	0 → 100 0 → 100 0 → 100 e.g. 12000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">14000 Feet</td></tr> </table>	100	0	14000 Feet		
100								
0								
14000 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 1,2,3,4 0 → 5 T or M 0 → 999	<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;">PUBLIC</td></tr> <tr><td style="text-align: center;">COST</td></tr> <tr><td style="text-align: center;">TOT INCR</td></tr> <tr><td style="text-align: center;">RATES PLAN</td></tr> </table>	FLAT RATE	PUBLIC	COST	TOT INCR	RATES PLAN
FLAT RATE								
PUBLIC								
COST								
TOT INCR								
RATES PLAN								

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CA123R24\LCATR079\CRITERIA

HELP SCREENBellcore[®]

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR079\DESIGN		LOOP COST ANALYSIS TOOL		Bellcore
INPUT - LOOP_DESIGN Sheet 1 / 1 COMPANY : CINCINNATI BELL TEL. CITY / AREA : CINCINNATI STATE / PROV : OHIO		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS LINE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 10-Dec-96 TIME : 10:10

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 <u>0.0000</u> FACILITY TECHNOLOGIES: Of the Hubbed Circuits - Proportion of links on Fiber Tech. <u>0.0000</u> Proportion of links on CDLC / MAR: <u>0.0000</u> FOR SERVICE ACCESS NETWORK (REMOTE TERMINAL TO CUSTOMER LINK) FACILITY INTERFACE SITES : Proportion of Remote terminals colocated at Customer Premises <u>0.0000</u>	CIRCUIT DESIGN REQUIREMENTS - SELECTION & DISTRIBUTION: Note FOR FIBER DLC DESIGNS: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;">Weighting of Design #1</td> <td style="width:20%; text-align: center;">0.0000</td> </tr> <tr> <td>Weighting of Design #2</td> <td style="text-align: center;">0.0000</td> </tr> <tr> <td>Weighting of Design #3</td> <td style="text-align: center;">1.0000</td> </tr> <tr> <td>Weighting of Design #4</td> <td style="text-align: center;">NA 0.0000</td> </tr> <tr> <td>Weighting of Design #5</td> <td style="text-align: center;">NA 0.0000</td> </tr> <tr> <td>Weighting of Design #6</td> <td style="text-align: center;">NA 0.0000</td> </tr> <tr> <td></td> <td style="text-align: center; border-top: 1px solid black;">1.0000 ChkSum</td> </tr> </table> CONFIDENTIAL FOR COPPER DLC DESIGNS NOTED MUST BE EVEN PRIOR TO RELEASE TO PUBLIC PROBABLY DOES NOT APPLY TO THIS SET OF STUDY PARAMETERS. <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;">Weighting of Design #1</td> <td style="width:20%; text-align: center;">0.0000</td> </tr> <tr> <td>Weighting of Design #2</td> <td style="text-align: center;">NA 0.0000</td> </tr> <tr> <td></td> <td style="text-align: center; border-top: 1px solid black;">1.0000 ChkSum</td> </tr> </table>	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	0.0000	Weighting of Design #2	NA 0.0000		1.0000 ChkSum
Weighting of Design #1	0.0000																				
Weighting of Design #2	0.0000																				
Weighting of Design #3	1.0000																				
Weighting of Design #4	NA 0.0000																				
Weighting of Design #5	NA 0.0000																				
Weighting of Design #6	NA 0.0000																				
	1.0000 ChkSum																				
Weighting of Design #1	0.0000																				
Weighting of Design #2	NA 0.0000																				
	1.0000 ChkSum																				

C:\123R24\LCATR079\DESIGN
INPUT - LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN**Bellcore**

LCAT Rel :1.0.4
Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

WARNING

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

**SERVICE
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choices will be limited for BROADBAND service levels to those which currently support DS3Xconnect at both ends (currently, that is, *DESIGN* 4, 5, & 6).

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

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C:\123R24\LCATR079\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1/4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.04	
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 2 - BUSINESS LINE		LAST UPDATE: 10-Dec-96	
				TIME: 10:14	
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	0.4800	0.0000	factors
		BURIED	0.0000	0.0000	factors
		UNDGRD	0.5200	0.0000	factors
INVESTMENT PER CABLE PAIR FOOT					
BY CABLE TYPE:					
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N)			N	[Required with INDIVIDUAL Mode]	
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable, Installed as ...		AERIAL	\$ 0.1930	per fiber pair Foot	
		BURIED	\$ 0.2694	per fiber pair Foot	
		UNDGRD	\$ 0.1827	per fiber pair Foot	
CONFIDENTIAL					
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as ...		AERIAL	\$ 0.1930	0.0000	per fiber pair Foot
		BURIED	\$ 0.2694	0.0000	per fiber pair Foot
		UNDGRD	\$ 0.1827	0.0000	per fiber pair Foot
		(Fiber Hub to Remote Terminal)		(Remote Terminal to Service Point)	
PROVIDED TO POCO					

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TABLE - SPAN INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS LINE				LCAT Ver: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:14	
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE							
Cable Sheath Sizes			Unit Investment per Cable Pair Foot. by Cable Type, by Cable Size				
CAPACITY	INDEX	AERIAL	BURIED	UNDERGROUND			
4	Fiber Cable	2 pr	\$		\$		\$
6	Fiber Cable	3 pr	\$		\$		\$
12	Fiber Cable	6 pr	\$		\$		\$
18	Fiber Cable	9 pr	\$		\$		\$
24	Fiber Cable	12 pr	\$		\$		\$
36	Fiber Cable	18 pr	\$		\$		\$
48	Fiber Cable	24 pr	\$		\$		\$
60	Fiber Cable	30 pr	\$		\$		\$
72	Fiber Cable	36 pr	\$		\$		\$
84	Fiber Cable	42 pr	\$		\$		\$
96	Fiber Cable	48 pr	\$		\$		\$
144	Fiber Cable	72 pr	\$		\$		\$
192	Fiber Cable	96 pr	\$		\$		\$
216	Fiber Cable	108 pr	\$		\$		\$

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TABLE - SPAN_INV
SHEET 1 / 4

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

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C:\123R24\LCATR079\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore TM																																																																			
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 2 - BUSINESS LINE				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:14																																																																			
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																																																									
Cable Gauge Mix : <u>GAUGE</u> The Proportion of Copper Cable that is		FEEDER SEGMENT 0.1500 0.1500 0.8500 0.8500 0.0000 0.0000		DISTRIBUTION SEGMENT 0.1500 0.1500 0.8500 0.8500 0.0000 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;"> <thead> <tr> <th></th> <th>GAUGE</th> <th>FEEDER SEGMENT</th> <th>DISTRIBUTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</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>			GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	26 GA.	AERIAL	0.2900	0.6200	BURIED	0.0200	0.3300	UNDGRND	0.6900	0.0500	24 GA.	AERIAL	0.2900	0.6200	BURIED	0.0200	0.3300	UNDGRND	0.6900	0.0500	22 GA.	AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>GAUGE</th> <th>FEEDER SEGMENT</th> <th>DISTRIBUTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> <td>\$ 0.0426</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> <td>\$ 0.0668</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> <td>\$ 0.0580</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> <td>\$ 0.0426</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> <td>\$ 0.0668</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> <td>\$ 0.0580</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>			GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	26 GA.	AERIAL	\$ 0.0119	\$ 0.0426	BURIED	\$ 0.0205	\$ 0.0668	UNDGRND	\$ 0.0110	\$ 0.0580	24 GA.	AERIAL	\$ 0.0119	\$ 0.0426	BURIED	\$ 0.0205	\$ 0.0668	UNDGRND	\$ 0.0110	\$ 0.0580	22 GA.	AERIAL	\$ 0.0000	\$ 0.0000	BURIED	\$ 0.0000	\$ 0.0000	UNDGRND	\$ 0.0000	\$ 0.0000
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NOTE : If the DROP WIRE resource Investment is average values, it may be passed 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 FOR										LCAT Ref: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS LINE										STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:14
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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TABLE - SPAN_INV
SHEET 2 / 4

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LCAT

INPUT SCREEN

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LCAT

INPUT SCREEN

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C:\123R24\LCATR079\FACILITY.WK1		LOOP COST ANALYSIS TOOL				Belcore®
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR				LCAT Rel: 1.0.2
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE				Issue Date: 07/31/85
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT				STUDY YR: 1986
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE				TEST CASE: 1986
						DATE: 1
						LAST UPDATE: 10-Dec-86
						TIME: 10:14

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pf...fd)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:					
AERIAL @ 26 GA.	[A] 0.290000	[B] \$ 0.011900	[C] 0.1500	[D=A*C] 0.043500	[E=B*C] \$ 0.001785
BURIED @ 26 GA.	0.020000	\$ 0.020500	0.1500	0.003000	\$ 0.003075
UNDGRND @ 26 GA.	0.690000	\$ 0.011000	0.1500	0.103500	\$ 0.001650
AERIAL @ 24 GA.	0.290000	\$ 0.011900	0.8500	0.246500	\$ 0.010115
BURIED @ 24 GA.	0.020000	\$ 0.020500	0.8500	0.017000	\$ 0.017425
UNDGRND @ 24 GA.	0.690000	\$ 0.011000	0.8500	0.586500	\$ 0.009350
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

TABLE 2		TABLE 4		TABLE 6	
DATA DESC.	CABLE TYPE MIX RANGE NAME	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR:					
AERIAL	[F=sum(D*TYPE)] 0.290000	[G=sum(E*TYPE)] 0.011900		[H=F*TYPE / sum(F*TYPE)] 0.001785	
BURIED	0.020000	\$ 0.020500		0.003075	
UNDERGRND	0.690000	\$ 0.011000		0.001650	
Check = 1.000000				Check = 1.000000	

FOOTNOTES

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C:\123R24\LCATR079\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA		LCAT Rel : 1.0.4 Issued : 07/31/95
COMPANY: CINCINNATI BELL TEL		FOR		STUDY YR : 1996
CITY / AREA: CINCINNATI		INVESTMENT YEAR : 1996		TEST CASE : 1
STATE/PROV: OHIO		LOOP STUDY YEAR : 1996		LAST UPDATE : 10-Dec-96
		SERVICE CLASS : BAND 2 - BUSINESS LINE		TIME : 10:14
<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 Pairs 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
CONFIDENTIAL NOTICE: NO DISCLOSURE TO PUBLIC PRIOR TO RELEASE TO PUCO PROVIDED TO PUCO				
NOTE:				
① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.				

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C:\123R24\LCATR079\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 = (# of xmsnpr + # 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\LCATR079\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore (R)
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTION'S MELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT		STUDY YR: 1995 TEST CASE: 1995 DATE: 1 LAST UPDATE: 10-Dec-95 TIME: 10:14
		SERVICE CLASS: BAND 2 - 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		
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT	BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT
DESCRIPTION	2 * (PF1cgg) [D]	(RPTR ggg) [E=C]	(ADLCPP1cgg) [F=D+E]	(ADLCPP1c) [G=ADLCPP1c]
AERIAL @ 26 GA.	\$ 0.023800	\$ 0.000000	\$ 0.023800	\$ 0.023800
BURIED @ 26 GA.	\$ 0.041000	\$ 0.000000	\$ 0.041000	\$ 0.041000
UNDGRND @ 26 GA.	\$ 0.022000	\$ 0.000000	\$ 0.022000	\$ 0.022000
AERIAL @ 24 GA.	\$ 0.023800	\$ 0.000000	\$ 0.023800	\$ 0.023800
BURIED @ 24 GA.	\$ 0.041000	\$ 0.000000	\$ 0.041000	\$ 0.041000
UNDGRND @ 24 GA.	\$ 0.022000	\$ 0.000000	\$ 0.022000	\$ 0.022000
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
FOR DLC Gauge: 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT				
CONFIDENTIAL NOT TO BE RELEASED TO PUBLIC PRIOR TO RELEASE TO PUCO				
NOTES: ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.				

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C:\123R24\LCATR079\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								
COM COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996		STUDY YR: 1996								
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE:								
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE		LAST UPDATE: 10-Dec-96 TIME: 10:14								
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS												
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :										
The Average Number of Terminals in the Service Access Segment of a Loop -												
Proportion of Loops that use.....	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td>Aerial</td><td>0.00</td></tr> <tr><td>Buried</td><td>0.00</td></tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td>Aerial Termination</td><td>0</td></tr> <tr><td>Buried Termination</td><td>0</td></tr> </table>	Aerial Termination	0	Buried Termination	0	
Aerial	0.00											
Buried	0.00											
Aerial Termination	0											
Buried Termination	0											
The Average Drop Wire & Building Entrance Cable Installation -												
Proportion of Loops that use..	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td>Aerial Wire Drops</td><td>0.0000</td></tr> <tr><td>Buried Wire Drops</td><td>0.0000</td></tr> <tr><td>Bldg Entrance Cable</td><td>1.0000</td></tr> <tr><td>Aerial Coax/Wire Drops</td><td>0.0000</td></tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest. for DW Investment ? (Y/N)	N	
Aerial Wire Drops	0.0000											
Buried Wire Drops	0.0000											
Bldg Entrance Cable	1.0000											
Aerial Coax/Wire Drops	0.0000											
		Per Unit Installation.....	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td>Aerial Wire Drops</td><td>\$ 0.00</td></tr> <tr><td>Buried Wire Drops</td><td>\$ 0.00</td></tr> <tr><td>Bldg Entrance Cable</td><td>\$ 75.00</td></tr> <tr><td>Aerial Coax/Wire Drops</td><td>\$ 0.00</td></tr> </table>	Aerial Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00	
Aerial Wire Drops	\$ 0.00											
Buried Wire Drops	\$ 0.00											
Bldg Entrance Cable	\$ 75.00											
Aerial Coax/Wire Drops	\$ 0.00											
The Average Intrabuilding Cable Installation -												
Proportion of Installations with Intrabuilding Cable	0.0000	Per Unit for a Intrabuilding Network Cable Pair		\$ 0.00								

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\\LCATR079\FACILITY
SPAN_INV
4

HELP SCREEN

Belcore (R)
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.

bec
coaxinv

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

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

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C:\123R24\LCATR079\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES		
		FOR		LCAT Rel : 1.0.4
		ANNUALIZATION FACTORS		Issued : 3/31/95
COMPANY : CINCINNATI BELL TEL.		INVESTMENT YEAR : 1996	STUDY YEAR : 1996	STUDY YR : 1996
CITY / AREA : CINCINNATI				TEST CASE : 1
STATE / PROV : OHIO		SERVICE CLASS : BAND 2 - BUSINESS LINE		LAST UPDATE : 20-Jan-97
				TIME : 12:52

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2232
BUILDING	1.0000	0.2847
BLDG ENTRANCE CABLE	1.0000	0.3832
INTRABLDG CABLE	1.0000	0.3832
AERIAL CABLE (COPPER)	1.0000	0.3943
BURIED CABLE (COPPER)	1.0000	0.3377
UNDERGROUND (CU) CA.	1.0000	0.3573
CO EQPT - LOW CAP TERM	1.0000	0.3791
CO EQPT - LOW CAP CHAN	1.0000	0.3791
CO EQPT - HI CAP TERM	1.0000	0.3791
CO EQPT - HI CAP CHAN	1.0000	0.3791
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3368
AERIAL CABLE (FIBER)	1.0000	0.2893
BURIED CABLE (FIBER)	1.0000	0.2634
UNDERGROUND (FO) CA.	1.0000	0.2599
CONNECTORS	1.0000	0.3791
MISC. COM EQP & PWR	1.0000	0.3791
POLE LINE	1.0000	0.3717
CONDUIT	1.0000	0.2431

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C:\123R24\LCATR079\INVEST		LOOP COST ANALYSIS TOOL				Bellcore [®]	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE				LAST UPDATE: 09-Jan-97 15:34	
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT:							
For each cable pair associated with twisted pair copper cable				\$ 0.00			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
For each line repeater for one copper digroup (not svc lev)			\$ 0.00				
For an Office Repeater Bay for a T1 Line			\$ 0.00				
For a Universal DLC Equipment Arrangement			\$ 0.00	\$ 87.51	\$ 12.14	\$ 85.28	\$ 51.57
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 85.28	\$ 51.57
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 19.62		\$ 2.35	\$ 18.49	\$ 2.35
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement			\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
3. For a Fiber HUB and Fiber Remote Terminal Arrangement						\$ 0.00	\$ 0.00
4. For Fiber Ring Hub Arrangements (Extensions)						\$ 0.00	\$ 0.00
CEV HOUSING per CIRCUIT by SERVICE LEVEL:							
For CEV's used as fiber hubs for FO Multiplexer equipment							\$ 0.00
For CEV's used as remote terminals for CDLC equipment							\$ 0.00
[Unit Investment denotes average weighted unit E.F.I investment at DS0, DS1, or DS3 service equiv.]							

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CA123R24\LCATR079\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

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

LCAT Commands Description

This Command will allow the User -

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

Line Items Description

This Equipment Item Represents -

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

See Circuit Designs :

COE Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip.	2,3,4 & 6
REM Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip.	2,3,4 & 6
COE Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.	1 & 5
REM Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Site.	1 & 5
REM Field Item 4	FITL Hubbed Arrangements, RING Span Equip, Remote Site.	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 *****
 *****PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION*****

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C:\123R24\LCATR079\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 2 - BUSINESS LINE		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:18
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	Hut		1.0000
		Comm. Svc. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore**®

LCAT Rel: 1.0.4

Issued: 3/31/95

NOTE:

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

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***** 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\LCATR079\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 2 - BUSINESS LINE		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:18																																																											
SEGMENT DISTRIBUTION FEEDER ② use DEFAULT 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 DEFAULT 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 2 of 2

HELP SCREEN

Bellcore (R)

LCAT Rel : 1.0.4
Issued : 3/31/95

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

NOTES

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR079\SPAN		LOOP COST ANALYSIS TOOL		Bellcore																				
INPUT - PLANT_CHAR. Sheet 1 / 5 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR INVESTMENT YEAR : 1996 LOOP STUDY YEAR : 1996 SERVICE CLASS : BAND 2 - BUSINESS LINE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 10-Dec-95 TIME : 10:22																				
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY																								
LOOP TOPOLOGY Loop FEEDER Network Configuration is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration is (S)tar or (B)us SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>TOTAL LOOP</td> <td>23774.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>1989.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>21485.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR			TOTAL LOOP	23774.0	DISTRIBUTION	1989.0	SUB-PRIMARY	300.0	PRIMARY	21485.0	PRIMARY-EXTENSION	
ACTION SEGMENT																								
PRIMARY	STAR																							
PRIMARY	NA																							
DISTRIBUTION	STAR																							
TOTAL LOOP	23774.0																							
DISTRIBUTION	1989.0																							
SUB-PRIMARY	300.0																							
PRIMARY	21485.0																							
PRIMARY-EXTENSION																								
LOOP LENGTH AT EACH COST BAND BAND 1 BAND 2 BAND 3 BAND 4 BAND 5		DISTRIBUTION OF COST BANDS IN THE NETWORK BAND 1 BAND 2 BAND 3 BAND 4 BAND 5																						
LAST 23774.0		LAST 1.0000 1.0000 Hint																						

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C:\123R24\LCATR079\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT		LCAT Rev: 1.0.4	
Sheet 1 / 1		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1998	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE		LAST UPDATE: 10-Dec-98	
				TIME: 10:22	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
<u>LOOP LENGTH</u> 23774 FEET					

