

Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

Today's Date: MAY 11 2011

Page Count 200

Part 22

MCI Exhibits

1-48

This is to certify that the images appearing are an
accurate and complete reproduction of a case file
document delivered in the regular course of business
Technician SM Date Processed

MAY 11 2011

C:\123R24\LCATCALC.CCLPRGN		LOOP COST ANALYSIS TOOL					Belcore		
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		
		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY					STUDY YR : 1996		
		FACILITY TYPE : COPPER DIG LOOP CXR					TEST CASE :		
		CIRCUIT DESIGN : T1C					DATE : 28-Jan-97		
		SERVICE CLASS : BAND 2 - RESIDENCE ISDN					TIME : 03:46 PM		
COMPANY: CINCINNATI BELL TEL.									
CITY / AREA : OHIO									
STATE / PROV : CINCINNATI									
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPJ [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3022				
INTRABLDG CABLE	52C	1.0000			0.3022				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000				
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EGP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			===== \$0	===== \$0		\$0.00	\$0.00	\$0.00	\$0.00
				===== \$0					
				FEED1SY					

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
H

LOOP COST ANALYSIS TOOL				Bellcore	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
C:\123R24\LCATC\ALC\GUPRGN				Issue Date: 9/31/95	
CDLG_PLANT - REPORT 14.1				STUDY YR: 1996	
Sheet 1 of 3				TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL.				DATE: 26-Jan-97	
CITY / AREA: CINCINNATI				TIME: 03:47 PM	
STATE / PROV: OHIO					
FACILITY SEGMENT: PRIMARY FEEDER SEGMENT					
CIRCUIT DESIGN: 11 COPPER DIG LOOP CXX					
SERVICE CLASS: BAND 2 - RESIDENCE ISDN					
logic-14a				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	
BAND				(SEE NOTE)	
PLANT MIX				TOTAL	
ACCT AVG				AVG. WEIGHTED	
CODE LGTH				INVESTMENT	
SEGL LGTH.				0	
10541					
0					
PLANT ITEM					
SHARED 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 - P GAIN TERM 257C				\$ 0.00	
CO EQPT - P GAIN CHAN 257C				\$ 0.00	
CO EQPT - FO MUX TERM 857C				\$ 0.00	
CO EQPT - FO MUX CHAN 857C				\$ 0.00	
CO EQPT - ANALOG SW 77C				\$ 0.00	
CO EQPT - DIGITAL SW 377C				\$ 0.00	
AERIAL CABLE (FIBER) 822C				\$ 0.00	
BURIED CABLE (FIBER) 845C				\$ 0.00	
UNDERGROUND (FO) CA. 85C				\$ 0.00	
CONNECTORS 57C				\$ 0.00	
MISC. COM EQP & PWR 57C				\$ 0.00	
POLE LINE 1C				\$ 0.00	
CONDUIT 4C				\$ 0.00	
DIRECT RESOURCES					
LAND 20C				\$ 0.00	
BUILDING 10C				\$ 0.00	
BLDG ENTRANCE CABLE 12C				\$ 0.00	
INTRABLDG CABLE 52C				\$ 0.00	
AERIAL CABLE (COPPER) 22C				\$ 0.00	
BURIED CABLE (COPPER) 45C				\$ 0.00	
UNDERGROUND (CU) CA. 5C				\$ 0.00	
CO EQPT - P GAIN TERM 257C				\$ 0.00	
CO EQPT - P GAIN CHAN 257C				\$ 0.00	
CO EQPT - FO MUX TERM 857C				\$ 0.00	
CO EQPT - FO MUX CHAN 857C				\$ 0.00	
CO EQPT - ANALOG SW 77C				\$ 0.00	
CO EQPT - DIGITAL SW 377C				\$ 0.00	
AERIAL CABLE (FIBER) 822C				\$ 0.00	
BURIED CABLE (FIBER) 845C				\$ 0.00	
UNDERGROUND (FO) CA. 85C				\$ 0.00	
CONNECTORS 57C				\$ 0.00	
MISC. COM EQP & PWR 57C				\$ 0.00	
POLE LINE 1C				\$ 0.00	
CONDUIT 4C				\$ 0.00	
SPAN SUMMARY				0.00	0.00
AVG. WTD. SPAN SUMMARY				0.00	0.00
NOTE: [sum(INV ACCT * MAX * MIX * MAX)]					