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C:\123R24\LCATR079 SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT Rel : 1.0.4 Issued : 07/31/95	
AVERAGE NETWORK STUDY -		This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.			
INDIVIDUAL CIRCUIT STUDY -		This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.			
DATA SAMPLE NETWORK STUDY -		This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weighting formulae are applied to create an average weighted Loop cost per pair foot.			
BANDWIDTH AVERAGING -		This feature of LCAT permits study level weighting of fiber 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\LCATR079\SPAN		LOOP COST ANALYSIS TOOL		Bellcore®	
INPUT = PLANT_CHAR. Sheet 2 of 2		HELP SCREEN		LCAT Rev: 1.0.4 Issued: 07/31/95	
COST DETAILS	When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User. When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.				
LOOP TOPOLOGY	When the Loop Topology (circuit layout format) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.				
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION ***** CONSENT NOTICE FOR RELEASE TO PUCO PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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C:\123R24\LCATR079\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT CHAR.		LOOP FACILITY INPUT				LCAT Rel: 1.0.4	
Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				Issued: 07/31/95	
COMPANY: 0		FOR				STUDY YR: 1996	
CITY / AREA: 0		INVESTMENT YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		LOOP STUDY YEAR: 1996				LAST UPDATE: 10-Dec-96	
		SERVICE CLASS: BAND 2 - BUSINESS LINE				TIME: 10:22	
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 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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CA123R24\LCATR079\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)	
PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR		LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996		STUDY YR : 1996 TEST CASE : 1	
STATE: OHIO		SERVICE CLASS: BAND 2 - BUSINESS LINE		LAST UPDATE: 10-Dec-96 TIME : 10:22	
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]	[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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C:\123R24\LCATR079\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: BANO 2 - BUSINESS						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:22		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 100x	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									0.0
5400 COPPER CABLE	2700 pr									fdrcprf
6000 COPPER CABLE	3000 pr									0.0
7200 COPPER CABLE	3600 pr									fdrcprf
8400 COPPER CABLE	4200 pr									0.0
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\LCAT079\SPAN			LOOP COST ANALYSIS TOOL						Bellcore		
PLANT CHAR - WORKSHEET 33 Sheet 3b / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1		
STATE: OHIO			SERVICE CLASS: BAND 2 - BUSINESS						LAST UPDATE: 10-Dec-96 TIME: 10:22		
NETWORK CIRCUIT LAYOUT STUDIES			WORKSHEET B								
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES	CAPACITY idx		25 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	0.00	0.00	0.00	0.00	0.00	0.00
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00						0.00

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LOOP COST ANALYSIS TOOL

Beltcore 4

INPUT - PLANT_CHAR.
Sheet 4a / 5

LOOP FACILITY INPUT
COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER
FOR

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - BUSINESS

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LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 10-Dec-96
TIME: 10:22

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

~~STATE / PROV. ORIG~~
~~NETWORK CIRCUIT LAYOUT STUDIES~~

WORKSHEET A
CUMULATIVE LENGTHS BY CABLE PAIR FOOT

CABLE SHEATH SIZES		CAPACITY idx			26 GA.			24 GA.			22 GA.			
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD			
40 COPPER CABLE	20 pr													
50 COPPER CABLE	25 pr													
80 COPPER CABLE	40 pr													
100 COPPER CABLE	50 pr													
140 COPPER CABLE	70 pr													
200 COPPER CABLE	100 pr													
400 COPPER CABLE	200 pr													
600 COPPER CABLE	300 pr													
800 COPPER CABLE	400 pr													
1200 COPPER CABLE	600 pr													
1800 COPPER CABLE	900 pr													
2400 COPPER CABLE	1200 pr													
3000 COPPER CABLE	1500 pr													
3600 COPPER CABLE	1800 pr													
4200 COPPER CABLE	2100 pr													
4800 COPPER CABLE	2400 pr												0.0	
5400 COPPER CABLE	2700 pr												dstacprf	
6000 COPPER CABLE	3000 pr												0.0	
7200 COPPER CABLE	3600 pr												dstbcprf	
8400 COPPER CABLE	4200 pr												0.0	
SUB TOTALS			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	dstucprf	
TOTALS					0.0			0.0				0.0	0.0	

C:\123R24\LCATR079\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	
			SERVICE CLASS: BAND 2 - BUSINESS									LAST UPDATE: 10-Dec-96 TIME: 10:22	
NETWORK CIRCUIT LAYOUT STUDIES			WORKSHEET B										
			CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT										
CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.				
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD		
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00				
BURIED CABLE SUBTOTAL				0.00			0.00			0.00			
UNDGRD CABLE SUBTOTAL					0.00				0.00				

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C:\123R24\LCATR079\SPAN		LOOP COST ANALYSIS TOOL							Bellcore (R)	
INPUT - PANT_CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR							LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS LINE							STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:22	
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL		LEVEL OF SERVICE: <u>NARBAND</u>								
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE	PROTECTION	WEIGHTED
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL		EQUIVALENT
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE	n:1	CHANNELS
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	(SLM)	[E]	PERFO PAIR
										[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

FOOTNOTES

1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.

2 Where Wtd Eqv Chan per FO Pr [F] EQUALS (The Avg Wtd VGE for BR1 -> 7) DIVIDED BY (The [SLM]) TIMES PLUS 1 OVER PROT [E]

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PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1

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

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 10-Dec-96
TIME: 10:22

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)									
SELECT	MODE	HIERARCHY	BNDWD	DS1MULT	DS3MULT	VE	MEDIA		
0									
1		DS1	1.5 Mbps			0.04	24	BIDIR, 2WCU CA	
2	MODE3	DS1	1.5 Mbps			0.04	24	UNDIR, 4WCU CA	
3		VT1	1.5 Mbps			0.04	24	UNDIR, FIBER	
4		VT2	2 Mbps			0		UNDIR, FIBER	
5		ET	2 Mbps			0.06	30	BIDIR, 2WCU CA	
6	MODE1	DS1C	3.2 Mbps	NA			48	BIDIR, 2WCU CA	
7	MODE2	DS1C	3.2 Mbps		2	0.07	48	BIDIR, 2WCU CA	
8		VT3	3.2 Mbps		2	0.07	56	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		0	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		16		480		
15	X	DS3	45 Mbps		28	1	672	BIDIR, 2WCU CA	
16		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		I4M	139 Mbps			6	4032	BIDIR, COAX	
24		P140	139 Mbps			6	4032	BIDIR, COAX	
25	X		155 Mbps			3	2016	UNDIR, FIBER	
26	X		180 Mbps			4	2880	UNDIR, FIBER	
27			417 Mbps			9	6048	UNDIR, FIBER	
28		OC9	465 Mbps			9	6048	UNDIR, FIBER	
29		OC12	560 Mbps			12	7680	UNDIR, FIBER	
30			565 Mbps			12	8064	UNDIR, FIBER	
31			1.2 Gbps			24	16128	UNDIR, FIBER	
32			1.7 Gbps			36	24192	UNDIR, FIBER	
33		OC24	1.8 Gbps			24	24192	UNDIR, FIBER	
34			2.5 Gbps			24	34560	UNDIR, FIBER	
35									
36									
OFFSET									
0	1	2	3	4	5				

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PLANT_CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE: OHIOFOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - BUSINESS
WORKSHEET FSTUDY YR.: 1996
TEST CASE: 1
LAST UPDATE: 10-Dec-95
TIME: 10:22

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

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

ERROR MESSAG 0

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C:\123R24\LCATR079\SPAN PLANT CHAR. - WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO	LOOP COST ANALYSIS TOOL WORKSHEET SA	Bellcore (R) LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:22
--	--	---

Sub Feeder Allocation Table

Sub Feeder Allocation Table									
cur lplgth	distspan	dlcdepl	nom_range	cur_seg	distspan	dlcdepl	nom_range	cur_seg	distspan
500	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0
3000	1011	1011	0	1011	0	0	0	0	0
4000	2011	2011	0	2011	0	0	0	0	0
5000	3011	3011	0	3011	0	0	0	0	0
6000	4011	4011	0	4011	0	0	0	0	0
7000	5011	5011	0	5011	0	0	0	0	0
8000	6011	6011	0	6011	0	0	0	0	0
9000	7011	7011	0	7011	0	0	0	0	0
10000	8011	8011	0	8011	0	0	0	0	0
11000	9011	9011	0	9011	0	0	0	0	0
12000	10011	10011	0	10011	0	0	0	0	0
13000	11011	11011	0	11011	0	0	0	0	0
14000	12011	6005.5	6005.5	0	12011	7000	7000	0	14000
15000	13011	6505.5	6505.5	0	13011	7500	7500	0	15000
16000	14011	7005.5	7005.5	0	14011	8000	8000	0	16000
17000	15011	7505.5	7505.5	0	15011	8500	8500	0	17000
18000	16011	8005.5	8005.5	0	16011	9000	9000	0	18000
19000	17011	8505.5	8505.5	0	17011	9500	9500	0	19000
20000	18011	9005.5	9005.5	0	18011	10000	10000	0	20000
80000	78011	12011	66000	1000	77011	12011	67989	1000	79000

RULES

ASSUMPTION - Table LOOKUP will select from the lower NOM_RANGE of a 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^{star} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEGLGTH^{prior} Equals CUR_LPLGTH - NOM_RANGE difference

CUR_SEGLGTH - Calculation Assumptions

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

**OHIO ONLY
3 Geographic Areas**

07/26/96
Revised

Band 1

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

Residence			Business		
Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
A	B	C	D	E	F
6,081	1,103	7,184	5,765	638	6,403
107			255		
14,881	2,346	17,228	13,630	2,046	15,677
53			38		
0.5744			0.7433		
0.4256			0.2567		
1.0000			1.0000		

Band 2

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

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

Band 3

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

4,845	1,981	6,825	5,608
46			
23,301	4,826	28,127	27,360
56			
0.4510			
0.5490			
1.0000			

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OHIO ONLY
REVISED JAN 1997 VERSION
BAND 3
BUSINESS LINE
UNBUNDLED

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

INDEX

BAND 3

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
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55CM123R24\LCATR080\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORTBelcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 11:02COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT.: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - BUSINESS LINE
TOTAL LOOP LENGTH: 5608 FEETLoop Span Set Weighting: UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDYWEIGHTED
TOTAL
LOOP

PLANT NAME	FEEDER	DISTRIBUTION NETWORK	
SEG. NAME	PRIMARY	EXTENSION	SUB--
EQPT			INTERFACE
PLANT CODE			
ITEM DESCRIPTION	SEG.LGTH.		
SHARED RESOURCES			
LAND	20C	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00	\$ 0.00
DIRECT RESOURCES			
LAND	20C	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 2.26
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 2.16
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.40
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.54
CONDUIT	4C	\$ 0.00	\$ 0.14
SPAN SUMMARY		\$ 0.00	\$ 0.00

\$ 11.51

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CA123R24\LCATR080\RESULTS1		LOOP COST ANALYSIS TOOL					Belcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 1 of 10							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 CDLC					STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE					RUN DATE: 27-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 5608 FEET					TIME: 11:02	
Circuit Design Mix: T.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED	
PLANT NAME		FEEDER			DISTRIBUTION NETWORK		TOTAL	TOTAL
SEG. NAME		PRIMARY	EXTENSION	SUB--	INTERFACE	LOOP	LOOP	
EQPT								
PLANT								
CODE								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND		20C	\$ 0.00	\$ 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	\$ 2.40	\$ 2.40	
INTRABLDG CABLE		52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
AERIAL CABLE (COPPER)		22C	\$ 0.00	\$ 2.26	\$ 2.49	\$ 4.75	\$ 4.75	
BURIED CABLE (COPPER)		45C	\$ 0.00	\$ 0.16	\$ 2.54	\$ 2.70	\$ 2.70	
UNDERGROUND (CU) CA.		5C	\$ 0.00	\$ 0.40	\$ 0.00	\$ 0.40	\$ 0.40	
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	\$ 0.60	\$ 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	\$ 0.54	\$ 0.59	\$ 1.13	\$ 1.13	
CONDUIT		4C	\$ 0.00	\$ 0.14	\$ 0.00	\$ 0.14	\$ 0.14	
SPAN SUMMARY			\$ 0.00	\$ 0.00	\$ 3.50	\$ 5.62	\$ 2.40	
CIRCUIT DESIGN SUMMARY							\$ 11.52	

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A B C D E F G		LOOP COST ANALYSIS TOOL										Bellcore	
C:\123R24\LCATR080\RESULTS1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
OUTPUT - WORKSHEET D												Issued: 7/31/95	
SHEET 2 of 10		COMPANY: CINCINNATI BELL TEL					CIRCUIT DESIGN: 2 CDLC					STUDY YR: 1996	
		CITY / AREA: CINCINNATI					LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1	
		STATE / PROV: OHIO					SERVICE CLASS: BAND 3 - BUSINESS LINE					DATE: 27-Jan-97	
		JOB IDENT: CINCINNATI					TOTAL LOOP LENGTH: 5608 FEET					TIME: 11:02	
0		Circuit Design Mix: 0.0000										UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
1		PLANT NAME	FEEDER	EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP				
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP				
3		EQPT											
4		CODE											
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 - 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		CIRCUIT DESIGN SUMMARY										\$0	\$0
53												\$0	\$0
54												\$0	\$0
55												\$0	\$0

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C:\123R24\LCATR080\RESULTS: OUTPUT - WORKSHEET D SHEET 3 of 10			LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					Bellcore LCAT Rel: 1.0.4 Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI			CIRCUIT DESIGN: MELDED CDLC LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - BUSINESS LINE TOTAL LOOP LENGTH: 5608 FEET					STUDY YR: 1996 TEST CASE: 1 RUN DATE: 27-Jan-97 TIME: 11:02	
Technology Type Mix: 0.0000			UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY WEIGHTED	
PLANT NAME SEG. NAME EQPT CODE			FEEDER PRIMARY EXTENSION		DISTRIBUTION NETWORK SUB- INTERFACE		TOTAL 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		\$ 0.0000		
INTRABLDG CABLE 52C			\$ 0.00		\$ 0.00		\$ 0.0000		
AERIAL CABLE (COPPER) 22C			\$ 0.00		\$ 2.26		\$ 0.0000		
BURIED CABLE (COPPER) 45C			\$ 0.00		\$ 0.16		\$ 0.0000		
UNDERGROUND (CU) CA. 5C			\$ 0.00		\$ 0.40		\$ 0.0000		
CO EQPT - P GAIN TERM 257C			\$ 0.00		\$ 0.00		\$ 0.0000		
CO EQPT - P GAIN CHAN 257C			\$ 0.00		\$ 0.00		\$ 0.0000		
CO EQPT - FO MUX TERM 857C			\$ 0.00		\$ 0.00		\$ 0.0000		
CO EQPT - FO MUX 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		\$ 0.54		\$ 0.0000		
CONDUIT 4C			\$ 0.00		\$ 0.14		\$ 0.0000		
SPAN SUMMARY			\$ 0.00		\$ 3.50		\$ 0.00		
TECHNOLOGY DESIGN SUMMARY							\$ 11.52		

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A B C D E F G		C:\123R24\LCATR080\RESULTS1 OUTPUT - WORKSHEET D SHEET 4 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: 1 FOMUX		STUDY YR: 1996			
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
		STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		RUN DATE: 27-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 5608 FEET		TIME: 11:02			
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK		TOTAL	WEIGHTED		
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL	LOOP
3		EQPT							
4		CODE							
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	
52									
53									
54									
55									

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A B C D E F G		LOOP COST ANALYSIS TOOL										Bellcore ^(R)	
		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
		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 3 - BUSINESS LINE					RUN DATE: 27-Jan-97	
		JOB IDENT: CINCINNATI					TOTAL LOOP LENGTH: 5608 FEET					TIME: 11:02	
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
1		PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	WEIGHTED						
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL					
3		EQPT						LOOP					
4		PLANT	CODE						LOOP				
5		ITEM DESCRIPTION						LOOP					
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		<u>DIRECT RESOURCES</u>											
29		LAND	20C				\$0	\$0					
30		BUILDING	10C				\$0	\$0					
31		BLDG ENTRANCE CABLE	12C				\$0	\$0					
32		INTRABLDG CABLE	52C				\$0	\$0					
33		AERIAL CABLE (COPPER)	22C				\$0	\$0					
34		BURIED CABLE (COPPER)	45C				\$0	\$0					
35		UNDERGROUND (CU) CA.	5C				\$0	\$0					
36		CO EQPT - LOW CAP TERM	257C				\$0	\$0					
37		CO EQPT - LOW CAP CHAN	257C				\$0	\$0					
38		CO EQPT - HI CAP TERM	857C				\$0	\$0					
39		CO EQPT - HI CAP CHAN	857C				\$0	\$0					
40		CO EQPT - ANALOG SW	77C				\$0	\$0					
41		CO EQPT - DIGITAL SW	377C				\$0	\$0					
42		AERIAL CABLE (FIBER)	822C				\$0	\$0					
43		BURIED CABLE (FIBER)	845C				\$0	\$0					
44		UNDERGROUND (FO) CA.	85C				\$0	\$0					
45		CONNECTORS	57C				\$0	\$0					
46		MISC. COM EQP & PWR	57C				\$0	\$0					
47		POLE LINE	1C				\$0	\$0					
48		CONDUIT	4C				\$0	\$0					
49													
50													
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0					
52													
53													
54													
55													

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C:\123R24\LCATR080\RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore ^(R)		
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4		
SHEET 6 of 10							Issued: 7/31/95		
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 3 FOMUX					STUDY YR: 1998		
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1		
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE					RUN DATE: 27-Jan-97		
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 5608 FEET					TIME: 11:02		
Circuit Design Mix: 1.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		WEIGHTED	
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT								LOOP	
CODE								LOOP	
PLANT									
ITEM DESCRIPTION									
SHARED RESOURCES									
LAND		20C		\$ 0.00		\$ 0.00		\$ 0.00	
BUILDING		10C		\$ 0.00		\$ 0.00		\$ 0.00	
BLDG ENTRANCE CABLE		12C		\$ 0.00		\$ 0.00		\$ 0.00	
INTRABLDG CABLE		52C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (COPPER)		22C		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (COPPER)		45C		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (CU) CA.		5C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP TERM		257C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP CHAN		257C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP TERM		857C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP CHAN		857C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - ANALOG SW		77C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - DIGITAL SW		377C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (FIBER)		822C		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (FIBER)		845C		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (FO) CA.		85C		\$ 0.00		\$ 0.00		\$ 0.00	
CONNECTORS		57C		\$ 0.00		\$ 0.00		\$ 0.00	
MISC. COM EQP & PWR		57C		\$ 0.00		\$ 0.00		\$ 0.00	
POLE LINE		1C		\$ 0.00		\$ 0.00		\$ 0.00	
CONDUIT		4C		\$ 0.00		\$ 0.00		\$ 0.00	
DIRECT RESOURCES									
LAND		20C		\$ 0.00		\$ 0.00		\$ 0.00	
BUILDING		10C		\$ 0.00		\$ 0.00		\$ 0.00	
BLDG ENTRANCE CABLE		12C		\$ 0.00		\$ 0.00		\$ 2.40	
INTRABLDG CABLE		52C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (COPPER)		22C		\$ 0.00		\$ 2.26		\$ 2.49	
BURIED CABLE (COPPER)		45C		\$ 0.00		\$ 0.16		\$ 2.54	
UNDERGROUND (CU) CA.		5C		\$ 0.00		\$ 0.40		\$ 0.00	
CO EQPT - LOW CAP TERM		257C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP CHAN		257C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP TERM		857C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP CHAN		857C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - ANALOG SW		77C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - DIGITAL SW		377C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (FIBER)		822C		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (FIBER)		845C		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (FO) CA.		85C		\$ 0.00		\$ 0.00		\$ 0.00	
CONNECTORS		57C		\$ 0.00		\$ 0.00		\$ 0.00	
MISC. COM EQP & PWR		57C		\$ 0.00		\$ 0.00		\$ 0.00	
POLE LINE		1C		\$ 0.00		\$ 0.54		\$ 0.59	
CONDUIT		4C		\$ 0.00		\$ 0.04		\$ 0.00	
SPAN SUMMARY				\$ 0.00		\$ 0.00		\$ 3.50	
								\$ 6.62	
								\$ 2.40	
								\$ 11.52	
								\$ 11.52	

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A B C D E F G		C:\123R24\LCATR080\RESULTS1 OUTPUT - WORKSHEET D SHEET 7 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore	
		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX		LCAT Rel: 1.0.4		Issued: 7/31/95	
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		STUDY YR: 1996		TEST CASE: 1	
		STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		RUN DATE: 27-Jan-97		TIME: 11:02	
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 5608 FEET					
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	WEIGHTED		
2		SEG. NAME	PRIMARY	EXTENSION	INTERFACE	LOOP	TOTAL		
3		EQPT							
4		PLANT							
5		CODE							
6		ITEM DESCRIPTION							
7		<u>SHARED RESOURCES</u>							
8		LAND	20C				\$0	\$0	
9		BUILDING	10C				\$0	\$0	
10		BLDG ENTRANCE CABLE	12C				\$0	\$0	
11		INTRABLDG CABLE	52C				\$0	\$0	
12		AERIAL CABLE (COPPER)	22C				\$0	\$0	
13		BURIED CABLE (COPPER)	45C				\$0	\$0	
14		UNDERGROUND (CU) CA.	5C				\$0	\$0	
15		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
16		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
17		CO EQPT - HI CAP TERM	857C				\$0	\$0	
18		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
19		CO EQPT - ANALOG SW	77C				\$0	\$0	
20		CO EQPT - DIGITAL SW	377C				\$0	\$0	
21		AERIAL CABLE (FIBER)	822C				\$0	\$0	
22		BURIED CABLE (FIBER)	845C				\$0	\$0	
23		UNDERGROUND (FO) CA.	85C				\$0	\$0	
24		CONNECTORS	57C				\$0	\$0	
25		MISC. COM EQP & PWR	57C				\$0	\$0	
26		POLE LINE	1C				\$0	\$0	
27		CONDUIT	4C				\$0	\$0	
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND	20C				\$0	\$0	
31		BUILDING	10C				\$0	\$0	
32		BLDG ENTRANCE CABLE	12C				\$0	\$0	
33		INTRABLDG CABLE	52C				\$0	\$0	
34		AERIAL CABLE (COPPER)	22C				\$0	\$0	
35		BURIED CABLE (COPPER)	45C				\$0	\$0	
36		UNDERGROUND (CU) CA.	5C				\$0	\$0	
37		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
38		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
39		CO EQPT - HI CAP TERM	857C				\$0	\$0	
40		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
41		CO EQPT - ANALOG SW	77C				\$0	\$0	
42		CO EQPT - DIGITAL SW	377C				\$0	\$0	
43		AERIAL CABLE (FIBER)	822C				\$0	\$0	
44		BURIED CABLE (FIBER)	845C				\$0	\$0	
45		UNDERGROUND (FO) CA.	85C				\$0	\$0	
46		CONNECTORS	57C				\$0	\$0	
47		MISC. COM EQP & PWR	57C				\$0	\$0	
48		POLE LINE	1C				\$0	\$0	
49		CONDUIT	4C				\$0	\$0	
50									
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0	
52									
53									
54									
55									

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A B C D E F G		LOOP COST ANALYSIS TOOL				Bellcore	
C:\123R24\LCATR080\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: 27-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE				TIME: 11:02	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 5608 FEET					
Circuit Design Mix: 0.00001		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							
<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
<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
51	SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0

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COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		RUN DATE: 27-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 5608 FEET		TIME: 11:02			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					
PLANT NAME		FEEDER		DISTRIBUTION NETWORK			
SEG. NAME		PRIMARY	EXTENSION	SUB-	INTERFACE		
EQPT		TOTAL LOOP					
CODE		WEIGHTED TOTAL LOOP					
PLANT							
ITEM DESCRIPTION							
<u>SHARED RESOURCES</u>							
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		
<u>DIRECT RESOURCES</u>							
LAND		20C			\$0		
BUILDING		10C			\$0		
BLDG ENTRANCE CABLE		12C			\$0		
INTRABLDG CABLE		52C			\$0		
AERIAL CABLE (COPPER)		22C			\$0		
BURIED CABLE (COPPER)		45C			\$0		
UNDERGROUND (CU) CA.		5C			\$0		
CO EQPT - LOW CAP TERM		257C			\$0		
CO EQPT - LOW CAP CHAN		257C			\$0		
CO EQPT - HI CAP TERM		857C			\$0		
CO EQPT - HI CAP CHAN		857C			\$0		
CO EQPT - ANALOG SW		77C			\$0		
CO EQPT - DIGITAL SW		377C			\$0		
AERIAL CABLE (FIBER)		822C			\$0		
BURIED CABLE (FIBER)		845C			\$0		
UNDERGROUND (FO) CA.		85C			\$0		
CONNECTORS		57C			\$0		
MISC. COM EQP & PWR		57C			\$0		
POLE LINE		1C			\$0		
CONDUIT		4C			\$0		
SPAN SUMMARY		\$0	\$0	\$0	\$0		

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C:\123R24\LCATR080\RESULTS1			LOOP COST ANALYSIS TOOL					Bellcore (R)	
OUTPUT - WORKSHEET D			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 10 of 10								Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL			CIRCUIT DESIGN: MELDED		FOMUX		STUDY YR: 1996		
CITY / AREA: CINCINNATI			LOOP SPAN DIVISION: ALL LOOP		SPANS		TEST CASE: 1		
STATE / PROV: OHIO			SERVICE CLASS: BAND 3 - BUSINESS LINE				RUN DATE: 27-Jan-97		
JOB IDENT: CINCINNATI			TOTAL LOOP LENGTH: 5608 FEET				TIME: 11:02		
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		
SEG. NAME			PRIMARY		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		\$ 2.3950		
INTRABLDG CABLE 52C			\$ 0.00		\$ 0.00		\$ 0.0000		
AERIAL CABLE (COPPER) 22C			\$ 0.00		\$ 2.26		\$ 4.7500		
BURIED CABLE (COPPER) 45C			\$ 0.00		\$ 0.16		\$ 2.7000		
UNDERGROUND (CU) CA. 5C			\$ 0.00		\$ 0.40		\$ 0.4000		
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		\$ 0.54		\$ 1.1300		
CONDUIT 4C			\$ 0.00		\$ 0.14		\$ 0.1400		
SPAN SUMMARY			\$ 0.00		\$ 3.50		\$ 11.52		
							\$ 11.52		

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C:\123R24\LCATR080\RESULTS1
OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

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

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR/DS	FLAT RATE	#BANDS	0	20-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	13:55
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

....your report is ready for viewing

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C:\123R24\LCAT\CALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

27-Jan-97

Issued: 8/31/95

10:39

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 0 - 18

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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Your run is finished

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

LOOP COST ANALYSIS TOOL

Bellcore (R)

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 10:57

BASIC INVESTMENT WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)
SERVICE CLASS: BAND 3 - BUSINESS LINE

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 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*fctr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fctr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
1095.0	AERIAL	0.580000	635.1	0.041800	26.55		0.00	0.00	
CONSIDERS:	BURIED	0.420000	459.9	0.065800	31.54		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.000000	0.0	0.000000	0.00		0.00	0.00	
CABLE									
Check =		1.000000	1095.0						
OUTSIDE PLANT LOADINGS		(NOTE 4)							
DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:							
AERIAL CA. =	0.0000	AERIAL CA. =		0.0000					
BURIED CA. =	0.0000	BURIED CA. =		0.0000					
UNDERGRND =	0.0000	UNDERGRND =		0.0000					
OTHER INVESTMENT									
POLE LINE FACTOR (PLF) =		inv / unit lgth: 0.0000		inv rtn fctr: 0.2530					
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =		\$ 19.19							
UG CONDUIT FACTOR (UCF) =		0.0000		0.5165					
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =		\$ 0.00							
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										Belcore [®]	
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 3 - BUSINESS LINE										RUN DATE: 27-Jan-97	
										TIME: 10:57	
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 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					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	26.55	1		\$ 27	0.3500		\$ 76	
BURIED CABLE (COPPER)	45C	V	DIRECT	31.64	1		\$ 32	0.3500		\$ 90	
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00				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	19.19	1			1.0000		\$ 19	
CONDUIT	4C	F	DIRECT	0.00				1.0000			
\$ 185										\$ 0	\$ 185
\$ 185											\$ 185
distriiv											

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

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
PROSPECTIVE AND ANNUAL COSTS 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-D.C. NON-COLL.)										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSINESS LINE										RUN DATE: 27-Jan-97	
										TIME: 10:57	
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			0.2232						
BUILDING	10C	1.0000			0.2847						
BLDG ENTRANCE CABLE	12C	1.0000			0.3832						
INTRABLDG CABLE	52C	1.0000			0.3832						
AERIAL CABLE (COPPER)	22C	1.0000		\$ 76	0.3943		\$ 29.91		\$ 2.49		
BURIED CABLE (COPPER)	45C	1.0000		\$ 90	0.3377		\$ 30.53		\$ 2.54		
UNDERGROUND (CU) CA.	5C	1.0000			0.3573						
CO EQPT - P GAIN TERM	257C	1.0000			0.3791						
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791						
CO EQPT - FO MUX TERM	857C	1.0000			0.3791						
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791						
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3368						
AERIAL CABLE (FIBER)	822C	1.0000			0.2893						
BURIED CABLE (FIBER)	845C	1.0000			0.2634						
UNDERGROUND (FO) CA.	85C	1.0000			0.2599						
CONNECTORS	57C	1.0000			0.3791						
MISC. COM EQP & PWR	57C	1.0000			0.3791						
POLE LINE	1C	1.0000		\$ 19	0.3717		\$ 7.13		\$ 0.59		
CONDUIT	4C	1.0000			0.2431						
TOTALS			dstshrnrv dstdirnv		-----		-----		-----		
			\$ 0 \$ 185		\$ 67.57 \$ 0.00		\$ 5.62 \$ 5.62				
			distinvsv		distam		distmrc				

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

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

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C:\123R24\LCATC\LCIDIST
DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Belcore®

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 3 - BUSINESS LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 10:57

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PRGB. 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 length from invest
0.0000 2530
\$ 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

LOOP COST ANALYSIS TOOL										Bellcore [®]		
ACCOUNT INVESTMENT WORKSHEET										LCAT		
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4		
CITY / AREA: CINCINNATI										STUDY YR: 1996		
STATE / PROV: OHIO										TEST CASE: 1		
FACILITY TYPE: COPPER CABLE										RUN DATE: 27-Jan-97		
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 10:57		
SERVICE CLASS: BAND 3 - 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				
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO										\$ 0	\$ 75	
												\$ 75
												\$ 75
												\$ 75
												\$ 75
												\$ 75
												\$ 75
												\$ 75
												\$ 75
												\$ 75
bctivvy												

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:\123P24\LCATCALCDIST 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: 27-Jan-97 TIME: 10:57	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 3 - 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			0.2232					
BUILDING	10C	1.0000			0.2847					
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3832		\$ 28.74		\$ 2.40	
INTRABLDG CABLE	52C	1.0000			0.3832					
AERIAL CABLE (COPPER)	22C	1.0000			0.3943					
BURIED CABLE (COPPER)	45C	1.0000			0.3377					
UNDERGROUND (CU) CA.	5C	1.0000			0.3573					
CO EQPT - P GAIN TERM	257C	1.0000			0.3791					
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791					
CO EQPT - FO MUX TERM	857C	1.0000			0.3791					
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791					
CO EQPT - ANALOG SW	77C	1.0000			0.0000					
CO EQPT - DIGITAL SW	377C	1.0000			0.3368					
AERIAL CABLE (FIBER)	822C	1.0000			0.2893					
BURIED CABLE (FIBER)	845C	1.0000			0.2634					
UNDERGROUND (FO) CA.	85C	1.0000			0.2599					
CONNECTORS	57C	1.0000			0.3791					
MISC. COM EQP & PWR	57C	1.0000			0.3791					
POLE LINE	1C	1.0000			0.3717					
CONDUIT	4C	1.0000			0.2431					
TOTALS			bctshrinv bctdirinv		bctshrinv bctdirinv		bctshrinv bctdirinv		bctshrinv bctdirinv	
			\$ 0 \$ 75		\$ 0.00 \$ 28.74		\$ 0.00 \$ 2.40			
			bctinvsv		bctinvsv		bctinvsv		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.

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CA123R24\LCAT\CALC.DIST
DIST. PLANT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS LINE

Belcore®
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 10:57

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

POLE LINE FACTOR (PLF) = $\frac{\text{from length}}{\text{from invest.}}$ = $\frac{0.0000}{0.2530}$

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

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FOOTNOTES

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

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

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LOOP COST ANALYSIS TOOL										Bellicore [®]	
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: 27-Jan-97	
CITY / AREA: CINCINNATI										TIME: 10:57	
STATE / PROV: OH											
FACILITY TYPE: COPPER CABLE											
CIRCUIT SEGMENT: SERVICE ACCESS											
SERVICE CLASS: BAND 3 - BUSINESS LINE											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F SHARED					1.0000				
BUILDING	10C	F SHARED					1.0000				
BLDG ENTRANCE CABLE	12C	V DIRECT	75.00	1		\$ 75	1.0000		\$ 75		
INTRABLDG CABLE	52C	V DIRECT	0.00				0.3500				
AERIAL CABLE (COPPER)	22C	V DIRECT	0.00				0.3500				
BURIED CABLE (COPPER)	45C	V DIRECT	0.00				0.3500				
UNDERGROUND (CU) CA.	5C	V DIRECT					0.3500				
CO EQPT - P GAIN TERM	257C	F DIRECT					0.7000				
CO EQPT - P GAIN CHAN	257C	V DIRECT					0.7000				
CO EQPT - FO MUX TERM	857C	F DIRECT					1.0000				
CO EQPT - FO MUX CHAN	857C	F DIRECT					1.0000				
CO EQPT - ANALOG SW	77C	V DIRECT					1.0000				
CO EQPT - DIGITAL SW	377C	V DIRECT					1.0000				
AERIAL CABLE (FIBER)	822C	F DIRECT					0.0000				
BURIED CABLE (FIBER)	845C	F DIRECT					0.0000				
UNDERGROUND (FO) CA.	85C	F DIRECT					0.0000				
CONNECTORS	57C	V DIRECT					1.0000				
MISC. COM EQP & PWR	57C	V SHARED					1.0000				
POLE LINE	1C	F DIRECT	0.00				1.0000				
CONDUIT	4C	F DIRECT					1.0000				
										\$ 0	\$ 75
										\$ 0	\$ 75
										bctmrvy	

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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.

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C:\123R24\LCATCALC\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: 27-Jan-97
TIME: 10:57

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - 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			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3832		\$ 28.74		\$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT - P GAIN TERM	257C	1.0000			0.3791				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT - FO MUX TERM	857C	1.0000			0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 28.74	\$ 0.00	\$ 2.40
				\$ 75			\$ 28.74		\$ 2.40

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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\LCATCALC\DIST		LOOP COST ANALYSIS TOOL				Bellcore [®]	
DIST PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release : 1.0.4	
Sheet 1 of 3						Issue Date : 8/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE : COPPER CABLE				STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC, NON-COLLECT)				TEST CASE: 1	
STATE / PROV : OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE				RUN DATE: 27-Jan-97	
						TIME: 10:57	
		logix-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
		BAND	MIX	AVG.		(See Note)	
		ACCT			1.0000	TOTAL	
		CODE	LGTH.		5608	AVG. WEIGHTED	
		SEG. LGTH.			1095.0	INVESTMENT	
						1095	
SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
29	LAND	20C					\$ 0.00
30	BUILDING	10C					\$ 0.00
31	BLDG ENTRANCE CABLE	12C					\$ 0.00
32	INTRABLDG CABLE	52C					\$ 0.00
33	AERIAL CABLE (COPPER)	22C		\$ 2.49			\$ 2.49
34	BURIED CABLE (COPPER)	45C		\$ 2.54			\$ 2.54
35	UNDERGROUND (CU) CA.	5C					\$ 0.00
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		\$ 0.59			\$ 0.59
48	CONDUIT	4C					\$ 0.00
SPAN SUMMARY							
51			\$ 5.62	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
52	AVG. WTD. SPAN SUMMARY		\$ 5.62	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: $\{sum(INV_{ACCT} \cdot BAND + MIX \cdot BAND)\}$							
							\$ 5.62

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C:\123R24\LCAT\CALC\DIST			LOOP COST ANALYSIS TOOL		Bellcore [®]	
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			STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE	
			Release: 1.0.4		STUDY YR: 1996	
			TEST CASE:		1	
			RUN DATE: 27-Jan-97		10:57	
			TIME:			
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						
ALL						
PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.				
SHARED RESOURCES						
LAND	20C					
BUILDING	10C					
BLDG ENTRANCE CABLE	12C					
INTRABLDG CABLE	52C					
AERIAL CABLE (COPPER)	22C					
BURIED CABLE (COPPER)	45C					
UNDERGROUND (CU) CA.	5C					
CO EQPT - P GAIN TERM	257C					
CO EQPT - P GAIN CHAN	257C					
CO EQPT - FO MUX TERM	857C					
CO EQPT - FO MUX CHAN	857C					
CO EQPT - ANALOG SW	77C					
CO EQPT - DIGITAL SW	377C					
AERIAL CABLE (FIBER)	822C					
BURIED CABLE (FIBER)	845C					
UNDERGROUND (FO) CA.	85C					
CONNECTORS	57C					
MISC. COM EQP & PWR	57C					
POLE LINE	1C					
CONDUIT	4C					
DIRECT RESOURCES						
LAND	20C					
BUILDING	10C					
BLDG ENTRANCE CABLE	12C	2.40				
INTRABLDG CABLE	52C					
AERIAL CABLE (COPPER)	22C					
BURIED CABLE (COPPER)	45C					
UNDERGROUND (CU) CA.	5C					
CO EQPT - P GAIN TERM	257C					
CO EQPT - P GAIN CHAN	257C					
CO EQPT - FO MUX TERM	857C					
CO EQPT - FO MUX CHAN	857C					
CO EQPT - ANALOG SW	77C					
CO EQPT - DIGITAL SW	377C					
AERIAL CABLE (FIBER)	822C					
BURIED CABLE (FIBER)	845C					
UNDERGROUND (FO) CA.	85C					
CONNECTORS	57C					
MISC. COM EQP & PWR	57C					
POLE LINE	1C					
CONDUIT	4C					
SPAN TOTAL		2.40				

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RUN - SUB PRI

LAST UPDATE

27-Jan-97

10:40

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 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 0 - 180

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0.0
SVC LEVEL	NARBAND	#CKTS	0.0
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 SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSINESS LINE										RUN DATE: 27-Jan-97	
										TIME: 10:59	
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*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]		
4513	AERIAL	0.810000	3655.53	0.011300	41.31		0.00	0.00			
MELDED GAUGE/S/ COPPER CABLE	BURIED	0.040000	180.52	0.018900	3.41		0.00	0.00			
	UNDERGRND	0.150000	676.95	0.012000	8.12		0.00	0.00			
CHECK =		1.000000									
ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS INVESTMENT PER CIRCUIT TERMINATION (CO CONN) CONNECTORS (coi77c) = \$ 0.00 POLE LINE FACTOR = $\frac{\text{inv / unit lgth}}{0.000000} \times \text{inv rtrn fctr} = 0.253000$ POLE LINE INVESTMENT = \$ 17.42 (UTIL AERIAL INVEST x PL) UG CONDUIT FACTOR = $\frac{0.000000}{0.000000} \times 0.516500$ CONDUIT INVESTMENT = \$ 6.99 (UTIL UNDGRND INVEST x UC) MISC. COMMON EQPT. & POWER FACTOR = 0.112700 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 = 0.10160 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											
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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LOOP COST ANALYSIS TOOL										Bellcore®	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSINESS LINE										RUN DATE: 27-Jan-97	
										TIME: 10:56	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
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	41.31	1		\$ 41	0.6000		\$ 69	
13 BURIED CABLE (COPPER)	45C	V	DIRECT	3.41	1		\$ 3	0.6000		\$ 6	
14 UNDERGROUND (CU) CA.	5C	V	DIRECT	8.12	1		\$ 8	0.6000		\$ 14	
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	17.42	1		\$ 17	1.0000		\$ 17	
27 CONDUIT	4C	F	DIRECT	6.99	1		\$ 7	1.0000		\$ 7	
TOTALS										\$ 112	\$ 112
										\$ 112	\$ 112

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PROVIDED TO PUCO

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

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C:\123R24\LCAT\CALC\CUTECH			LOOP COST ANALYSIS TOOL					Bellcore [®]	
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: WELDED GAUGE/S/ SUB-PRIMARY					TEST CASE: 1	
STATE/PROV: OHIO			SERVICE CLASS: BAND 3 - BUSINESS LINE					RUN DATE: 27-Jan-97	
								TIME: 10:58	
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			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 69	0.3943		\$ 27.15		\$ 2.26
BURIED CABLE (COPPER)	45C	1.0000		\$ 6	0.3377		\$ 1.92		\$ 0.16
UNDERGROUND (CU) CA.	5C	1.0000		\$ 14	0.3573		\$ 4.84		\$ 0.40
CO EQPT - LOW CAP TERM	257C	1.0000			0.3791				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3791				
CO EQPT - HI CAP TERM	857C	1.0000			0.3791				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		\$ 17	0.3717		\$ 6.42		\$ 0.54
CONDUIT	4C	1.0000		\$ 7	0.2431		\$ 1.70		\$ 0.14
SUBTOTALS			\$ 0	\$ 112		\$ 0.00	\$ 42.08	\$ 0.00	\$ 3.50
TOTALS				\$ 112			\$ 42.08		\$ 3.50
			culpmvsv			culpmrc			