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

C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 7/31/95

15:31

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE ISDN STUDY 0 - 18000 FEET INTRAST

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

....your run is finished

DN

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/85	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1988	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - RESIDI SERVICE LEVEL: NARBAND										LAST RUN: 28-Jan-97	
										TIME: 15:47	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from sldr_tbl: 8444 cur_sldrigh 0 cur_prlgh SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF PLANT EFFECTIVE LENGTH BY TYPE OF PLANT MLD CABLE DESIGN INVEST. PER PAIR FOOT CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] WEIGHTED TERMINAL INVESTMENT [UI*DTG] AIR DRYER INVESTMENT PER PAIR [E*tdr] DROP WIRE ADJUSTMENT PER PAIR [E*tdr] DROP WIRE INVESTMENT PER PAIR [UI*DTG]											
CO TO HUB LINK ON FIBER OPTIC FACILITIES AERIAL BURIED UNDERGRND 0.480000 0.00 0.193000 0.00 0.269400 0.00 0.182700 1.000000											
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.) = \$ 7.79 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 61.57 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) = 0.0058 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0058 LAND FACTOR FOR OTH (LANDfrem) = 0.0058 LAND FACTOR FOR OTH (LANDfrem) = 0.0058 LAND FACTOR FOR OTH (LANDfrem) = 0.0058 LAND FACTOR FOR OTH (LANDfrem) = 0.0058 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.43 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 3.40 BUILDING FACTOR FOR DDC 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 OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 10.12 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 80.00											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00 UNDERGROUND CONDUIT FACTOR (PLf) = 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDERGRND INVST x UCf) = \$ 0.00											
LOOP TOPOLOGY AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 0.0400 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.9600											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT Ref: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1995	
CIRCUIT DESIGN: 3) FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - RESID										LAST RUN: 28-Jan-97	
SERVICE LEVEL: NARBAND										TIME: 15:47	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1995 UNIT INVESTMENTS BY ACCOUNT 1995 UNIT LOOP INVESTMENT EXCL. UTILIZATION 1995 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	
		cmstart		[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]	
LAND	20C	F	SHARED	3.83	0			1.0000			
BUILDING	10C	F	SHARED	90.12	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	143.27	0			0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	363.30	0			0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT	67.48	0			1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT	102.97	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	7.79	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS										\$0	\$0
										\$0	\$0
										\$0	\$0
										feed3ly	

CONFIDENTIAL
NOTICE: NOT BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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]

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL									
ANNUAL COSTS WORKSHEET									
FOR PRIMARY FEEDER PLANT									
FACILITY TYPE: FIBER IN THE LOOP									
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.									
SERVICE CLASS: BAND 2 - RE SERVICE LEVEL: NARBAND									
COMPANY: CINCINNATI BELL TEL		CITY / AREA: CINCINNATI		STATE / PROV: OHIO		LCAT Rel: 1.0.4		ISSUE DATE: 7/31/95	
STUDY YR: 1996		TEST CASE: 1		LAST RUN: 25-Jan-97		TIME: 15:47			
PLANT ITEM	PLANT ACCT CODE	1996 TO 1998 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT	ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT			
			SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset		SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset
			[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]
[PREVIOUS SHEET SUMMARY]									
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3063				
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3467				
AERIAL CABLE (FIBER)	822C	1.0000			0.2653				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 0	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
				\$ 0		\$ 0.00			\$ 0.00
				feed3sy		feed3ann		feed3mrc	

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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\COSTMETH