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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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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ	SUB_PRI - REPORT 14 Sheet 1 of 1	COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO	FACILITY SEGMENT: SUB-PRIMARY PLANT	SERVICE CLASS: BAND 3 - BUSINESS LINE	LCAT Release: 1.0.4 Issue Date: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 27-Jan-97 TIME: 10:58	1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	(SEE NOTE) TOTAL AVG. WEIGHTED
0						logic-14a	
1							
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C:\123R24\LCAT\CALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE

27-Jan-97

10:41

LOOP COST ANALYSIS TOOL

Bellcore (TM)

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 0 - 18000 FEET INTRA

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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CDLC PLANT - WORKSHEET 1

Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET

FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

FACILITY TYPE : COPPER DIG LOOP CXXR

CIRCUIT DESIGN : T1 C

SERVICE CLASS : BAND 3 - BUSINESS LINE

Belcore

LCAT Release : 1.0.4

Issue Date : 8/31/85

STUDY YR : 1996

TEST CASE : 1

DATE : 27-Jan-97

TIME : 10:59 AM

COMPANY: CINCINNATI BELL TEL

CITY / AREA : OHIO

STATE : OHIO

STATE : OHIO

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL LINE FILL	1996 UNIT LOOP INVESTMENT INCL UTILIZATION	
				COST EQUATION		SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES
LAND	20C	F	SHARED	1.47	0			1.0000		
BUILDING	10C	F	SHARED	34.76	0			1.0000		
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000		
INTRABLDG CABLE	52C	---	---		0			0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00	0			0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00	0			0.6000		
CO EQPT - P GAIN TERM	257C	F	DIRECT	79.13	0			0.7000		
CO EQPT - P GAIN CHAN	257C	V	DIRECT	172.79	0			0.7000		
CO EQPT - FO MUX TERM	857C	F	DIRECT		0			1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT		0			1.0000		
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00	0			1.0000		
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00	0			1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT		0			0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT		0			0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT		0			0.3300		
CONNECTORS	57C	V	DIRECT		0			1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	11.23	0			1.0000		
POLE LINE	1C	F	DIRECT	0.00	0			1.0000		
CONDUIT	4C	F	DIRECT	0.00	0			1.0000		
TOTALS										

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: CO EQPT - CKT PG TERM= PG EQ INV TERM + MC&P INV

CO EQPT - CKT PG CHAN= PG EQ INV CHAN + ORB INV

CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

C:\123R24\LCATC\ALC\UPRGN		LOOP COST ANALYSIS TOOL							Bellcore [®]	
CDLC PLANT - WORKSHEET 1		PROSPECTIVE AND ANNUAL COSTS WORKSHEET							LCAT Release: 1.0.4	
Sheet 3 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET							Issue Date: 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 CXX							TEST CASE: 1	
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: T C							DATE: 27-Jan-97	
		SERVICE CLASS: HAND 3 - BUSINESS LINE							TIME: 10:59 AM	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]	
LAND	20C	1.0000			0.2232					
BUILDING	10C	1.0000			0.2847					
BLDG ENTRANCE CABLE	12C	1.0000			0.3832					
INTRABLDG CABLE	52C	1.0000			0.3832					
AERIAL CABLE (COPPER)	22C	1.0000			0.3943					
BURIED CABLE (COPPER)	45C	1.0000			0.3377					
UNDERGROUND (CU) CA.	5C	1.0000			0.3573					
CO EQPT - P GAIN TERM	257C	1.0000			0.3791					
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791					
CO EQPT - FO MUX TERM	857C	1.0000			0.3791					
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791					
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000					
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3368					
AERIAL CABLE (FIBER)	822C	1.0000			0.2880					
BURIED CABLE (FIBER)	845C	1.0000			0.2634					
UNDERGROUND (FO) CA.	85C	1.0000			0.2590					
CONNECTORS	57C	1.0000			0.3791					
MISC. COM EQP & PWR	57C	1.0000			0.3791					
POLE LINE	1C	1.0000			0.3717					
CONDUIT	4C	1.0000			0.2431					
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.
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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				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 1 COPPER DIG LOOP CXR				STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE				TEST CASE: 1	
						DATE: 27-Jan-97	
						TIME: 11:00 AM	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
PLANT ITEM		BAND	MIX	AVG	CODE	LGTH	SEG LGTH
		ogic-14a	0	1.0000	5608	0	0
							(SEE NOTE) TOTAL AVG. WEIGHTED INVESTMENT
							0
SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
27							
28	DIRECT RESOURCES						
29	LAND	20C					\$ 0.00
30	BUILDING	10C					\$ 0.00
31	BLDG ENTRANCE CABLE	12C					\$ 0.00
32	INTRABLDG CABLE	52C					\$ 0.00
33	AERIAL CABLE (COPPER)	22C					\$ 0.00
34	BURIED CABLE (COPPER)	45C					\$ 0.00
35	UNDERGROUND (CU) CA.	5C					\$ 0.00
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					\$ 0.00
48	CONDUIT	4C					\$ 0.00
49							
50	SPAN SUMMARY	0.00	0.00	0.00	0.00	0.00	0.00
51	AVG. WTD. SPAN SUMMARY	0.00	0.00	0.00	0.00	0.00	0.00
52	NOTE: [sum(INV _{ACCT} ^{WAND} * MIX ^{WAND})]						

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C:\123R24\LCAT\CALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

27-Jan-97

Issued: 7/31/95

10:42

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 0 - 18000 F

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

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

your run is finished

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 11:01	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from star_tbl: 4513 cur_sfdlength 0 cur_prlgth											
from bw_mix: f = 1979.04 wtdeqymn											
CABLE COMPONENTS (NOTE 5)											
SEGMENT LENGTH N FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA. PLANT EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT MLD CABLE DESIGN INVEST. PER PAIR FOOT WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] WEIGHTED TERMINAL INVESTMENT [UI*DTCT] AIR DRYER PER PAIR [E*factr] DROP WIRE ADJUSTMENT PER PAIR [E*factr] DROP WIRE INVESTMENT PER PAIR [UI*DTCT]											
fo3pri_segign [A] [B] [C=A*B/f] [D] [E=C*D] [UI*DTCT] [E*factr] [E*factr] [UI*DTCT]											
CO TO HUB LINK											
ON											
FIBER OPTIC											
FACILITIES UNDERGRND											
1.000000											
EQUIPMENT INVESTMENT LOADINGS											
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST./LOAD FACTORS TO AERIAL PFI ADJUST./LOAD FACTORS TO BURIED PFI ADJUST./LOAD FACTORS TO UGD PFI DLC EQUIPMENT INVEST. (NOTE 2) INT DLC EQUIP INVEST. (CU COMUX) = INT DLC EQUIP INVEST. (CU RTMUX) = UNIV DLC EQUIP INVEST. (CU COMUX) = UNIV DLC EQUIP INVEST. (CU RTMUX) = FIBER MUX EQUIP. INV. (FO COMUX) = FIBER MUX EQUIP. INV. (FO RTMUX) = OTHER INVESTMENT POLE LINE FACTOR (PLf) = POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = UNDERGROUND CONDUIT FACTOR (PLf) = CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) = LOOP TOPOLOGY AVERAGE NUMBER OF HUBS ADDITIONAL LENGTH OF RING OSP REQUIRED MIX OF CENT. OFC. ANALOG INTFC MIX OF CENT. OFC. DIGITAL INTFC MIX OF UNIVERSAL DLC INTFC MIX OF CENT. OFC. INTEGRATED DLC INTFC											
INVST. PER CHAN. FOR CA TERM (CA CONN) = MISC. COM. EQPT. & POWER FACTOR (DLCrem) = MISC. COM. EQPT. & POWER FACTOR (MUXrem) = MISC. COM. EQPT. & POWER FACTOR (OTHrem) = MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = MCE&P INVST. (CA CONN x MCEPfc.o.) = MCE&P INVST. (CA CONN x MCEPfc.o.) = LAND FACTOR FOR MUX EQP (LANDfrem) = LAND FACTOR FOR MUX EQP (LANDfrem) = LAND FACTOR FOR OTH (LANDfrem) = LAND FACTOR FOR DLC EQP (LANDfc.o.) = LAND FACTOR FOR MUX EQP (LANDfc.o.) = LAND FACTOR FOR OTH (LANDfc.o.) = LAND INVST. (DLC+MUX+MCEP) x LANDfc.o. = LAND INVST. (MUX+DLC+MCEP) x LANDfrem = BUILDING FACTOR FOR DLC EQP (BLDGfrem) = BUILDING FACTOR FOR MUX EQP (BLDGfrem) = BUILDING FACTOR FOR OTH (BLDGfrem) = BUILDING FACTOR FOR DLC EQP (BLDGfc.o.) = BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = BUILDING FACTOR FOR OTH (BLDGfc.o.) = BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o.) = BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem) =											
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.											

LOOP COST ANALYSIS TOOL										Belcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 11:01	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT	CIRCUIT	1996 UNIT		ADMIN. UTIL. LINE FILL	1996 UNIT		
				INVESTMENTS BY ACCOUNT		LOOP INVESTMENT EXCL. UTILIZATION	LOOP INVESTMENT INCL. UTILIZATION				
				COST EQUATION	QUANTITY	SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES	
	cmstart							utilstart			
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]	
LAND	20C	F	SHARED	1.74	0			1.0000			
BUILDING	10C	F	SHARED	40.90	0			1.0000			
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000			
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
CO EQPT - LOW CAP TERM	257C	F	DIRECT	63.71	0			0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	172.79	0			0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	0			1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	0			1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00	0			1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00	0			1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT	0.00	0			0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00	0			0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.00	0			0.3300			
CONNECTORS	57C	V	DIRECT	0.00	0			1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	13.71	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS										\$0	\$0
FOOTNOTES										\$0	\$0
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]											

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LOOP COST ANALYSIS TOOL										Bellcore	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 11:01	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT LOOP INVESTMENT BY ACCOUNT 1996 UNIT ANNUAL COSTS BY ACCOUNT 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI	SHARED RESOURCES fo3sxcaset	DIRECT RESOURCES fo3dxcaset	ANNUAL COST FACTOR acfstart	SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sxcaset	DIRECT RESOURCES fo3dxcaset		
[PREVIOUS SHEET SUMMARY]		[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]		
LAND	20C	1.0000			0.2232						
BUILDING	10C	1.0000			0.2847						
BLDG ENTRANCE CABLE	12C	1.0000			0.3832						
INTRABLDG CABLE	52C	1.0000			0.3832						
AERIAL CABLE (COPPER)	22C	1.0000			0.3943						
BURIED CABLE (COPPER)	45C	1.0000			0.3377						
UNDERGROUND (CU) CA.	5C	1.0000			0.3573						
CO EQPT - LOW CAP TERM	257C	1.0000			0.3791						
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3791						
CO EQPT - HI CAP TERM	857C	1.0000			0.3791						
CO EQPT - HI CAP CHAN	857C	1.0000			0.3791						
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3368						
AERIAL CABLE (FIBER)	822C	1.0000			0.2893						
BURIED CABLE (FIBER)	845C	1.0000			0.2634						
UNDERGROUND (FO) CA.	85C	1.0000			0.2599						
CONNECTORS	57C	1.0000			0.3791						
MISC. COM EQP & PWR	57C	1.0000			0.3791						
POLE LINE	1C	1.0000			0.3717						
CONDUIT	4C	1.0000			0.2431						
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: 10-Dec-96

TIME: 10:41

COMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

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

FOOTNOTES

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

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HELP SCREEN**Belcore** (M)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

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

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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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: 10-Dec-96

TIME: 10:41

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS					
	NARROWBAND		WIDEBAND		BROADBAND	
	CATEGORY	SENS. RESOURCE	CATEGORY	SENS. RESOURCE	CATEGORY	SENS. RESOURCE
PLANT CODE	INDEX	ASSIGNMENT	INDEX	ASSIGNMENT	INDEX	ASSIGNMENT
LAND	20C	F SHARED	F SHARED	F SHARED	F SHARED	F SHARED
BUILDING	10C	F SHARED	F SHARED	F SHARED	F SHARED	F SHARED
BLDG ENTRANCE CABLE						
INTRABLDG CABLE						
AERIAL CABLE (COPPER) ①	22C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
BURIED CABLE (COPPER) ①	45C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
UNDERGROUND (CU) CA. ①	5C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
CO EQPT - LOW CAP TERM	257C	F DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
CO EQPT - LOW CAP CHAN	257C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
CO EQPT - HI CAP TERM	857C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CO EQPT - HI CAP CHAN	857C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CO EQPT - ANALOG SW	77C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
CO EQPT - DIGITAL SW	377C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
AERIAL CABLE (FIBER)	822C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
BURIED CABLE (FIBER)	845C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
UNDERGROUND (FO) CA.	85C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CONNECTORS	57C	V DIRECT	V DIRECT	V DIRECT	V DIRECT	V DIRECT
MISC. COM EQP & PWR	57C	V SHARED	V SHARED	V SHARED	V SHARED	V SHARED
POLE LINE	1C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CONDUIT	4C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT

FOOTNOTES

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

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TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN**Belcore**^(R)

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

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CA123R24\LCATR0801CR\TEA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 27-Jan-97	
LCAT Ref.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				10-Dec-96 10:43 AM	
STUDY NAME		1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 0 - 18000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 3 - 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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CA123R24\LCATR0801CRITERIA		HELP SCREEN	Belcore [®]
INPUT - STUDY SETUP			LCAT Rel. 1.0.4
Sheet 1 of 2			ISSUED: 3/31/95
THIS DISPLAY	This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.		
STUDY NAME	Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.		
COMMENTS	Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, , <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA.		
STUDY BASIS	Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.		
FACILITY TYPE	Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.		
CELL DENSITY	Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.		
***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****			
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****			
PRESS < Enter > KEY TO RETURN TO THE MAIN MENU			

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CA123R24\LCAT080\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 3 - BUSINESS LINE		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-95 TIME: 10:43 AM					
SELECTED QUESTIONS									
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ?		VALID RESPONSE SET N or A S or P N, W or B 2 or 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td 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>	NEW	SWITCHED	NARBAND	2	
NEW									
SWITCHED									
NARBAND									
2									
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?		0 → 100 0 → 100 0 → 100 e.g., 12000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">18000</td></tr> </table> Feet	100	0	18000		
100									
0									
18000									
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.		F or D 1,2,3,4 0 → 5 I, C or A T or M 0 → 999	<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;">0</td></tr> <tr><td style="text-align: center;">1000</td></tr> <tr><td style="text-align: center;">TOT INSR</td></tr> <tr><td style="text-align: center;">RATES PLAN</td></tr> </table>	FLAT RATE	0	1000	TOT INSR	RATES PLAN
FLAT RATE									
0									
1000									
TOT INSR									
RATES PLAN									

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CA:23R24\LCATR080\CRITERIA

HELP SCREEN

Bellcore[®]

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR080\DESIGN	LOOP COST ANALYSIS TOOL	Belcore
INPUT - LOOP_DESIGN Sheet 1 / 1	CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR	LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.	INVESTMENT YEAR: 1996	STUDY YR: 1996
CITY / AREA: CINCINNATI	LOOP STUDY YEAR: 1996	TEST CASE: 1
STATE / PROV: OHIO	SERVICE CLASS: BAND 3 - BUSINESS LINE	LAST UPDATE: 10-Dec-96
		TIME: 10:44

CIRCUIT DESIGN**Study Parameters**

Study Basis: NETWORK STUDY

Service Level: NARBAND

Loop Topology: STAR

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

(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES:

Proportion of Fiber Circuits

WITHOUT Fiber Hubs

0.0000

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech.

0.0000

Proportion of links on CDLC / MAR

0.0000

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES:

Proportion of Remote terminals

colocated at Customer Premises

0.0000

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

Weighting of Design #1

0.0000

Weighting of Design #2

0.0000

Weighting of Design #3

1.0000

Weighting of Design #4

NA 0.0000

Weighting of Design #5

NA 0.0000

Weighting of Design #6

NA 0.0000

1.0000 ChkSum

FOR COPPER DLC DESIGNS:

Weighting of Design #1

1.0000

Weighting of Design #2

NA 0.0000

1.0000 ChkSum

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

C:\123R24\LCATR080\DESIGN

HELP SCREEN

Bellcore

INPUT - LOOP_DESIGN

LCAT Rel :1.0.4

Sheet 1 of 1

Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

WARNING

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

**SERVICE
SPECIFIC**

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

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C:\123R24\LCATR080\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore³	
TABLE - SPAN_INV SHEET 1/4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.04	
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/95	
CITY/AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996	
STATE/PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 1	
		SERVICE CLASS: BAND 3 - BUSINESS LINE		LAST UPDATE: 10-Dec-96	
				TIME: 10:47	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
CABLE TYPE MIX (DISTRIBUTION TO CODE) :					
Proportion of FIBER cable installations that are					
AERIAL		0.8100		0.0000 factors	
BURIED		0.0000		0.0000 factors	
UNDGRD		0.1900		0.0000 factors	
INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :					
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) N [Required with INDIVIDUAL Mode]					
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable,					
Installed as					
AERIAL		\$ 0.1930		per fiber pair Foot	
BURIED		\$ 0.0000		per fiber pair Foot	
UNDGRD		\$ 0.2229		per fiber pair Foot	
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable,					
Installed as					
AERIAL		\$ 0.1930		\$ 0.0000 per fiber pair Foot	
BURIED		\$ 0.0000		\$ 0.0000 per fiber pair Foot	
UNDGRD		\$ 0.2229		\$ 0.0000 per fiber pair Foot	
		(Fiber Hub to Remote Terminal)		(Remote Terminal to Service Point)	

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C:\123\24\LCATR080\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN INV SHEET : A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR				LCAT Rpt: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - BUSINESS LINE				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:47	
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\LCATR080.FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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LCAT Rel: 1.0.4
Issued: 07/31/85

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

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C:\123R24\LCATR080\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 3 - BUSINESS LINE			LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:47																																	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																						
Cable Gauge Mix : <u>GAUGE</u>		<u>FEEDER</u>	<u>DISTRIBUTION</u>	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :																																		
The Proportion of Copper Cable that is		<u>SEGMENT</u>	<u>SEGMENT</u>	Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y/N) <u>N</u> If not, Update																																		
Cable Type Mix, By Gauge : The Proportion of Copper Cable that is		<u>SEGMENT</u>	<u>SEGMENT</u>	Average Unit Investment for Copper Cable Installed as																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">GAUGE</th> <th style="text-align: left;">AERIAL</th> <th style="text-align: left;">BURIED</th> <th style="text-align: left;">UNDGRND</th> </tr> </thead> <tbody> <tr> <td>26 GA.</td> <td>0.1500</td> <td>0.1500</td> <td>0.0000</td> </tr> <tr> <td>24 GA.</td> <td>0.8500</td> <td>0.8500</td> <td>0.0000</td> </tr> <tr> <td>22 GA.</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> </tr> </tbody> </table>		GAUGE	AERIAL	BURIED	UNDGRND	26 GA.	0.1500	0.1500	0.0000	24 GA.	0.8500	0.8500	0.0000	22 GA.	0.0000	0.0000	0.0000	<u>SEGMENT</u>	<u>SEGMENT</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">GAUGE</th> <th style="text-align: left;">AERIAL</th> <th style="text-align: left;">BURIED</th> <th style="text-align: left;">UNDGRND</th> </tr> </thead> <tbody> <tr> <td>26 GA.</td> <td>0.0113</td> <td>0.0189</td> <td>0.0120</td> </tr> <tr> <td>24 GA.</td> <td>0.0113</td> <td>0.0189</td> <td>0.0120</td> </tr> <tr> <td>22 GA.</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> </tr> </tbody> </table>			GAUGE	AERIAL	BURIED	UNDGRND	26 GA.	0.0113	0.0189	0.0120	24 GA.	0.0113	0.0189	0.0120	22 GA.	0.0000	0.0000	0.0000
GAUGE	AERIAL	BURIED	UNDGRND																																			
26 GA.	0.1500	0.1500	0.0000																																			
24 GA.	0.8500	0.8500	0.0000																																			
22 GA.	0.0000	0.0000	0.0000																																			
GAUGE	AERIAL	BURIED	UNDGRND																																			
26 GA.	0.0113	0.0189	0.0120																																			
24 GA.	0.0113	0.0189	0.0120																																			
22 GA.	0.0000	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 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 / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		LAST UPDATE: 10-Dec-96 TIME: 10:47

COPPER CABLE INVESTMENT REFERENCE TABLE

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

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

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TABLE - SPAN_INV
SHEET 2 / 4

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LCAT Rel: 1.0.4
Issued: 07/31/95

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LCAT

INPUT SCREEN

Page -2-

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C:\123R24\LCATR080\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FORLCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1998
TEST CASE: 1998
DATE: 1
LAST UPDATE: 10-Dec-96
TIME: 10:47COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 3 - BUSINESS LINE

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pft...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PRI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.580000	\$ 0.041800	0.1500	0.087000	\$ 0.006270
BURIED @ 26 GA.	0.420000	\$ 0.068800	0.1500	0.063000	\$ 0.010320
UNDGRND @ 26 GA.	0.000000	\$ 0.000000	0.1500	0.000000	\$ 0.000000
AERIAL @ 24 GA.	0.580000	\$ 0.041800	0.8500	0.493000	\$ 0.035530
BURIED @ 24 GA.	0.420000	\$ 0.068800	0.8500	0.357000	\$ 0.058480
UNDGRND @ 24 GA.	0.000000	\$ 0.000000	0.8500	0.000000	\$ 0.000000
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

--- TABLE 2 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR:	[F=sum(D*Type)]	
AERIAL	0.580000	
BURIED	0.420000	
UNDERGRND	0.000000	

Check = 1.000000

FOOTNOTES

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
[G=sum(E*Type)]	
\$ 0.041800	
\$ 0.068800	
\$ 0.000000	

Check = 1.00

--- TABLE 5 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
[H=F*Type / sum(F*Type)]	
\$ 0.580000	
\$ 0.420000	
-	

Check = 1.000000

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C:\123R24\LCATR080\FACILITY.WK1		LOOP COST ANALYSIS TOOL				Belcore ^(TM)
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR				LCAT Ver: 1.0.1
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE				Issue Date: 07/31/95
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT				STUDY YR: 1996
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE				TEST CASE: 1996
						DATE: 1
						LAST UPDATE: 10-Dec-96
						TIME: 10:47

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pfi..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.	0.810000	\$ 0.011300	0.1500	0.121500	\$ 0.001695
BURIED @ 26 GA.	0.040000	\$ 0.018900	0.1500	0.006000	\$ 0.002835
UNDGRND @ 26 GA.	0.150000	\$ 0.012000	0.1500	0.022500	\$ 0.001800
AERIAL @ 24 GA.	0.810000	\$ 0.011300	0.8500	0.688500	\$ 0.009605
BURIED @ 24 GA.	0.040000	\$ 0.018900	0.8500	0.034000	\$ 0.016065
UNDGRND @ 24 GA.	0.150000	\$ 0.012000	0.8500	0.127500	\$ 0.010200
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
CHARACTERISTICS FOR:	[F=sum(D*TYPE)]		[G=sum(E*TYPE)]		[H=F*TYPE / sum(F*TYPE)]	
AERIAL	0.810000		\$ 0.011300		\$ 0.952941	
BURIED	0.040000		\$ 0.018900		\$ 0.047059	
UNDERGRND	0.150000		\$ 0.012000			

Check =	1.000000
Check =	1.000000

FOOTNOTES

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CA123R24\LCATR080\FACILITY		LOOP COST ANALYSIS TOOL		Belcore
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA		LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996	STUDY YR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996	LAST UPDATE: 10-Dec-96	TIME: 10:47
STATE/PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS				
FOR DLC SYSTEMS ON COPPER LOOPS				
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA. or 26 GA. :			24
Pair Gain Factor :	(When investment Utilities or Band Width Mix are NOT Used)			
	The Average Number Of Voice Grade Circuit Equivalents Per System :			96
	The Average Number Of Transmission Pairs Plus Protection Per System :			10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :			2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] :			0.1250
NOTE: ① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.				

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C:\123R24\LCATR080\FACILITY
TABLE - SPAN INV
SHEET 3 / 4

HELP SCREEN

Bellcore[®]
LCAT Rel : 07/31/95
Issued : 07/31/95

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

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

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

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C:\123R24\LCATR080\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore (R)
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT R# : 1.0.4
COMPANY: CINCINNATI BELL TEL.		FOR		Issue Date: 07/31/95
CITY / AREA: OHIO		FACILITY TYPE: COPPER CABLE for DLC		STUDY YR : 1996
STATE/PROV: CINCINNATI		DESIGN TYPE: FEEDER SEGMENT		TEST CASE : 1996
		SERVICE CLASS : BAND 3 - BUSINESS LINE		DATE : 1
				LAST UPDATE : 10-Dec-96
				TIME : 10:47
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT		
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST PER FOOT	
	(A)	(B)	(C=B/A)	
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000	
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000	
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000	
TABLE 4 DEVELOPMENT FOR:		COPPER CABLE UNIT INVESTMENT		
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	FOR DLC Gauge : 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT
DESCRIPTION	2 * (PF1cgg) / (D)	(RPTR qgg) / (E=C)	(ADLCPF1cgg) / (F=D+E)	(ADLCPF1c) / (G)
AERIAL @ 26 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600
BURIED @ 26 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800
UNDGRND @ 26 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000
AERIAL @ 24 GA.	\$ 0.022800	\$ 0.000000	\$ 0.022800	
BURIED @ 24 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	
UNDGRND @ 24 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	
UNDGRND @ 22 GA.	\$ 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\LCATRC80\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)								
TABLE - SPAN_NV SHEET 4/4		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR		LCAT Rel: 1.0.4 Issued: 07/31/95								
COM COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996								
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1								
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		LAST UPDATE: 10-Dec-96 TIME: 10:47								
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS												
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :										
The Average Number of Terminals in the Service Access Segment of a Loop -												
Proportion of Loops that use.....	<table border="1" style="display: inline-table;"> <tr><td>Aerial</td><td>0.00</td></tr> <tr><td>Buried</td><td>0.00</td></tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="display: inline-table;"> <tr><td>Aerial Termination</td><td>0</td></tr> <tr><td>Buried Termination</td><td>0</td></tr> </table>	Aerial Termination	0	Buried Termination	0	
Aerial	0.00											
Buried	0.00											
Aerial Termination	0											
Buried Termination	0											
The Average Drop Wire & Building Entrance Cable Installation -												
Proportion of Loops that use..	<table border="1" style="display: inline-table;"> <tr><td>Aerial Wire Drops</td><td>0.0000</td></tr> <tr><td>Buried Wire Drops</td><td>0.0000</td></tr> <tr><td>Bldg Entrance Cable</td><td>1.0000</td></tr> <tr><td>Aerial Coax/Wire Drops</td><td>0.0000</td></tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest. for DW Investment? (Y/N)	N	
Aerial Wire Drops	0.0000											
Buried Wire Drops	0.0000											
Bldg Entrance Cable	1.0000											
Aerial Coax/Wire Drops	0.0000											
		Per Unit Installation.....	<table border="1" style="display: inline-table;"> <tr><td>Aerial/Wire Drops</td><td>\$ 0.00</td></tr> <tr><td>Buried Wire Drops</td><td>\$ 0.00</td></tr> <tr><td>Bldg Entrance Cable</td><td>\$ 75.00</td></tr> <tr><td>Aerial Coax/Wire Drops</td><td>\$ 0.00</td></tr> </table>	Aerial/Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00	
Aerial/Wire Drops	\$ 0.00											
Buried Wire Drops	\$ 0.00											
Bldg Entrance Cable	\$ 75.00											
Aerial Coax/Wire Drops	\$ 0.00											
The Average Intrabuilding Cable Installation -												
Proportion of Installations with Intrabuilding Cable	0.0000	Per Instn for a Intrabuilding Network Cable Pair	\$ 0.00									

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ALCATR080\FACILITY
SPAN_INV
4

HELP SCREEN

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

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

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

bec
coaxinv

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

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

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C:\123R24\LCATR080\FACTORS

LOOP COST ANALYSIS TOOL**Bellcore®**TABLE - FACTORS
SHEET 1 / 1INVESTMENT RELATED FACTOR TABLES
FOR

LCAT Rel: 1.0.4

Issued: 3/31/95

ANNUALIZATION FACTORS

INVESTMENT YEAR: 1996

STUDY YEAR: 1996

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 20-Jan-97

TIME: 12:52

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

SERVICE CLASS: BAND 3 - BUSINESS LINE

plant list

LAND

BUILDING

BLDG ENTRANCE CABLE

INTRABLDG CABLE

AERIAL CABLE (COPPER)

BURIED CABLE (COPPER)

UNDERGROUND (CU) CA.

CO EQPT - LOW CAP TERM

CO EQPT - LOW CAP CHAN

CO EQPT - HI CAP TERM

CO EQPT - HI CAP CHAN

CO EQPT - ANALOG SW

CO EQPT - DIGITAL SW

AERIAL CABLE (FIBER)

BURIED CABLE (FIBER)

UNDERGROUND (FO) CA.

CONNECTORS

MISC. COM EQP & PWR

POLE LINE

CONDUIT

PRICE
INDEXANNUAL
COST

1.0000	0.2232
1.0000	0.2847
1.0000	0.3832
1.0000	0.3832
1.0000	0.3943
1.0000	0.3377
1.0000	0.3573
1.0000	0.3791
1.0000	0.3791
1.0000	0.3791
1.0000	0.3791
1.0000	0.0000
1.0000	0.3368
1.0000	0.2893
1.0000	0.2634
1.0000	0.2599
1.0000	0.3791
1.0000	0.3791
1.0000	0.3717
1.0000	0.2431

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C:\123R24\LCATR080\INVEST		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE				LAST UPDATE: 09-Jan-97 15:39	
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT :							
For each cable pair associated with twisted pair copper cable				\$ 0.00			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
For each line repeater for one copper digroup (not svc lev)			\$ 0.00				
For an Office Repeater Bay for a T1 Line			\$ 0.00				
For a Universal DLC Equipment Arrangement			\$ 0.00	\$ 87.51	\$ 12.14	\$ 85.28	\$ 51.57
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 85.28	\$ 51.57
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 19.62	\$ 2.35	\$ 18.49	\$ 2.35	
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
3. For a Fiber HUB and Fiber Remote Terminal Arrangement					\$ 0.00	\$ 0.00	
4. For Fiber Ring Hub Arrangements (Extensions)					\$ 0.00	\$ 0.00	
CEV HOUSING per CIRCUIT by SERVICE LEVEL :							
For CEV's used as fiber hubs for FO Multiplexer equipment							\$ 0.00
For CEV's used as remote terminals for CDLC equipment							\$ 0.00
[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service equiv.]							

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C:\123R24\LCATR080\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

Bellcore^(TM)

LCAT Rel : 1.0.4

Issued : 07/31/95

LCAT Commands Description

This Command will allow the User -

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

Line Items Description

This Equipment Item Represents -

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

See Circuit Designs :

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

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

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****
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C:\123R24\LCATR080\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 3 - BUSINESS LINE		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:51
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		
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		
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 Hat	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 *****

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR080\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]																																																															
TABLE = ADDNL_NY Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - BUSINESS LINE		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:31																																																															
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> <tr> <td style="text-align: center;">use <u>DEFAULT</u></td> <td style="text-align: center;">①</td> </tr> <tr> <td style="text-align: center;">for: CENT. OFC.</td> <td style="text-align: center;">② REMOTE SITE</td> </tr> </table> 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		use <u>DEFAULT</u>	①	for: CENT. OFC.	② REMOTE SITE	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
Copper Cable Pole Investment Factor	0.2530	0.2530																																																																	
Copper Cable Pole Unit Investment																																																																			
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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																																																																			
use <u>DEFAULT</u>	①																																																																		
for: CENT. OFC.	② REMOTE SITE																																																																		
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 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

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR080 SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]																				
INPUT - PLANT_CHAR. Sheet 1 / 5 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - BUSINESS LINE		LCAT Rel: 1.0.4 Issued: 07/31/85 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-86 TIME: 10:54																				
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY																								
LOOP TOPOLOGY Loop FEEDER Network Configuration is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration is (S)tar or (B)us SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>TOTAL LOOP</td> <td>5608.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>1095.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>4213.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td> </td> </tr> </tbody> </table>		ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR			TOTAL LOOP	5608.0	DISTRIBUTION	1095.0	SUB-PRIMARY	300.0	PRIMARY	4213.0	PRIMARY-EXTENSION	
ACTION SEGMENT																								
PRIMARY	STAR																							
PRIMARY	NA																							
DISTRIBUTION	STAR																							
TOTAL LOOP	5608.0																							
DISTRIBUTION	1095.0																							
SUB-PRIMARY	300.0																							
PRIMARY	4213.0																							
PRIMARY-EXTENSION																								
LOOP LENGTH AT EACH COST BAND BAND 1 BAND 2 BAND 3 BAND 4 BAND 5			DISTRIBUTION OF COST BANDS IN THE NETWORK BAND 1 BAND 2 BAND 3 BAND 4 BAND 5																					
LAST 5608.0			LAST 1.0000 1.0000 Hint																					

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C:\123R24\LCATR080\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 3 - BUSINESS LINE		LAST UPDATE: 10-Dec-96	
				TIME: 10:54	
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY					
LOOP LENGTH ① 5608 FEET					
DROP DISTRIBUTION ② FEEDER ③					
1095 FEET 4513 FEET					
SUB-PRIMARY ④ PRIMARY ⑤					
FIBER DISTRIBUTION EXTENSION ⑥ PRIMARY ⑦					
ONI REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) FIBER HUB					
REMOTE NODE (LOOP TRANSFER)					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE END OFFICE					

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C:\123R24\LCATR080\SPAN		LOOP COST ANALYSIS TOOL		Belcore TM
INPUT - PLANT_CHAR. Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT Rel : 1.0.4 Issued : 07/31/95
AVERAGE NETWORK STUDY - This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1. INDIVIDUAL CIRCUIT STUDY - This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4. DATA SAMPLE NETWORK STUDY - This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot. BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth 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\LCATR080\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - FLAT_RATE		HELP SCREEN		LCAT Rev: 1.0.4 Issued: 07/31/95	
Sheet 2 of 2					
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 [8] 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 calls 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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C:\123R24\LCATR080\SPAN			LOOP COST ANALYSIS TOOL				Bellcore	
INPUT - PLANT_CHAR Sheet 2a / 5			LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: 0 CITY/AREA: 0 STATE/PROV: 0			FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - BUSINESS LINE				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:54	
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\LCATR080\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)			
PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE: 1			
STATE: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE				LAST UPDATE: 10-Dec-96			
						TIME: 10:54			
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]	[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.		LOOP FACILITY INPUT			LCAT Rel: 1.0.4						
Sheet 3a / 5		COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER 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 3 - BUSINESS			LAST UPDATE: 10-Dec-96						
					TIME: 10:54						
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A									
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT									
CABLE SHEATH SIZES	CAPACITY pr	26 GA.			24 GA.			22 GA.			
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	
40 COPPER CABLE	20 pr										
50 COPPER CABLE	25 pr										
80 COPPER CABLE	40 pr										
100 COPPER CABLE	50 pr										
140 COPPER CABLE	70 pr										
200 COPPER CABLE	100 pr										
400 COPPER CABLE	200 pr										
600 COPPER CABLE	300 pr										
800 COPPER CABLE	400 pr										
1200 COPPER CABLE	600 pr										
1800 COPPER CABLE	900 pr										
2400 COPPER CABLE	1200 pr										
3000 COPPER CABLE	1500 pr										
3600 COPPER CABLE	1800 pr										
4200 COPPER CABLE	2100 pr										
4800 COPPER CABLE	2400 pr										
5400 COPPER CABLE	2700 pr										
6000 COPPER CABLE	3000 pr										
7200 COPPER CABLE	3600 pr										
8400 COPPER CABLE	4200 pr										
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 fdrucpr
TOTALS				0.0			0.0			0.0	0.0 fdrucpr

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C:\123R24 LCATR080\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT C-AR - WORKSHEET 3B Sheet 3b . 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY CINCINNATI BELL TEL. CITY / AREA CINCINNATI STATE OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 10-Dec-96 TIME : 10:54			
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET B						SERVICE CLASS: BAND 3 - BUSINESS			
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES		CAPACITY	25 GA.			24 GA.			22 GA.		
	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BURIED CABLE SUBTOTAL											
UNDGRD CABLE SUBTOTAL											

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INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR			LCAT Rel : 1.0.4 Issued : 07/31/95					
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - BUSINESS			STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-96 TIME: 10:54					
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY IDK	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 4B
Sheet 4b / 5

LOOP COST ANALYSIS TOOL

Bellcore

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER
FORLCAT Rel : 1.0.4
Issued : 07/31/95COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATIINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 10-Dec-96
TIME: 10:54

STATE: OHIO

SERVICE CLASS: BAND 3 - BUSINESS

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL										Bellcore (P)	
C:\123R24\LCATR080\SPAN				LOOP FACILITY INPUT				LCAT Rel : 1.0.4			
INPUT - PLANT_CHAR.				DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX				Issued : 07/31/95			
Sheet 5 / 5				FOR				STUDY YR : 1996			
COMPANY: CINCINNATI BELL TEL				INVESTMENT YEAR : 1996				TEST CASE : 1			
CITY / AREA: CINCINNATI				LOOP STUDY YEAR : 1996				LAST UPDATE : 10-Dec-96			
STATE/PROV: OHIO				SERVICE CLASS : BAND 3 - BUSINESS LINE				TIME : 10:54			
FIBER BANDWIDTH											
TRANSMISSION FLOW IS : ☒ UNIDIRECTIONAL											
☐ BIDIRECTIONAL											
LEVEL OF SERVICE : NARBAND											
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL	PROTECTION	WEIGHTED EQUIVALENT CHANNELS	
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	MULTIPLE [SLM]	n : 1 [E]	PER FO PR [F]	
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0				
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0				
FEEDER -- PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04	
FEEDER -- EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04	

FOOTNOTES:

- Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.
- 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: 10-Dec-95

TIME: 10:54

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)						
SELECT	MODE	HIERARCHY	BNDWDTH	DS1MULT	DS3MULT	VEGE
0						
1		DS1	1.5 Mbps	1	0.04	24 BIDIR.2WCU CA
2	MODE3	DS1	1.5 Mbps	1	0.04	24 UNDIR.FIBER
3		VIT.5	1.5 Mbps	1	0.04	24 UNDIR.FIBER
4		VI2	2 Mbps	1	0	UNDIR.FIBER
5		E1	2 Mbps	1	0.06	30 BIDIR.2WCU CA
6	MODE1	DS1C	3.2 Mbps	NA		48 BIDIR.2WCU CA
7	MODE2	DS1C	3.2 Mbps	2	0.07	48 BIDIR.2WCU CA
8		VI3	3.2 Mbps	2	0.07	56 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	0	72 BIDIR.2WCU CA
12		VI6	6.3 Mbps	4	0.14	84 UNDIR.FIBER
13		E2	8 Mbps	4	0.25	120 BIDIR.2WCU CA
14		E3	34 Mbps	16	1	480
15	X	DS3	45 Mbps	28	1	672 BIDIR.2WCU CA
16		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		US4NA	139 Mbps		3	2016 UNDIR.FIBER
22		E4	140 Mbps		3	1920 UNDIR.FIBER
23		14M	139 Mbps		6	4032 BIDIR.COAX
24		P140	139 Mbps		6	4032 BIDIR.COAX
25	X	OC3	155 Mbps		3	2016 UNDIR.FIBER
26	X		180 Mbps		4	2688 UNDIR.FIBER
27			417 Mbps		9	6048 UNDIR.FIBER
28		OC9	465 Mbps		9	6048 UNDIR.FIBER
29		OC12	560 Mbps		12	7680 UNDIR.FIBER
30			565 Mbps		12	8064 UNDIR.FIBER
31			1.2 Gbps		24	16128 UNDIR.FIBER
32			1.7 Gbps		36	24192 UNDIR.FIBER
33		OC24	1.8 Gbps		24	24192 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