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 : 24-Oct-95

TIME : 08:55

COMPANY: CINCINNATI BELL TEL

STATE: OHIO

SWITCHED SERVICES

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARBAND		WIDEBAND		BROADBAND	
		CATEGORY	SENS. RESOURCE	CATEGORY	SENS. RESOURCE	CATEGORY	SENS. RESOURCE
		INDEX	ASSIGNMENT	INDEX	ASSIGNMENT	INDEX	ASSIGNMENT
LAND	LAND	20C	F SHARED	F SHARED	F SHARED	F SHARED	F SHARED
BUILDING	BLDG	10C	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
INTRABLDG CABLE	IBC	52C	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
BURIED CABLE (COPPER) ①	BCU	45C	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
CO EQPT - LOW CAP TERM	DLCT	257C	F 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
CO EQPT - HI CAP TERM	MUXT	857C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CO EQPT - HI CAP CHAN	MUXC	857C	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
CO EQPT - DIGITAL SW	DCOE	377C	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
BURIED CABLE (FIBER)	BFO	845C	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
CONNECTORS	CONN	57C	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
POLE LINE	POLE	1C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CONDUIT	COND	4C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT

FOOTNOTES

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\COSTMETH

HELP SCREEN**Bellicore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (2)

TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 08:55

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

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

FOOTNOTES

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

NOTICE MUST BE RELEASED TO PUCO
 PRIOR TO RELEASE
 PROVIDED TO PUCO

C:\123R24\LCATR096\COSTMETH

HELP SCREEN**BelcoreTM**

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123P24\LCAT096\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS : 28-Jan-97	
LCAT Rel. : 1.0.4				LAST UPDATE:	
Issue Date : 3/31/95				24-Oct-95 08:58 AM	
STUDY NAME		1996 BAND 2 (OHIO) RESIDENCE ISDN STUDY 0 - 18000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 2 - RESIDENCE ISDN		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			

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA1123R24\LCATR096\CRITERIA

INPUT - STUDY SETUP

Sheet 1 of 2

HELP SCREENBellcore[®]

LCAT Rel. 1.0.4

ISSUED: 3/31/95

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

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

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

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

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

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\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 - RESIDENCE ISDN		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 08:58 AM																													
CONCERNING - SERVICE SPEC. OFFICE CHAR. RESULTS 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 ? 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connections are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is(e.g.: RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.																																	
VALID RESPONSE SET <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>N or A</td><td>NEW</td></tr> <tr><td>S or P</td><td>SWITCHED</td></tr> <tr><td>N, W or B</td><td>NARBAND</td></tr> <tr><td>2 or 4</td><td>2</td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>0 → 100</td><td>100</td></tr> <tr><td>0 → 100</td><td>96</td></tr> <tr><td>0 → 100</td><td></td></tr> <tr><td>e.g., 12000</td><td>18000 Feet</td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>For D</td><td>FLAT RATE</td></tr> <tr><td>L23</td><td></td></tr> <tr><td>I, C or A</td><td></td></tr> <tr><td>Term</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>RATES PLAN</td><td></td></tr> </table>						N or A	NEW	S or P	SWITCHED	N, W or B	NARBAND	2 or 4	2	0 → 100	100	0 → 100	96	0 → 100		e.g., 12000	18000 Feet	For D	FLAT RATE	L23		I, C or A		Term		1		RATES PLAN	
N or A	NEW																																
S or P	SWITCHED																																
N, W or B	NARBAND																																
2 or 4	2																																
0 → 100	100																																
0 → 100	96																																
0 → 100																																	
e.g., 12000	18000 Feet																																
For D	FLAT RATE																																
L23																																	
I, C or A																																	
Term																																	
1																																	
RATES PLAN																																	

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

C:\123R24\LCATR096\CRITERIA

HELP SCREENBellcoreTM

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN Sheet 1 / 1 COMPANY : CINCINNATI BELL TEL. CITY / AREA : CINCINNATI STATE / PROV : OHIO		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 24-Oct-96 TIME : 09:00