LCAT Ref: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 10-Dec-96

TIME: 10:54

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - BUSINESS I
WORKSHEET F

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

ERROR MESSAG 0

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

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LOOP COST ANALYSIS TOOL										Bellcore (R)																																																																																																																																																																																																																																																																																																																																									
CA123R24\LCATR0801SPAN PLANT CRAFT - WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO WORKSHEET SA LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 10-Dec-95 TIME: 10:54																																																																																																																																																																																																																																																																																																																																																			
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<table border="1" style="width: 100%; border-collapse: collapse; font-family: monospace; font-size: 0.8em;"> <thead> <tr> <th colspan="10" style="text-align: left;">Sub Feeder Allocation Table</th> <th style="text-align: left;">section alloc</th> </tr> <tr> <th>cur lplgth</th> <th>5608</th> <th colspan="8"></th> </tr> <tr> <td colspan="11"> NO COLOCATED RT AND CP where COLOCATED RT AND CP where NO COLOCATED RT AND CP where COLOCATED RT AND CP where </td> </tr> <tr> <td>cur lplgth</td> <td>5608</td> <td>NO COLOCATED RT AND CP where</td> <td>COLOCATED RT AND CP where</td> <td>NO COLOCATED RT AND CP where</td> <td>COLOCATED RT AND CP where</td> <td>NO COLOCATED RT AND CP where</td> <td>COLOCATED RT AND CP where</td> <td>NO COLOCATED RT AND CP where</td> <td>COLOCATED RT AND CP where</td> <td>NO COLOCATED RT AND CP where</td> </tr> <tr> <td>dlcdepl = 18000</td> <td>18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> <td>dlcdepl = 18000</td> </tr> <tr> <td>distspa = 1095</td> <td>1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> <td>distspa = 1095</td> </tr> <tr> <td>nom range</td> <td>cur - 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dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl	cur - dlcdepl		[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	5608	1000	0	0	0	0	0	0	0	0	0	5108	2000	905	905	0	905	0	905	0	905	0	4608	3000	1905	1905	0	1905	0	1905	0	1905	0	3608	4000	2905	2905	0	2905	0	2905	0	2905	0	2608	5000	3905	3905	0	3905	0	3905	0	3905	0	1608	6000	4905	4905	0	4905	0	4905	0	4905	0	608	7000	5905	5905	0	5905	0	5905	0	5905	0	-392	8000	6905	6905	0	6905	0	6905	0	6905	0	-1392	9000	7905	7905	0	7905	0	7905	0	7905	0	-2392	10000	8905	8905	0	8905	0	8905	0	8905	0	-3392	11000	9905	9905	0	9905	0	9905	0	9905	0	-4392	12000	10905	10905	0	10905	0	10905	0	10905	0	-5392	13000	11905	11905	0	11905	0	11905	0	11905	0	-6392	14000	12905	12905	0	12905	0	12905	0	12905	0	-7392	15000	13905	13905	0	13905	0	13905	0	13905	0	-8392	16000	14905	14905	0	14905	0	14905	0	14905	0	-9392	17000	15905	15905	0	15905	0	15905	0	15905	0	-10392	18000	16905	8452.5	8452.5	0	16905	9000	9000	0	18000	-12392	19000	17905	8952.5	8952.5	0	17905	9500	9500	0	19000	-13392	20000	18905	9452.5	9452.5	0	18905	10000	10000	0	20000	-14392	80000	78905	16905	62000	1000	77905	16905	63095	1000	79000	-74392
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4000	2905	2905	0	2905	0	2905	0	2905	0	2608																																																																																																																																																																																																																																																																																																																																									
5000	3905	3905	0	3905	0	3905	0	3905	0	1608																																																																																																																																																																																																																																																																																																																																									
6000	4905	4905	0	4905	0	4905	0	4905	0	608																																																																																																																																																																																																																																																																																																																																									
7000	5905	5905	0	5905	0	5905	0	5905	0	-392																																																																																																																																																																																																																																																																																																																																									
8000	6905	6905	0	6905	0	6905	0	6905	0	-1392																																																																																																																																																																																																																																																																																																																																									
9000	7905	7905	0	7905	0	7905	0	7905	0	-2392																																																																																																																																																																																																																																																																																																																																									
10000	8905	8905	0	8905	0	8905	0	8905	0	-3392																																																																																																																																																																																																																																																																																																																																									
11000	9905	9905	0	9905	0	9905	0	9905	0	-4392																																																																																																																																																																																																																																																																																																																																									
12000	10905	10905	0	10905	0	10905	0	10905	0	-5392																																																																																																																																																																																																																																																																																																																																									
13000	11905	11905	0	11905	0	11905	0	11905	0	-6392																																																																																																																																																																																																																																																																																																																																									
14000	12905	12905	0	12905	0	12905	0	12905	0	-7392																																																																																																																																																																																																																																																																																																																																									
15000	13905	13905	0	13905	0	13905	0	13905	0	-8392																																																																																																																																																																																																																																																																																																																																									
16000	14905	14905	0	14905	0	14905	0	14905	0	-9392																																																																																																																																																																																																																																																																																																																																									
17000	15905	15905	0	15905	0	15905	0	15905	0	-10392																																																																																																																																																																																																																																																																																																																																									
18000	16905	8452.5	8452.5	0	16905	9000	9000	0	18000	-12392																																																																																																																																																																																																																																																																																																																																									
19000	17905	8952.5	8952.5	0	17905	9500	9500	0	19000	-13392																																																																																																																																																																																																																																																																																																																																									
20000	18905	9452.5	9452.5	0	18905	10000	10000	0	20000	-14392																																																																																																																																																																																																																																																																																																																																									
80000	78905	16905	62000	1000	77905	16905	63095	1000	79000	-74392																																																																																																																																																																																																																																																																																																																																									
RULES ASSUMPTION - Table LOOKUP will select from the lower NOM RANGE of a CUR LPLGTH intermediate value #CUR_LPLGTH is <= DISTSPAN, then CUR_SEGLGTH ^{cur} Equals CUR LPLGTH - NOM RANGE difference > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH ^{cur} Equals CUR LPLGTH - NOM RANGE difference >= DLCDEPL, then CUR_SEGLGTH ^{cur} Equals CUR LPLGTH - NOM RANGE difference CUR_SEGLGTH - Calculation Assumptions The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA. Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.																																																																																																																																																																																																																																																																																																																																																			

**OHIO ONLY
3 Geographic Areas**

07/26/96
Revised

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
Band 1							
1	0-12,000	6,081	1,103	7,184	5,765	638	6,403
2	# Of Entries	107			255		
3	12,001-INFINITY	14,881	2,348	17,228	13,630	2,048	15,677
4	# Of Entries	53			38		
5	Ratio						
6	0-12,000	0.5744			0.7433		
7	12,001-INFINITY	0.4256			0.2567		
		1.0000			1.0000		
Band 2							
8	0-14,000	6,697	1,836	8,534	5,698	1,013	6,711
9	# Of Entries	69			90		
10	14,001-INFINITY	19,582	2,699	22,282	21,785	1,989	23,774
11	# Of Entries	70			74		
12	Ratio	0.4964			0.5488		
13	0-14,000	0.5036			0.4512		
14	14,001-INFINITY	1.0000			1.0000		
Band 3							
15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	56			30		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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A
B
C
D
E
F
GC:\123R24\LCATR081\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORT**Bellcore**LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:52COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - BUSINESS LINE
TOTAL LOOP LENGTH: 27360 FEETLoop Span Set Weighting: ☐ UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

PLANT NAME --- FEEDER --- DISTRIBUTION NETWORK
EQPT PRIMARY EXTENSION SUB- INTERFACETOTAL
LOOP

PLANT

CODE

ITEM DESCRIPTION

SEG. LGTH.

SHARED RESOURCES

8	LAND	20C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0324
9	BUILDING	10C	\$ 0.97	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.9703
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	\$ 0.43	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.4330
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	\$ 2.40	\$ 2.3950
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 7.92	\$ 0.00	\$ 8.0700
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 8.08	\$ 0.00	\$ 8.0900
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.0300
37	CO EQPT - LOW CAP TERM	257C	\$ 2.88	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.8753
38	CO EQPT - LOW CAP CHAN	257C	\$ 7.80	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.7982
39	CO EQPT - HI CAP TERM	857C	\$ 0.71	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.7099
40	CO EQPT - HI CAP CHAN	857C	\$ 1.20	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.2040
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.14	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.1361
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0331
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.03	\$ 0.00	\$ 0.04	\$ 1.89	\$ 0.00	\$ 1.9644
49	CONDUIT	4C	\$ 0.02	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.0262

SPAN SUMMARY

\$ 14.24

\$ 0.00

\$ 0.24

\$ 17.89

\$ 2.40

\$ 34.77

\$ 34.77

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CA123R24\LCATR081\RESULTS1
OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

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

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI				
BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	20-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	14:04
CST METH	UNINCR	INV LEVEL	ANNCOST	TIME

....your report is ready for viewing

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

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FOR RELEASE TO PUBLIC
PROVIDED TO PUCO

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C:\123R24\LCATR081\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 2 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 CDLC		STUDY YR: 199			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE:			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		DATE: 27-Jan-9			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 27360 FEET		TIME: 12:5			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	WEIGHTED	
	SEG. NAME	PRIMARY	EXTENSION	SUB-	LOOP	TOTAL	LOC
	EQPT						
	PLANT						
	CODE						
	ITEM DESCRIPTION						
	SHARED RESOURCES						
	LAND	20C			\$0	\$	
	BUILDING	10C			\$0	\$	
	BLDG ENTRANCE CABLE	12C			\$0	\$	
	INTRABLDG CABLE	52C			\$0	\$	
	AERIAL CABLE (COPPER)	22C			\$0	\$	
	BURIED CABLE (COPPER)	45C			\$0	\$	
	UNDERGROUND (CU) CA.	5C			\$0	\$	
	CO EQPT - LOW CAP TERM	257C			\$0	\$	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$	
	CO EQPT - HI CAP TERM	857C			\$0	\$	
	CO EQPT - HI CAP CHAN	857C			\$0	\$	
	CO EQPT - ANALOG SW	77C			\$0	\$	
	CO EQPT - DIGITAL SW	377C			\$0	\$	
	AERIAL CABLE (FIBER)	822C			\$0	\$	
	BURIED CABLE (FIBER)	845C			\$0	\$	
	UNDERGROUND (FO) CA.	85C			\$0	\$	
	CONNECTORS	57C			\$0	\$	
	MISC. COM EQP & PWR	57C			\$0	\$	
	POLE LINE	1C			\$0	\$	
	CONDUIT	4C			\$0	\$	
	DIRECT RESOURCES						
	LAND	20C			\$0	\$	
	BUILDING	10C			\$0	\$	
	BLDG ENTRANCE CABLE	12C			\$0	\$	
	INTRABLDG CABLE	52C			\$0	\$	
	AERIAL CABLE (COPPER)	22C			\$0	\$	
	BURIED CABLE (COPPER)	45C			\$0	\$	
	UNDERGROUND (CU) CA.	5C			\$0	\$	
	CO EQPT - P GAIN TERM	257C			\$0	\$	
	CO EQPT - P GAIN CHAN	257C			\$0	\$	
	CO EQPT - FO MUX TERM	857C			\$0	\$	
	CO EQPT - FO MUX CHAN	857C			\$0	\$	
	CO EQPT - ANALOG SW	77C			\$0	\$	
	CO EQPT - DIGITAL SW	377C			\$0	\$	
	AERIAL CABLE (FIBER)	822C			\$0	\$	
	BURIED CABLE (FIBER)	845C			\$0	\$	
	UNDERGROUND (FO) CA.	85C			\$0	\$	
	CONNECTORS	57C			\$0	\$	
	MISC. COM EQP & PWR	57C			\$0	\$	
	POLE LINE	1C			\$0	\$	
	CONDUIT	4C			\$0	\$	
	SPAN SUMMARY				\$0	\$	
	CIRCUIT DESIGN SUMMARY				\$0	\$	

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A B C D E F G	LOOP COST ANALYSIS TOOL									
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY									
	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 3 - BUSINESS LINE TOTAL LOOP LENGTH: 27360 FEET									
	LCAT Rel: 1.0.4 Issued: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 27-Jan-97 TIME: 12:52									
	Technology Type Mix: [0.0000] UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
	PLANT NAME --- FEEDER --- DISTRIBUTION NETWORK SEG. NAME PRIMARY EXTENSION SUB- INTERFACE EQPT CODE									
	PLANT ITEM DESCRIPTION SHARED RESOURCES									
	LAND	20C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0000	TECHNOLOGY WEIGHTED TOTAL LOOP
	BUILDING	10C	\$ 0.82	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.82	\$ 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	\$ 0.35	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.35	\$ 0.0000	
	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	DIRECT RESOURCES									
	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.40	\$ 2.40	\$ 0.0000	
	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	AERIAL CABLE (COPPER)	22C	\$ 2.96	\$ 0.00	\$ 0.15	\$ 7.92	\$ 0.00	\$ 11.03	\$ 0.0000	
	BURIED CABLE (COPPER)	45C	\$ 0.21	\$ 0.00	\$ 0.01	\$ 8.08	\$ 0.00	\$ 8.30	\$ 0.0000	
	UNDERGROUND (CU) CA.	5C	\$ 0.53	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.56	\$ 0.0000	
	CO EQPT - P GAIN TERM	257C	\$ 3.57	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.57	\$ 0.0000	
	CO EQPT - P GAIN CHAN	257C	\$ 7.80	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.80	\$ 0.0000	
	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
	POLE LINE	1C	\$ 0.70	\$ 0.00	\$ 0.04	\$ 1.89	\$ 0.00	\$ 2.63	\$ 0.0000	
	CONDUIT	4C	\$ 0.19	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.20	\$ 0.0000	
	SPAN SUMMARY		\$ 17.16	\$ 0.00	\$ 0.24	\$ 17.89	\$ 2.40	\$ 37.68	\$ 0.00	
	TECHNOLOGY DESIGN SUMMARY							\$ 37.68		

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C:\123R24\LCATR081\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 3 - BUSINESS LINE				RUN DATE: 27-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 27360 FEET				TIME: 12:52	
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		----- FEEDER ----- DISTRIBUTION NETWORK				TOTAL	
SEG. NAME		PRIMARY EXTENSION SUB- INTERFACE				LOOP	
EQPT						TOTAL	
CODE						LOOP	
PLANT							
ITEM DESCRIPTION							
7 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	
28							
29 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 - 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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A G T I T C C B	LOOP COST ANALYSIS TOOL										Belcore [®]	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
0	CA123R24\LCATR081\RESULTS1										Issued: 7/31/95	
1	OUTPUT - WORKSHEET D										STUDY YR: 1996	
2	SHEET 5 of 10										TEST CASE: 1	
3	COMPANY: CINCINNATI BELL TEL										RUN DATE: 27-Jan-97	
4	CITY / AREA: CINCINNATI										TIME: 12:52	
5	STATE / PROV: OHIO											
6	JOB IDENT: CINCINNATI											
7	CIRCUIT DESIGN: 2 FOMUX											
8	LOOP SPAN DIVISION: ALL LOOP SPANS											
9	SERVICE CLASS: BAND 3 - BUSINESS LINE											
10	TOTAL LOOP LENGTH: 27360 FEET											
11	Circuit Design Mix: 0.0000											
12	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
13	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK											
14	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE											
15	EQPT											
16	CODE											
17	PLANT											
18	ITEM DESCRIPTION											
19	<u>SHARED RESOURCES</u>											
20	LAND 20C										\$0	\$0
21	BUILDING 10C										\$0	\$0
22	BLDG ENTRANCE CABLE 12C										\$0	\$0
23	INTRABLDG CABLE 52C										\$0	\$0
24	AERIAL CABLE (COPPER) 22C										\$0	\$0
25	BURIED CABLE (COPPER) 45C										\$0	\$0
26	UNDERGROUND (CU) CA. 5C										\$0	\$0
27	CO EQPT - LOW CAP TERM 257C										\$0	\$0
28	CO EQPT - LOW CAP CHAN 257C										\$0	\$0
29	CO EQPT - HI CAP TERM 857C										\$0	\$0
30	CO EQPT - HI CAP CHAN 857C										\$0	\$0
31	CO EQPT - ANALOG SW 77C										\$0	\$0
32	CO EQPT - DIGITAL SW 377C										\$0	\$0
33	AERIAL CABLE (FIBER) 822C										\$0	\$0
34	BURIED CABLE (FIBER) 845C										\$0	\$0
35	UNDERGROUND (FO) CA. 85C										\$0	\$0
36	CONNECTORS 57C										\$0	\$0
37	MISC. COM EQP & PWR 57C										\$0	\$0
38	POLE LINE 1C										\$0	\$0
39	CONDUIT 4C										\$0	\$0
40	<u>DIRECT RESOURCES</u>											
41	LAND 20C										\$0	\$0
42	BUILDING 10C										\$0	\$0
43	BLDG ENTRANCE CABLE 12C										\$0	\$0
44	INTRABLDG CABLE 52C										\$0	\$0
45	AERIAL CABLE (COPPER) 22C										\$0	\$0
46	BURIED CABLE (COPPER) 45C										\$0	\$0
47	UNDERGROUND (CU) CA. 5C										\$0	\$0
48	CO EQPT - LOW CAP TERM 257C										\$0	\$0
49	CO EQPT - LOW CAP CHAN 257C										\$0	\$0
50	CO EQPT - HI CAP TERM 857C										\$0	\$0
51	CO EQPT - HI CAP CHAN 857C										\$0	\$0
52	CO EQPT - ANALOG SW 77C										\$0	\$0
53	CO EQPT - DIGITAL SW 377C										\$0	\$0
54	AERIAL CABLE (FIBER) 822C										\$0	\$0
55	BURIED CABLE (FIBER) 845C										\$0	\$0
56	UNDERGROUND (FO) CA. 85C										\$0	\$0
57	CONNECTORS 57C										\$0	\$0
58	MISC. COM EQP & PWR 57C										\$0	\$0
59	POLE LINE 1C										\$0	\$0
60	CONDUIT 4C										\$0	\$0
61	SPAN SUMMARY										\$0	\$0
62											\$0	\$0
63											\$0	\$0
64											\$0	\$0
65											\$0	\$0

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C:\123R24\LCATR081\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:			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE		RUN DATE: 27-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 27360 FEET		TIME: 12:52			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A D BAND STUDY				WEIGHTED TOTAL LOOP	
PLANT NAME	SEG. NAME	PRIMARY	FEEDER	EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE
EQPT	CODE						
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C					\$0
9	BUILDING	10C					\$0
10	BLDG ENTRANCE CABLE	12C					\$0
11	INTRABLDG CABLE	52C					\$0
12	AERIAL CABLE (COPPER)	22C					\$0
13	BURIED CABLE (COPPER)	45C					\$0
14	UNDERGROUND (CU) CA.	5C					\$0
15	CO EQPT - LOW CAP TERM	257C					\$0
16	CO EQPT - LOW CAP CHAN	257C					\$0
17	CO EQPT - HI CAP TERM	857C					\$0
18	CO EQPT - HI CAP CHAN	857C					\$0
19	CO EQPT - ANALOG SW	77C					\$0
20	CO EQPT - DIGITAL SW	377C					\$0
21	AERIAL CABLE (FIBER)	822C					\$0
22	BURIED CABLE (FIBER)	845C					\$0
23	UNDERGROUND (FO) CA.	85C					\$0
24	CONNECTORS	57C					\$0
25	MISC. COM EQP & PWR	57C					\$0
26	POLE LINE	1C					\$0
27	CONDUIT	4C					\$0
DIRECT RESOURCES							
30	LAND	20C					\$0
31	BUILDING	10C					\$0
32	BLDG ENTRANCE CABLE	12C					\$0
33	INTRABLDG CABLE	52C					\$0
34	AERIAL CABLE (COPPER)	22C					\$0
35	BURIED CABLE (COPPER)	45C					\$0
36	UNDERGROUND (CU) CA.	5C					\$0
37	CO EQPT - LOW CAP TERM	257C					\$0
38	CO EQPT - LOW CAP CHAN	257C					\$0
39	CO EQPT - HI CAP TERM	857C					\$0
40	CO EQPT - HI CAP CHAN	857C					\$0
41	CO EQPT - ANALOG SW	77C					\$0
42	CO EQPT - DIGITAL SW	377C					\$0
43	AERIAL CABLE (FIBER)	822C					\$0
44	BURIED CABLE (FIBER)	845C					\$0
45	UNDERGROUND (FO) CA.	85C					\$0
46	CONNECTORS	57C					\$0
47	MISC. COM EQP & PWR	57C					\$0
48	POLE LINE	1C					\$0
49	CONDUIT	4C					\$0
51	SPAN SUMMARY		\$0	\$0			\$0
52							\$0
53							\$0
54							\$0
55							\$0

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A B C D E F G		LOOP COST ANALYSIS TOOL						Bellcore [®]	
C:\123R24\LCATR081\RESULTS1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY						LCAT Rel: 1.0.4	
OUTPUT - WORKSHEET D								Issued: 7/31/95	
SHEET 8 of 10								STUDY YR: 1995	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 5 FOMUX						TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS						RUN DATE: 27-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE						TIME: 12:52	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 27360 FEET							
0		Circuit Design Mix: 0.0000						UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	WEIGHTED		TOTAL	
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP	
3		EQPT							
4		PLANT							
5		CODE							
6		ITEM DESCRIPTION							
7		<u>SHARED RESOURCES</u>							
8		LAND	20C				\$0	\$0	
9		BUILDING	10C				\$0	\$0	
10		BLDG ENTRANCE CABLE	12C				\$0	\$0	
11		INTRABLDG CABLE	52C				\$0	\$0	
12		AERIAL CABLE (COPPER)	22C				\$0	\$0	
13		BURIED CABLE (COPPER)	45C				\$0	\$0	
14		UNDERGROUND (CU) CA.	5C				\$0	\$0	
15		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
16		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
17		CO EQPT - HI CAP TERM	857C				\$0	\$0	
18		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
19		CO EQPT - ANALOG SW	77C				\$0	\$0	
20		CO EQPT - DIGITAL SW	377C				\$0	\$0	
21		AERIAL CABLE (FIBER)	822C				\$0	\$0	
22		BURIED CABLE (FIBER)	845C				\$0	\$0	
23		UNDERGROUND (FO) CA.	85C				\$0	\$0	
24		CONNECTORS	57C				\$0	\$0	
25		MISC. COM EQP & PWR	57C				\$0	\$0	
26		POLE LINE	1C				\$0	\$0	
27		CONDUIT	4C				\$0	\$0	
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND	20C				\$0	\$0	
31		BUILDING	10C				\$0	\$0	
32		BLDG ENTRANCE CABLE	12C				\$0	\$0	
33		INTRABLDG CABLE	52C				\$0	\$0	
34		AERIAL CABLE (COPPER)	22C				\$0	\$0	
35		BURIED CABLE (COPPER)	45C				\$0	\$0	
36		UNDERGROUND (CU) CA.	5C				\$0	\$0	
37		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
38		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
39		CO EQPT - HI CAP TERM	857C				\$0	\$0	
40		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
41		CO EQPT - ANALOG SW	77C				\$0	\$0	
42		CO EQPT - DIGITAL SW	377C				\$0	\$0	
43		AERIAL CABLE (FIBER)	822C				\$0	\$0	
44		BURIED CABLE (FIBER)	845C				\$0	\$0	
45		UNDERGROUND (FO) CA.	85C				\$0	\$0	
46		CONNECTORS	57C				\$0	\$0	
47		MISC. COM EQP & PWR	57C				\$0	\$0	
48		POLE LINE	1C				\$0	\$0	
49		CONDUIT	4C				\$0	\$0	
50									
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0	
52							\$0	\$0	
53							\$0	\$0	
54							\$0	\$0	
55							\$0	\$0	

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C:\123R24\LCATR081\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 9 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		STUDY YR: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		RUN DATE: 27-Jan-97		TIME: 12:52	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSINESS LINE					
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 27360 FEET					
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						
	<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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C:\123R24\LCATR081\RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT DESIGN: MELDED FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - BUSINESS LINE
TOTAL LOOP LENGTH: 27360 FEET

LCAT Rel: 1.0.4
Issued: 7/31/95

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:52

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 LOOP	TOTAL LOOP
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE
EQPT				
PLANT CODE				
ITEM DESCRIPTION				
SHARED RESOURCES				
LAND	20C	\$ 0.03	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.97	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.43	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES				
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.40
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.15	\$ 7.92
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.01	\$ 8.08
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.03	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 2.88	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 7.80	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.71	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 1.20	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.14	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.03	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.03	\$ 0.00	\$ 1.89
CONDUIT	4C	\$ 0.02	\$ 0.00	\$ 0.01
SPAN SUMMARY		\$ 14.24	\$ 0.00	\$ 0.24
				\$ 17.89
				\$ 2.40
				\$ 34.77
				\$ 34.7
				\$ 34.77

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C:\123R24\LCATC\ALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

27-Jan-97

Issued: 8/31/95

10:58

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 18001 F

CURRENT TEST PLAN : CURRENT JOB IDENT: CINCINNATI

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

CONFIDENTIAL
NOTICE MUST BE GIVEN
BEFORE TO RELEASE
PROVIDED TO YOU
...your run is finished

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Belcore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:47

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-CO, LCC)
COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
SERVICE CLASS: BAND 3 - BUSINESS LINE

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM	FROM	CABLE INVESTMENT PER PAIR FOOT	CABLE INVESTMENT PER PAIR	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	CABLE COMPONENTS		(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
		- TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT	- TABLE 4 - CABLE SUBSET BY TYPE OF PLANT				AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	
[A]		[B]	[C=A*B]	[D]	[E=C*D]		[F=E*fcfr]	[F=E*fcfr]	
3479.0	AERIAL	0.580000	2017.8	0.041800	84.34		0.00	0.00	
CONSIDERS: MELDED	BURIED	0.420000	1461.2	0.068800	100.53		0.00	0.00	
COPPER CABLE	UNDERGRND	0.000000	0.0	0.000000	0.00		0.00	0.00	
Check =		1.000000	3479.0						
OUTSIDE PLANT LOADINGS		(NOTE 4)							
DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:							
AERIAL CA. =	0.0000	AERIAL CA. =	0.0000						
BURIED CA. =	0.0000	BURIED CA. =	0.0000						
UNDERGRND =	0.0000	UNDERGRND =	0.0000						
OTHER INVESTMENT									
		inv / unit lgth:	inv rltm fcfr:						
POLE LINE FACTOR (PLF) =	0.0000	0.2530							
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =	\$ 60.97								
UG CONDUIT FACTOR (UCF) =	0.0000	0.5165							
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =	\$ 0.00								
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	
ACCOUNT INVESTMENT WORKSHEET			SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL				LCAT Release: 1.0.4				
FACILITY TYPE: COPPER CABLE			CIRCUIT SEGMENT: DISTRIBUTION PLAN: NON-DLC/NON-COLLOC				Issue Date: 8/31/95				
COMPANY: CINCINNATI BELL TEL.			SERVICE CLASS: BAND 3 - BUSINESS LINE				STUDY YEAR: 1996				
CITY/AREA: CINCINNATI							TEST CASE: 1				
STATE/PROV: OHIO							RUN DATE: 27-Jan-97				
							TIME: 12:47				
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VAR	RESOURCE ALLOCATION	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					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	84.34	1		\$ 84	0.3500		\$ 241	
BURIED CABLE (COPPER)	45C	V	DIRECT	100.53	1		\$ 101	0.3500		\$ 287	
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00				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	V	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	60.97	1		\$ 61	1.0000		\$ 61	
CONDUIT	4C	F	DIRECT	0.00				1.0000			

=====

\$ 0 \$ 589

\$ 589

distivity

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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.

LOOP COST ANALYSIS TOOL										Bellcore®	
PROSPECTIVE AND ANNUAL COSTS 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 3 - BUSINESS LINE										RUN DATE: 27-Jan-97	
										TIME: 12:47	
COMPANY: CINCINNATI BELL TEL.											
CITY / AREA: CINCINNATI											
STATE / PROV: OHIO											
PLANT ITEM	PLANT ACCT CODE	1996 UNIT TO	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT			
			1996 TP1 [L]	1996 SHARED RESOURCES [M=K*L]		1996 DIRECT RESOURCES [M'=K'*L]	1996 SHARED RESOURCES [P=M*N]	1996 DIRECT RESOURCES [P'=M'*N]	1996 SHARED RESOURCES [R=P/12]	1996 DIRECT RESOURCES [R'=P'/12]	
LAND	20C	1.0000			0.2232						
BUILDING	10C	1.0000			0.2847						
BLDG ENTRANCE CABLE	12C	1.0000			0.3832						
INTRABLDG CABLE	52C	1.0000			0.3832						
AERIAL CABLE (COPPER)	22C	1.0000			\$ 241		\$ 95.02		\$ 7.92		
BURIED CABLE (COPPER)	45C	1.0000			\$ 287		\$ 97.00		\$ 8.08		
UNDERGROUND (CU) CA.	5C	1.0000			0.3573						
CO EQPT - P GAIN TERM	257C	1.0000			0.3791						
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791						
CO EQPT - FO MUX TERM	857C	1.0000			0.3791						
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791						
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3368						
AERIAL CABLE (FIBER)	322C	1.0000			0.2893						
BURIED CABLE (FIBER)	845C	1.0000			0.2634						
UNDERGROUND (FO) CA.	85C	1.0000			0.2599						
CONNECTORS	57C	1.0000			0.3791						
MISC. COM EQP & PWR	57C	1.0000			0.3791						
POLE LINE	1C	1.0000			\$ 61		\$ 22.66		\$ 1.89		
CONDUIT	4C	1.0000			0.2431						
TOTALS											
			dstshrinv	dstdirinv		dstann	dstmrc				
			\$ 0	\$ 589		\$ 0.00	\$ 214.68	\$ 0.00	\$ 17.89		
				\$ 589			\$ 214.68		\$ 17.89		
			distinvsv			distann		distmrc			

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION. THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:47

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

POLE LINE FACTOR (PLF) = $\frac{\text{from length}}{\text{from invest.}}$ = $\frac{0.0000}{0.2530}$

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

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

RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL.

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

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

Bellcore[®]
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:47

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 3 - BUSINESS LINE

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
					SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F SHARED					1.0000		
BUILDING	10C	F SHARED					1.0000		
BLDG ENTRANCE CABLE	12C	V DIRECT	75.00	1		\$ 75	1.0000		\$ 75
INTRABLDG CABLE	52C	V DIRECT	0.00				0.3500		
AERIAL CABLE (COPPER)	22C	V DIRECT	0.00				0.3500		
BURIED CABLE (COPPER)	45C	V DIRECT	0.00				0.3500		
UNDERGROUND (CU) CA.	5C	V DIRECT					0.3500		
CO EQPT - P GAIN TERM	257C	F DIRECT					0.7000		
CO EQPT - P GAIN CHAN	257C	V DIRECT					0.7000		
CO EQPT - FO MUX TERM	857C	F DIRECT					1.0000		
CO EQPT - FO MUX CHAN	857C	F DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V DIRECT					1.0000		
CO EQPT - DIGITAL SW	377C	V DIRECT					1.0000		
AERIAL CABLE (FIBER)	822C	F DIRECT					0.0000		
BURIED CABLE (FIBER)	845C	F DIRECT					0.0000		
UNDERGROUND (FO) CA.	85C	F DIRECT					0.0000		
CONNECTORS	57C	V DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V SHARED					1.0000		
POLE LINE	1C	F DIRECT	0.00				1.0000		
CONDUIT	4C	F DIRECT					1.0000		
								\$ 0	\$ 75
									\$ 75

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 1 of 3

LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Belcore®

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:47

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

POLE LINE FACTOR (PLF) =

from length: 0.0000 from invest.: 0.2530

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

NOT FOR RELEASE TO PUBLIC
PROVIDED TO PUCO

FOOTNOTES

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

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

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DIST: 23R24/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: 27-Jan-97 TIME: 12:47	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 3 - 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]	
9 LAND	20C	1.0000			0.2232					
10 BUILDING	10C	1.0000			0.2847					
11 BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3832		\$ 28.74		\$ 2.40	
12 INTRABLDG CABLE	52C	1.0000			0.3832					
13 AERIAL CABLE (COPPER)	22C	1.0000			0.3943					
14 BURIED CABLE (COPPER)	45C	1.0000			0.3377					
15 UNDERGROUND (CU) CA.	5C	1.0000			0.3573					
16 CO EQPT - P GAIN TERM	257C	1.0000			0.3791					
17 CO EQPT - P GAIN CHAN	257C	1.0000			0.3791					
18 CO EQPT - FO MUX TERM	857C	1.0000			0.3791					
19 CO EQPT - FO MUX CHAN	857C	1.0000			0.3791					
20 CO EQPT - ANALOG SW	77C	1.0000			0.0000					
21 CO EQPT - DIGITAL SW	377C	1.0000			0.3368					
22 AERIAL CABLE (FIBER)	822C	1.0000			0.2893					
23 BURIED CABLE (FIBER)	845C	1.0000			0.2634					
24 UNDERGROUND (FO) CA.	85C	1.0000			0.2599					
25 CONNECTORS	57C	1.0000			0.3791					
26 MISC. COM EQP & PWR	57C	1.0000			0.3791					
27 POLE LINE	1C	1.0000			0.3717					
28 CONDUIT	4C	1.0000			0.2431					
TOTALS			bctshrinv bctshrinv		bctshrinv bctshrinv		bctshrinv bctshrinv		bctshrinv bctshrinv	
			\$ 0 \$ 75		\$ 0.00 \$ 28.74		\$ 0.00 \$ 2.40			
			bctshrinv		bctshrinv		bctshrinv		bctshrinv	

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\LCATCALCD ST				LOOP COST ANALYSIS TOOL				Bellicore [®]	
DIST PLNT - REPORT 14A				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3								Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL				FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
CITY / AREA: CINCINNATI				CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DIG/NON-COLLOC)				TEST CASE: 1	
STATE / PROV: OHIO				SERVICE CLASS: BAND 3 - BUSINESS LINE				RUN DATE: 27-Jan-97	
								TIME: 12:47	
logic-14a				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
BAND MIX				0				TOTAL	
AVG.				1.0000				AVG. WEIGHTED	
LGTH.				27360				INVESTMENT	
SEG. LGTH.				3479.0				3479	
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	\$ 7.92						\$ 7.92
34	BURIED CABLE (COPPER)	45C	\$ 8.08						\$ 8.08
35	UNDERGROUND (CU) CA.	5C							\$ 0.00
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	\$ 1.89						\$ 1.89
48	CONDUIT	4C							\$ 0.00
SPAN SUMMARY				\$ 17.89	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AVG. WTD. SPAN SUMMARY				\$ 17.89	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: {sum(INV _{ACCT} BAND * MIX BAND)}									\$ 17.89

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C:\123R24\LCATCALC.DIST

DIST PLNT - REPORT 14B

Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 27-Jan-97

TIME: 12:47

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

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS LINE

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.	ALL
SHARED RESOURCES			
LAND	20C		
BUILDING	10C		
BLDG ENTRANCE CABLE	12C		
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
DIRECT RESOURCES			
LAND	20C		
BUILDING	10C		
BLDG ENTRANCE CABLE	12C		2.40
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
SPAN TOTAL			\$ 2.40

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RUN - SUB PRI

LAST UPDATE

27-Jan-97

10:59

LOOP COST ANALYSIS TOOL

Bellcore^(r)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 18001 F

CURRENT TEST PLAN: CURRENT JOB IDENT. CINCINNATI

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

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C:\23R24\LCAT\CALC\OUTECH
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 3 - BUSINESS LINE

BellicoreTM
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 12:48

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 -- RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 -- MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
300	AERIAL	0.810000	243.00	0.011300	2.75		0.00	0.00	
MELDED GAUGE/S/ COPPER CABLE	BURIED	0.040000	12.00	0.018900	0.23		0.00	0.00	
	UNDERGRND	0.150000	45.00	0.012000	0.54		0.00	0.00	
CHECK =		1.000000							

23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

24 INVESTMENT PER CIRCUIT TERMINATION		MISC. COMMON EQPT. & POWER FACTOR =	0.112700
25 (CO CONN) CONNECTORS (coi77c) =	\$ 0.00	MCE&P INVESTMENT (CO CONN x FACTOR) =	\$ 0.00
26	inv / unit lenth: inv rltm fctr:		
27 POLE LINE FACTOR =	0.000000 0.253000	LAND FACTOR =	0.00580
28 POLE LINE INVESTMENT =	\$ 1.16	LAND NVST (CO CONN + MCE&P) x FACTOR =	\$ 0.00
29 (UTIL AERIAL INVEST x PL)		BUILDING FACTOR =	0.13160
30		BLDG NVST (CO CONN + MCE&P) x FACTOR =	\$ 0.00
31 UG CONDUIT FACTOR =	0.000000 0.516500	PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
32 CONDUIT INVESTMENT =	\$ 0.46	PERCENT OF CO CONN AT ANALOG SWITCHES	00.0000
33 (UTIL UNDGRND INVEST x UC)			

47 FOOTNOTES

48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.

49 NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISC or MISCB)

50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.

51 NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).

52

53

54

55

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C:\123R24\LCATCALC\CUTCH		LOOP COST ANALYSIS TOOL										Bellcore (P)	
SUB_PRJ - WORKSHEET		ACCOUNT INVESTMENT WORKSHEET										LCAT Release : 1.0.4	
Sheet 2 of 3		CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date : 7/31/95	
		FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
		CIRCUIT SEGMENT: MELDED GAUGE/S' SUB-PRIMARY										TEST CASE: 1	
		SERVICE CLASS: BAND 3 - BUSINESS LINE										RUN DATE: 27-Jan-97	
												TIME: 12:48	
	PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [I=H'/J]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [L=I*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	2.75	1	\$ 3	0.6000			\$ 5		
13	BURIED CABLE (COPPER)	45C	V	DIRECT	0.23	1	\$ 0	0.6000			\$ 0		
14	UNDERGROUND (CU) CA.	5C	V	DIRECT	0.54	1	\$ 1	0.6000			\$ 1		
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			\$ 1		
26	POLE LINE	1C	F	DIRECT	1.16	1	\$ 7	1.0000			\$ 0		
27	CONDUIT	4C	F	DIRECT	0.46	1	\$ 2	1.0000			\$ 0		
28													
29													
30													
31	TOTALS												
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47	FOOTNOTES												
48	NOTE 1:	APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.											
49	NOTE 2:	COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS :											
50		AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;											
51		CO EQPT - ESS = CONNECTORS + MISC. CP&E.											
52													
53													
54													
55													

CA123R24\LCAT\CALC\CUTECH			LOOP COST ANALYSIS TOOL					Bellcore [®]	
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: MELDED GAUGE / SUB-PRIMARY					TEST CASE: 1	
STATE / PROV: OHIO			SERVICE CLASS: BAND 3 - BUSINESS LINE					RUN DATE: 27-Jan-97	
			TIME: 12:48						
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			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			\$ 5 0.3943		\$ 1.80		\$ 0.15
BURIED CABLE (COPPER)	45C	1.0000			\$ 0 0.3377		\$ 0.13		\$ 0.01
UNDERGROUND (CU) CA.	5C	1.0000			\$ 1 0.3573		\$ 0.32		\$ 0.03
CO EQPT - LOW CAP TERM	257C	1.0000			0.3791				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3791				
CO EQPT - HI CAP TERM	857C	1.0000			0.3791				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2693				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			\$ 1 0.3717		\$ 0.44		\$ 0.04
CONDUIT	4C	1.0000			\$ 0 0.2431		\$ 0.11		\$ 0.01
SUBTOTALS			\$ 0		\$ 7	\$ 0.00	\$ 2.80	\$ 0.00	\$ 0.24
TOTALS					\$ 7		\$ 2.80		\$ 0.24
			culpinvsv			culpa		culpmrc	