CIRCUIT DESIGN

Study Parameters Study Basis: NETWORK STUDY Service Level: NARBAND Loop Topology: STAR CIRCUIT LAYOUT REQUIREMENTS - FOR FIBER HUBS & FEEDER EXTENSIONS (FIBER HUB TO REMOTE TERMINAL LINK) FACILITY INTERFACE SITES : Proportion of Fiber Circuits WITHOUT Fiber Hubs 0.0000 FACILITY TECHNOLOGIES: Of the Hubbed Circuits - Proportion of links on Fiber Tech. 0.0000 Proportion of links on CDLC / MAR 0.0000 FOR SERVICE ACCESS NETWORK (REMOTE TERMINAL TO CUSTOMER LINK) FACILITY INTERFACE SITES : Proportion of Remote terminals colocated at Customer Premises 0.0000	CIRCUIT DESIGN REQUIREMENTS - SELECTION & DISTRIBUTION: Note FOR FIBER DLC DESIGNS: <table style="width:100%;"> <tr><td>Weighting of Design #1</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #3</td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> <tr><td>Weighting of Design #4</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #5</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td>Weighting of Design #6</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td colspan="2" style="border: 1px solid black; text-align: right;">1.0000 ChkSum</td></tr> </table> FOR COPPER DLC DESIGNS: <table style="width:100%;"> <tr><td>Weighting of Design #1</td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td colspan="2" style="border: 1px solid black; text-align: right;">1.0000 ChkSum</td></tr> </table> 'NA' DENOTES THAT THE CIRCUIT DESIGN PROBABLY DOES NOT APPLY TO THIS SET OF STUDY PARAMETERS.	Weighting of Design #1	0.0000	Weighting of Design #2	0.0000	Weighting of Design #3	1.0000	Weighting of Design #4	0.0000	Weighting of Design #5	NA 0.0000	Weighting of Design #6	NA 0.0000	1.0000 ChkSum		Weighting of Design #1	1.0000	Weighting of Design #2	NA 0.0000	1.0000 ChkSum	
Weighting of Design #1	0.0000																				
Weighting of Design #2	0.0000																				
Weighting of Design #3	1.0000																				
Weighting of Design #4	0.0000																				
Weighting of Design #5	NA 0.0000																				
Weighting of Design #6	NA 0.0000																				
1.0000 ChkSum																					
Weighting of Design #1	1.0000																				
Weighting of Design #2	NA 0.0000																				
1.0000 ChkSum																					

C:\123R24\LCATR096\DESIGN
INPUT - LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN**Belcore**

LCAT Rel :1.0.4

Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

WARNING

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

**SERVICE
SPECIFIC**

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

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

CONFIDENTIAL
NOT TO BE RELEASED TO PUBLIC
PRIOR TO RELEASE TO PUBLIC

CA123R24\LCAT096\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/95	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996	
STATE/PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 1	
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96	
				TIME: 09:05	
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	\$ 0.1830	per fiber pair Foot	
		BURIED	\$ 0.2694	per fiber pair Foot	
		UNDGRD	\$ 0.1827	per fiber pair Foot	
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.1830	\$ 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)			

CONFIDENTIAL
DO NOT BE GIVEN
TO THE PUBLIC
PRIOR TO RELEASE
PROVIDED TO YOU

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT09\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore
TABLE - SPAN_INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER / CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE ISDN				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:05
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	\$	\$	\$		

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\323R24\LCATR096\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24(LCATR095 FACILITY		LOOP COST ANALYSIS TOOL				Bellcore (P)																																															
TABLE - SPAN INV SHEET 2 / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT COPPER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE ISDN				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:05																																															
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																																					
Cable Gauge Mix : <u>GAUGE</u> The Proportion of Copper Cable that is		FEEDER SEGMENT <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>26 GA.</td><td>0.1500</td></tr> <tr><td>24 GA.</td><td>0.8500</td></tr> <tr><td>22 GA.</td><td>0.0000</td></tr> </table>		26 GA.	0.1500	24 GA.	0.8500	22 GA.	0.0000	DISTRIBUTION SEGMENT <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>0.1500</td></tr> <tr><td>0.8500</td></tr> <tr><td>0.0000</td></tr> </table>		0.1500	0.8500	0.0000	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge : Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y / N) N If not, Update																																						
26 GA.	0.1500																																																				
24 GA.	0.8500																																																				
22 GA.	0.0000																																																				
0.1500																																																					
0.8500																																																					
0.0000																																																					
Cable Type Mix, By Gauge : The Proportion of Copper Cable that is		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">GAUGE</th> <th style="text-align: left;">FEEDER SEGMENT</th> <th style="text-align: left;">DISTRIBUTION SEGMENT</th> </tr> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.2900</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.2900</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> </tr> </table>		GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	26 GA.	AERIAL	0.2900	BURIED	0.0200	UNDGRND	0.6900	24 GA.	AERIAL	0.2900	BURIED	0.0200	UNDGRND	0.6900	22 GA.	AERIAL	0.0000	BURIED	0.0000	UNDGRND	0.0000	Average Unit Investment for Copper Cable Installed as <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">GAUGE</th> <th style="text-align: left;">FEEDER SEGMENT</th> <th style="text-align: left;">DISTRIBUTION SEGMENT</th> </tr> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>\$ 0.0008</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0000</td> </tr> </table>		GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	26 GA.	AERIAL	\$ 0.0119	BURIED	\$ 0.0205	UNDGRND	\$ 0.0110	24 GA.	AERIAL	\$ 0.0119	BURIED	\$ 0.0205	UNDGRND	\$ 0.0110	22 GA.	AERIAL	\$ 0.0008	BURIED	\$ 0.0000	UNDGRND	\$ 0.0000
GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT																																																			
26 GA.	AERIAL	0.2900																																																			
	BURIED	0.0200																																																			
	UNDGRND	0.6900																																																			
24 GA.	AERIAL	0.2900																																																			
	BURIED	0.0200																																																			
	UNDGRND	0.6900																																																			
22 GA.	AERIAL	0.0000																																																			
	BURIED	0.0000																																																			
	UNDGRND	0.0000																																																			
GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT																																																			
26 GA.	AERIAL	\$ 0.0119																																																			
	BURIED	\$ 0.0205																																																			
	UNDGRND	\$ 0.0110																																																			
24 GA.	AERIAL	\$ 0.0119																																																			
	BURIED	\$ 0.0205																																																			
	UNDGRND	\$ 0.0110																																																			
22 GA.	AERIAL	\$ 0.0008																																																			
	BURIED	\$ 0.0000																																																			
	UNDGRND	\$ 0.0000																																																			
NOTE : If the DROP WIRE resource Investment is averages, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either the or on the ADJUST input file worksheet.																																																					

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR096\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 2A / 4		LOOP FACILITY INFO COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR		LCAT Ref: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96 TIME: 09:05	

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

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

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore[®]SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Ver: 1.5.2
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 24-Oct-96
TIME: 09:05COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE/PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - RESIDENCE ISDN

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
	[A]	[B]	[C]	[D=A*C]	[E=B*C]
CHARACTERISTICS FOR:					
AERIAL @ 26 GA.	0.620000	\$ 0.042600	0.1500	0.093000	\$ 0.006390
BURIED @ 26 GA.	0.330000	\$ 0.066800	0.1500	0.049500	\$ 0.010020
UNDGRND @ 26 GA.	0.050000	\$ 0.058000	0.1500	0.007500	\$ 0.008700
AERIAL @ 24 GA.	0.620000	\$ 0.042600	0.8500	0.527000	\$ 0.036210
BURIED @ 24 GA.	0.330000	\$ 0.066800	0.8500	0.280500	\$ 0.056780
UNDGRND @ 24 GA.	0.050000	\$ 0.058000	0.8500	0.042500	\$ 0.049300
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

--- TABLE 2 ---

--- TABLE 4 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR:						
AERIAL	(F=sum(DType))		(G=sum(EType))		(H=FType / sum(FType))	
BURIED	0.620000		\$ 0.042600		\$ 0.652632	
UNDERGRND	0.330000		\$ 0.066800		\$ 0.347368	
	0.050000		\$ 0.058000			
Check =	1.000000				1.000000	