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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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G7110003		CM123R24LCATCALC/CUTECH		LOOP COST ANALYSIS TOOL		Bellcore [®]	
SUB PRI - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Release: 1.0.4		Issue Date: 7/31/95	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL		FACILITY SEGMENT: SUB-PRIMARY PLANT		STUDY YR: 1996	
		CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 3 - BUSINESS LINE		TEST CASE: 1	
		STATE / PROV: OHIO				RUN DATE: 27-Jan-97	
						TIME: 12:48	
0		logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT		(SEE NOTE)	
1		BAND		0		TOTAL	
2		MIX		1.0000		AVG. WEIGHTED	
3		ACCT					
4		CODE		27360			
5		LGTH		300			
6		SEGLGTH				300	
7		PLANT ITEM					
8		LAND		20C		\$ 0.00	
9		BUILDING		10C		\$ 0.00	
10		BLDG ENTRANCE CABLE		12C		\$ 0.00	
11		INTRABLDG CABLE		52C		\$ 0.00	
12		AERIAL CABLE (COPPER)		22C		\$ 0.00	
13		BURIED CABLE (COPPER)		45C		\$ 0.00	
14		UNDERGROUND (CU) CA.		5C		\$ 0.00	
15		CO EQPT - P GAIN TERM		257C		\$ 0.00	
16		CO EQPT - P GAIN CHAN		257C		\$ 0.00	
17		CO EQPT - FO MUX TERM		857C		\$ 0.00	
18		CO EQPT - FO MUX CHAN		857C		\$ 0.00	
19		CO EQPT - ANALOG SW		77C		\$ 0.00	
20		CO EQPT - DIGITAL SW		377C		\$ 0.00	
21		AERIAL CABLE (FIBER)		822C		\$ 0.00	
22		BURIED CABLE (FIBER)		845C		\$ 0.00	
23		UNDERGROUND (FO) CA.		85C		\$ 0.00	
24		CONNECTORS		57C		\$ 0.00	
25		MISC. COM EQP & PWR		57C		\$ 0.00	
26		POLE LINE		1C		\$ 0.00	
27		CONDUIT		4C		\$ 0.00	
28		DIRECT RESOURCES					
29		LAND		20C		\$ 0.00	
30		BUILDING		10C		\$ 0.00	
31		BLDG ENTRANCE CABLE		12C		\$ 0.00	
32		INTRABLDG CABLE		52C		\$ 0.00	
33		AERIAL CABLE (COPPER)		22C		\$ 0.15	
34		BURIED CABLE (COPPER)		45C		\$ 0.01	
35		UNDERGROUND (CU) CA.		5C		\$ 0.03	
36		CO EQPT - P GAIN TERM		257C		\$ 0.00	
37		CO EQPT - P GAIN CHAN		257C		\$ 0.00	
38		CO EQPT - FO MUX TERM		857C		\$ 0.00	
39		CO EQPT - FO MUX CHAN		857C		\$ 0.00	
40		CO EQPT - ANALOG SW		77C		\$ 0.00	
41		CO EQPT - DIGITAL SW		377C		\$ 0.00	
42		AERIAL CABLE (FIBER)		822C		\$ 0.00	
43		BURIED CABLE (FIBER)		845C		\$ 0.00	
44		UNDERGROUND (FO) CA.		85C		\$ 0.00	
45		CONNECTORS		57C		\$ 0.00	
46		MISC. COM EQP & PWR		57C		\$ 0.00	
47		POLE LINE		1C		\$ 0.04	
48		CONDUIT		4C		\$ 0.01	
49							
50		SPAN SUMMARY		\$ 0.24		\$ 0.00	
51				\$ 0.00		\$ 0.00	
52		AVG. WTD. SPAN SUMMARY		\$ 0.24		\$ 0.00	
53				\$ 0.00		\$ 0.00	
54		NOTE: [sum(INV _{ACCT} BAND * MIX _{BAND})]					
55							

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RUN - CDLC PLANT

LAST UPDATE

27-Jan-97

11:00

LOOP COST ANALYSIS TOOL

BelcoreTM

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 18001 FEET - INFINITY

CURRENT TEST PLAN : CURRENT JOB IDENT: CINCINNATI

BASIS	NETWORK	TEST CASE	1
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 REVOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
CIRCUIT DESIGN: T C										DATE: 27-Jan-97	
SERVICE CLASS: BASIC - BUSINESS LINE										TIME: 12:49 PM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE: OHIO											
27360 cur. length											
300 cursidr-length											
f = 0.125 pgtfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4) (NOTE 5)											
CABLE WEIGHTED AIR DRYER											
INVESTMENT TERMINAL INVESTMENT											
PER CHAN INVESTMENT PER PAIR											
[E=C*D] [U*I*DTC] [E*factr]											
[E*factr] [U*I*DTC]											
[A] [B] [C=A*B*f] [D]											
23581 AERIAL 0.810000 2387.58 0.022600 \$ 53.96 \$ 0.00											
CO TO RT LINK											
ON BURIED 0.040000 117.91 0.037800 \$ 4.46 \$ 0.00											
COPPER CABLE DLC											
24.00 GA. FACILITIES UNDERGRND 0.150000 442.14 0.024000 \$ 10.61 \$ 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 = conpgnsvst \$ 0.00											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =											
UGD CONDUIT FACTOR (UCF) =											
CONDUIT INVESTMENT (UTIL UNDERGRND INVEST x UCF) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127											
MCE&P INVEST. (CU REMMUX x MCEP) = \$ 15.42											
MCE&P INVEST. (CDLCMUX x MCEP) = \$ 11.23											
MCE&P INVEST. (CO CONN x MCEP) = \$ 0.00											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf rem) = 0.0056											
LAND FACTOR FOR DLC (LANDf c.o.) = 0.0056											
LAND INVEST. (CU COMUX + MCEP) x LANDf = \$ 1.47											
LAND INVEST. ((CO CONN + MCEP) x LANDf) = \$ 0.00											
BUILDING FACTOR FOR DLC (BLDGf rem.) = 0.1316											
BUILDING FACTOR FOR DLC (BLDGf c.o.) = 0.1316											
BLDG INVEST. (CDLCMUX + MCEP) x BLDGf = \$ 34.63											
BLDG INVEST. ((CO CONN + MCEP) x BLDGf) = \$ 0.00											
LOOP TOPOLOGY											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF RING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
STAR											
NA											
NA											
0.0000											
1.0000											
1.0000											
0.0000											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED											
OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B: FOR 4 WIRE SERVICES, TABLE 4 IS MULTIPLY											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT											
ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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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: 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 CRR		TEST CASE:	
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: 1		DATE: 27-Jan-97	
		SERVICE CLASS: BAND 3 - 2'S NESS LINE		TIME: 12:49 PM	

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	1.47	1	\$ 1		1.0000	\$ 1	
BUILDING	10C	F	SHARED	34.76	1	\$ 35		1.0000	\$ 35	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	53.96	1		\$ 54	0.6000		\$ 90
BURIED CABLE (COPPER)	45C	V	DIRECT	4.46	1		\$ 4	0.6000		\$ 7
UNDERGROUND (CU) CA.	5C	V	DIRECT	10.61	1		\$ 11	0.6000		\$ 18
CO EQPT - P GAIN TERM	257C	F	DIRECT	79.13	1		\$ 79	0.7000		\$ 113
CO EQPT - P GAIN CHAN	257C	V	DIRECT	172.79	1		\$ 173	0.7000		\$ 247
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00				1.0000		
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	11.23	1	\$ 11		1.0000	\$ 11	
POLE LINE	1C	F	DIRECT	22.75	1		\$ 23	1.0000		\$ 23
CONDUIT	4C	F	DIRECT	9.13	1		\$ 9	1.0000		\$ 9
TOTALS										

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 PRIOR TO RELEASE
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 \$ 554
 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		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		\$ 1		0.2232	\$ 0.33		\$ 0.03	
BUILDING	10C	1.0000		\$ 35		0.2847	\$ 9.90		\$ 0.82	
BLDG ENTRANCE CABLE	12C	1.0000				0.3832				
INTRABLDG CABLE	52C	1.0000				0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			\$ 90	0.3943		\$ 35.46		\$ 2.96
BURIED CABLE (COPPER)	45C	1.0000			\$ 7	0.3377		\$ 2.51		\$ 0.21
UNDERGROUND (CU) CA.	5C	1.0000			\$ 18	0.3573		\$ 6.32		\$ 0.53
CO EQPT - P GAIN TERM	257C	1.0000			\$ 113	0.3791		\$ 42.86		\$ 3.57
CO EQPT - P GAIN CHAN	257C	1.0000			\$ 247	0.3791		\$ 93.58		\$ 7.80
CO EQPT - FO MUX TERM	857C	1.0000				0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000				0.3791				
CO EQPT - ESS - ANALOG	77C	1.0000				0.0000				
CO EQPT - ESS - DIGITAL	377C	1.0000				0.3368				
AERIAL CABLE (FIBER)	822C	1.0000				0.2893				
BURIED CABLE (FIBER)	845C	1.0000				0.2634				
UNDERGROUND (FO) CA.	85C	1.0000				0.2599				
CONNECTORS	57C	1.0000				0.3791				
MISC. COM EQP & PWR	57C	1.0000		\$ 11		0.3791	\$ 4.26		\$ 0.35	
POLE LINE	1C	1.0000			\$ 23	0.3717		\$ 8.46		\$ 0.70
CONDUIT	4C	1.0000			\$ 9	0.2431		\$ 2.22		\$ 0.19
TOTALS				\$ 47	\$ 507		\$ 14.48	\$ 191.40	\$ 1.21	\$ 15.95
					\$ 554			\$ 205.88		\$ 17.16
					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.

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TC:\123R24\LCATCALC\CUPRGN
CDLC PLANT - REPORT 14.1
Sheet 1 of 3**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellicoreTMLCAT Release: 1.0.4
Issue Date: 6/31/95
STUDY YR: 1996
TEST CASE: 1
DATE: 27-Jan-97
TIME: 12:50 PMCOMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT: PRIMARY FEEDER SEGMENT
CITY / AREA: CINCINNATI CIRCUIT DESIGN: 1 COPPER DIG LOOP CXR
STATE / PROV: OHIO SERVICE CLASS: BAND 3 - BUSINESS LINE

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

(SEE NOTE)

PLANT ITEM	BAND	MIX	ACCT	AVG	CODE	LGTH	SEG.LGTH.	TOTAL AVG. WEIGHTED INVESTMENT
						27360	23581	23581
SHARED RESOURCES								
LAND	20C						\$ 0.03	\$ 0.03
BUILDING	10C						\$ 0.82	\$ 0.82
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						\$ 0.35	\$ 0.35
POLE LINE	1C							\$ 0.00
CONDUIT	4C							\$ 0.00
DIRECT RESOURCES								
LAND	20C							\$ 0.00
BUILDING	10C							\$ 0.00
BLDG ENTRANCE CABLE	12C							\$ 0.00
INTRABLDG CABLE	52C							\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 2.96	\$ 2.96
BURIED CABLE (COPPER)	45C						\$ 0.21	\$ 0.21
UNDERGROUND (CU) CA.	5C						\$ 0.53	\$ 0.53
CO EQPT - P GAIN TERM	257C						\$ 3.57	\$ 3.57
CO EQPT - P GAIN CHAN	257C						\$ 7.80	\$ 7.80
CO EQPT - FO MUX TERM	857C							\$ 0.00
CO EQPT - FO MUX CHAN	857C							\$ 0.00
CO EQPT - ANALOG SW	77C							\$ 0.00
CO EQPT - DIGITAL SW	377C							\$ 0.00
AERIAL CABLE (FIBER)	822C							\$ 0.00
BURIED CABLE (FIBER)	845C							\$ 0.00
UNDERGROUND (FO) CA.	85C							\$ 0.00
CONNECTORS	57C							\$ 0.00
MISC. COM EQP & PWR	57C							\$ 0.00
POLE LINE	1C						\$ 0.70	\$ 0.70
CONDUIT	4C	-----					\$ 0.19	\$ 0.19
SPAN SUMMARY			17.16	0.00	0.00	0.00	0.00	17.16
AVG. WTD. SPAN SUMMARY			17.16	0.00	0.00	0.00	0.00	0.00
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{MANU})]								

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE

27-Jan-97

11:02

LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) BUSINESS LINE STUDY 18001 FEET

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										Belcore	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 12:51	
Sheet 1 of 3											
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: CINCINNATI											
STATE / PROV: OHIO											
from sfar_tbi: 300 cur_sdrigh from bw_mix: f = 1979.04 wtdeqvmn											
15620.5 cur_pnigh											
EFFECTIVE LENGTH MLD CABLE											
CABLE TYPE OF MIX OF SUBSET DESIGN											
IN FEET CABLE TYPE OF BY TYPE INVEST. PER											
fo3pri_segigh [A] [B] [C=A*B/f] [D]											
23581 AERIAL 0.810000 9.65 0.193000											
CO TO HUB LINK ON BURIED 0.000000 0.00 0.000000											
FIBER OPTIC FACILITIES UNDERGRND 0.190000 2.26 0.222900											
1.000000											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00											
MISC. COM. EQPT. & POWER FACTOR (DLGrem) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR (DLGc.o.) = 0.1127											
MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127											
MCE&P INVEST. (MUXc.o.+DLGc.o.) x MCEPc.o. = \$ 13.71											
MCE&P INVEST. (MUXrem+DLGrem) x MCEPrem = \$ 17.77											
MCE&P INVEST. (CA CONN x MCEPc.o.) = \$ 0.00											
MCE&P INVEST. (CA CONN x MCEPrem) = \$ 0.00											
LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056											
LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056											
LAND FACTOR FOR OTH (LANDfrem) = 0.0056											
LAND FACTOR FOR DLG EQP (LANDfrem) = 0.0056											
LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056											
LAND FACTOR FOR OTH (LANDfrem) = 0.0056											
LAND INVEST. (DLG+MUX+MCEP) x LANDfrem = \$ 0.76											
LAND INVEST. (MUX+DLG+MCEP) x LANDfrem = \$ 0.98											
BUILDING FACTOR FOR DLG EQP (BLDGfrem) = 0.1316											
BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316											
BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316											
BUILDING FACTOR FOR DLG EQP (BLDGfrem) = 0.1316											
BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316											
BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316											
BLDG INVEST. (DLG+MUX+MCEP) x BLDGfrem = \$ 17.81											
BLDG INVEST. (MUX+DLG+MCEP) x BLDGfrem = \$ 23.00											
OTHER INVESTMENT											
inv / unit lgth.: inv rth fctr:											
POLE LINE FACTOR (PLf) = 0.0000 0.1965											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 1.11											
UNDERGROUND CONDUIT FACTOR (PLf) = 0.0000 0.5232											
CONDUIT INVESTMENT (UTIL UNDGRND INVEST x UCf) = \$ 0.80											
LOOP TOPOLOGY											
STAR											
AVERAGE NUMBER OF HUBS NA											
ADDITIONAL LENGTH OF RING OSP REQUIRED NA											
MIX OF CENT. OFC. ANALOG INTFC 0.0000											
MIX OF CENT. OFC. DIGITAL INTFC 1.0000											
MIX OF UNIVERSAL DLC INTFC 1.0000											
MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B: FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 3 PROVIDED TO PUCO											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

LOOP COST ANALYSIS TOOL										Bellcore TM	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3) FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BUSINSERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 12:51	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT INVESTMENTS BY ACCOUNT 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION ADMIN. UTIL. LINE 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION											
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE	SHARED RESOURCES	DIRECT RESOURCES	
LAND	20C	F	SHARED	1.74	1	\$ 2		1.0000	\$ 2		
BUILDING	10C	F	SHARED	40.90	1	\$ 41		1.0000	\$ 41		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000			
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
CO EQPT - LOW CAP TERM	257C	F	DIRECT	63.71	1		\$ 64	0.7000		\$ 91	
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	172.79	1		\$ 173	0.7000		\$ 247	
CO EQPT - HI CAP TERM	857C	F	DIRECT	22.47	1		\$ 22	1.0000		\$ 22	
CO EQPT - HI CAP CHAN	857C	F	DIRECT	38.11	1		\$ 38	1.0000		\$ 38	
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT	1.86	1		\$ 2	0.3300		\$ 6	
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.50	1		\$ 1	0.3300		\$ 2	
CONNECTORS	57C	V	DIRECT	0.00				1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	13.71	1		\$ 14	1.0000	\$ 14		
POLE LINE	1C	F	DIRECT	1.11	1		\$ 1	1.0000		\$ 1	
CONDUIT	4C	F	DIRECT	0.80	1		\$ 1	1.0000		\$ 1	
TOTALS \$ 408 \$ 484 \$ 484											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&P INV. NOTE 3: ESS CO EQPT = C.O. CONN + MCE&P INV NOTE 3: CABLE INVESTMENT IS THE SUM OF THE CABLE INV [H] + DRYER INV [J] + DROP WIRE ADJUST [K]											

LOOP COST ANALYSIS TOOL										Bellcore (V)	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 27-Jan-97	
										TIME: 12:51	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT LOOP INVESTMENT BY ACCOUNT 1996 UNIT ANNUAL COSTS BY ACCOUNT 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT	ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT					
			SHARED RESOURCES fo3suxaset	DIRECT RESOURCES fo3dixaset		SHARED RESOURCES fo3suxaset	DIRECT RESOURCES fo3dixaset	SHARED RESOURCES fo3suxaset	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]		
LAND	20C	1.0000	\$ 2		0.2232	\$ 0.39		\$ 0.03			
BUILDING	10C	1.0000	\$ 41		0.2847	\$ 11.64		\$ 0.97			
BLDG ENTRANCE CABLE	12C	1.0000			0.3832						
INTRABLDG CABLE	52C	1.0000			0.3832						
AERIAL CABLE (COPPER)	22C	1.0000			0.3943						
BURIED CABLE (COPPER)	45C	1.0000			0.3377						
UNDERGROUND (CU) CA.	5C	1.0000			0.3573						
CO EQPT - LOW CAP TERM	257C	1.0000		\$ 91	0.3791		\$ 34.50		\$ 2.88		
CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 247	0.3791		\$ 93.58		\$ 7.80		
CO EQPT - HI CAP TERM	857C	1.0000		\$ 22	0.3791		\$ 8.52		\$ 0.71		
CO EQPT - HI CAP CHAN	857C	1.0000		\$ 38	0.3791		\$ 14.45		\$ 1.20		
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3368						
AERIAL CABLE (FIBER)	822C	1.0000		\$ 6	0.2893		\$ 1.63		\$ 0.14		
BURIED CABLE (FIBER)	845C	1.0000			0.2634						
UNDERGROUND (FO) CA.	85C	1.0000		\$ 2	0.2589		\$ 0.40		\$ 0.03		
CONNECTORS	57C	1.0000			0.3791						
MISC. COM EQP & PWR	57C	1.0000	\$ 14		0.3791	\$ 5.20		\$ 0.43			
POLE LINE	1C	1.0000		\$ 1	0.3717		\$ 0.41		\$ 0.03		
CONDUIT	4C	1.0000		\$ 1	0.2431		\$ 0.19		\$ 0.02		
TOTALS			\$ 56	\$ 408		\$ 153.69		\$ 12.81			
				\$ 464		\$ 170.91		\$ 14.24			
				feed3sy		feed3mrc		feed3mrc			

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FOOTNOTES
 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
 NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
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A		C:\123R24\LCAT\CALC\FOPRGN.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]	
B		FO_MUX - REPORT 14.3		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Rel: 1.0.4	
C		Sheet 1 of 1		FOR PRIMARY FEEDER PLANT		ISSUE DATE: 7/31/95	
D		COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: FIBER IN THE LOOP		STUDY YR: 1996	
E		CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 3] FOMUX TO HUB / REM.		TEST CASE: 1	
F		STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - BUSIN SERVICE LEVEL: NARBAND		LAST RUN: 27-Jan-97	
G						TIME: 12:51	
0		data - 14a3 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					(SEE NOTE)
1			BAND	0		TOTAL	
2		PLANT MIX		1.0000		AVG WEIGHTED	
3		ACCT AVG.				INVESTMENT	
4		PLANT ITEM	CODE LGTH	27360			
5			SEG.LGTH.	23581			23581
6		SHARED RESOURCES					
7		LAND	20C	\$ 0.03			\$ 0.03
8		BUILDING	10C	\$ 0.97			\$ 0.97
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	\$ 0.43			\$ 0.43
25		POLE LINE	1C				\$ 0.00
26		CONDUIT	4C				\$ 0.00
27		DIRECT RESOURCES					
28		LAND	20C				\$ 0.00
29		BUILDING	10C				\$ 0.00
30		BLDG ENTRANCE CABLE	12C				\$ 0.00
31		INTRABLDG CABLE	52C				\$ 0.00
32		AERIAL CABLE (COPPER)	22C				\$ 0.00
33		BURIED CABLE (COPPER)	45C				\$ 0.00
34		UNDERGROUND (CU) CA.	5C				\$ 0.00
35		CO EQPT - LOW CAP TERM	257C	\$ 2.88			\$ 2.88
36		CO EQPT - LOW CAP CHAN	257C	\$ 7.80			\$ 7.80
37		CO EQPT - HI CAP TERM	857C	\$ 0.71			\$ 0.71
38		CO EQPT - HI CAP CHAN	857C	\$ 1.20			\$ 1.20
39		CO EQPT - ANALOG SW	77C				\$ 0.00
40		CO EQPT - DIGITAL SW	377C				\$ 0.00
41		AERIAL CABLE (FIBER)	822C	\$ 0.14			\$ 0.14
42		BURIED CABLE (FIBER)	845C				\$ 0.00
43		UNDERGROUND (FO) CA.	85C	\$ 0.03			\$ 0.03
44		CONNECTORS	57C				\$ 0.00
45		MISC. COM EQP & PWR	57C				\$ 0.00
46		POLE LINE	1C	\$ 0.03			\$ 0.03
47		CONDUIT	4C	\$ 0.02			\$ 0.02
48							
49							
50		SPAN SUMMARY		14.24	0.00	0.00	\$ 14.24
51							
52		AVG. WTD. SPAN SUMMARY		14.24	0.00	0.00	
53							
54		NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					
55							

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