FOOTNOTES

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

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

LCAT

INPUT SCREEN

Page -4-

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore®																															
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT SERVICE CLASS: BAND 2 - RESIDENCE ISDN			LCAT Rev: 1.0.4 Issue Date: 07/31/95 STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:05																															
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO																																				
MELEDED CABLE INVESTMENT PER PAIR FOOT																																				
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pft...fd)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI																															
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]																															
AERIAL @ 26 GA.	0.290000	\$ 0.011900	0.1500	0.043500	\$ 0.001785																															
BURIED @ 26 GA.	0.020000	\$ 0.020500	0.1500	0.003000	\$ 0.003075																															
UNDGRND @ 26 GA.	0.690000	\$ 0.011000	0.1500	0.103500	\$ 0.001650																															
AERIAL @ 24 GA.	0.290000	\$ 0.011900	0.8500	0.246500	\$ 0.010115																															
BURIED @ 24 GA.	0.020000	\$ 0.020500	0.8500	0.017000	\$ 0.017425																															
UNDGRND @ 24 GA.	0.690000	\$ 0.011000	0.8500	0.586500	\$ 0.009350																															
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																															
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																															
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																															
--- TABLE 2 --- <table border="1"> <thead> <tr> <th>DATA DESC.</th> <th>CABLE TYPE MIX RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td>CHARACTERISTICS FOR:</td> <td>[F=sum(D*TYPE)]</td> <td></td> </tr> <tr> <td>AERIAL</td> <td>0.290000</td> <td></td> </tr> <tr> <td>BURIED</td> <td>0.020000</td> <td></td> </tr> <tr> <td>UNDERGRND</td> <td>0.690000</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> <td></td> </tr> </tbody> </table> --- TABLE 4 --- <table border="1"> <thead> <tr> <th>PAIR / FOOT INVESTMENT RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td>[G=sum(E*TYPE)]</td> <td></td> </tr> <tr> <td>\$ 0.011900</td> <td></td> </tr> <tr> <td>\$ 0.020500</td> <td></td> </tr> <tr> <td>\$ 0.011000</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> </tr> </tbody> </table>							DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	CHARACTERISTICS FOR:	[F=sum(D*TYPE)]		AERIAL	0.290000		BURIED	0.020000		UNDERGRND	0.690000		Check =	1.000000		PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	[G=sum(E*TYPE)]		\$ 0.011900		\$ 0.020500		\$ 0.011000		Check =	1.000000
DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES																																		
CHARACTERISTICS FOR:	[F=sum(D*TYPE)]																																			
AERIAL	0.290000																																			
BURIED	0.020000																																			
UNDERGRND	0.690000																																			
Check =	1.000000																																			
PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES																																			
[G=sum(E*TYPE)]																																				
\$ 0.011900																																				
\$ 0.020500																																				
\$ 0.011000																																				
Check =	1.000000																																			
FOOTNOTES																																				

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\1123R24\LCATR096\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (P)
TABLE - SPAN INV SHEET 3 / 4 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE/PCV: OHIO		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA FOR INVESTMENT YEAR : 1996 LOOP STUDY YEAR : 1996 SERVICE CLASS : BAND 2 - RESIDENCE ISDN		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 24-Oct-96 TIME : 09:05
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 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
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.				

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

C:\123R24\LCATR096\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

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

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

CONFIDENTIAL
NOTICE MUST BE GIVEN
BEFORE RELEASE TO PUBLIC
PROVIDED TO PUBLIC

***** 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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR096\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore (M)	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR FACILITY TYPE: COPPER CABLE for DLC		STUDY YR: 1996	
CITY / AREA: OHIO		DESIGN TYPE: FEEDER SEGMENT		TEST CASE: 1996	
STATE/PROV: CINCINNATI		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		DATE: 1	
				LAST UPDATE: 24-Oct-96	
				TIME: 09:05	
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT			
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT		
	(A)	(B)	(C=B/A)		
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000		
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000		
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000		
TABLE 4 DEVELOPMENT FOR:		COPPER CABLE UNIT INVESTMENT		FOR DLC Gauge: 24.00	
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT	BY CODE BY GAUGE	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	WORKING CHANNEL INVESTMENT / FOOT
DESCRIPTION	2" (PF1000)	2" (PF1000)	2" (PF1000)	(ADL OFFICE)	(ADL OFFICE)
	(D)	(E=C)			
AERIAL @ 26 GA.	\$ 0.023800	\$ 0.000000		\$ 0.023800	\$ 0.023800
BURIED @ 26 GA.	\$ 0.041000	\$ 0.000000		\$ 0.041000	\$ 0.041000
UNDGRND @ 26 GA.	\$ 0.022000	\$ 0.000000		\$ 0.022000	\$ 0.022000
AERIAL @ 24 GA.	\$ 0.023800	\$ 0.000000		\$ 0.023800	\$ 0.023800
BURIED @ 24 GA.	\$ 0.041000	\$ 0.000000		\$ 0.041000	\$ 0.041000
UNDGRND @ 24 GA.	\$ 0.022000	\$ 0.000000		\$ 0.022000	\$ 0.022000
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000		\$ 0.000000	\$ 0.000000
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000		\$ 0.000000	\$ 0.000000
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000		\$ 0.000000	\$ 0.000000
NOTES:					
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.					

CONFIDENTIAL
NOT TO BE RELEASED
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT096\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: 1								
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96 TIME: 09:05								
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS												
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :										
The Average Number of Terminals in the Service Access Segment of a Loop -												
Proportion of Loops that use.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial</td> <td>0.00</td> </tr> <tr> <td>Buried</td> <td>0.00</td> </tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial Termination</td> <td>0</td> </tr> <tr> <td>Buried Termination</td> <td>0</td> </tr> </table>		Aerial Termination	0	Buried Termination	0
Aerial	0.00											
Buried	0.00											
Aerial Termination	0											
Buried Termination	0											
The Average Drop Wire & Building Entrance Cable Installation -												
Proportion of Loops that use..	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Buried Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>1.0000</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>0.0000</td> </tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest. for DW Investment ? (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="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Buried Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>\$ 75.00</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>\$ 0.00</td> </tr> </table>		Aerial Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00
Aerial Wire Drops	\$ 0.00											
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 Installation Intrabuilding Network Cable Pair	\$ 0.00									

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

\\LCATR096\FACILITY
SPAN_INV
/4

HELP SCREEN

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

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

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

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

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

***** 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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996	STUDY YEAR: 1996	STUDY YR: 1996
CITY / AREA: CINCINNATI		TEST CASE: 1		LAST UPDATE: 17-Jan-97
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		TIME: 15:22

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR095\INVEST

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - EQUIP_INV
Sheet 1 of 1DATA REFERENCE TABLE
EQUIPMENT & OTHER INVESTMENTS
FOR

LCAT Rel : 1.0.4

Issued : 07/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE: 24-Oct-96

09:07

COMPANY: CINCINNATI BELL TEL.

INVESTMENT YEAR: 1996

CITY / AREA : CINCINNATI

SERVICE LEVEL: NARBAND

STATE / PROV : OHIO

SERVICE CLASS: BAND 2 - RESIDENCE ISDN

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	\$ 361.90	\$ 39.75	\$ 348.82	\$ 141.70
For an Integrated DLC Equipment Arrangement	\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :					
1. For a Hub with nonFiber Extensions or nonHub Arrangement	\$ 49.18		\$ 3.95	\$ 53.79	\$ 2.01
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.] Investment at DS0, DS1, or DS3 service equiv.]

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

BellcoreTM

LCAT Rel: 1.0.4

Issued: 07/31/95

LCAT Commands Description

This Command will allow the User -

EDIT To Enter Values with DIRECT Input on a cell by cell basis.

CLEAR To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items Description

This Equipment Item Represents -

Ofc Rept Bay A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.

Integrated DLC The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.

Universal DLC The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs:

COE Field Item 1 FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip. 2,3,4 & 6

REM Field Item 1 FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip. 2,3,4 & 6

COE Field Item 2 FITL Hubbed Arrangements, CO to HUB Span Equip, CO End. 1 & 5

REM Field Item 2 FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site. 1 & 5

REM Field Item 3 FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites. 1 & 5

REM Field Item 4 FITL Hubbed Arrangements, RING Span Equip, HUB Sites. 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*****

PRESS <ENTER> KEY TO RETURN TO THE MAIN MENU

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\LOADING		LOOP COST ANALYSIS TOOL		Belcore (F)
TABLE - ADDNL_INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE ISC		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:08
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment	1.0000	
Building	1.0000			
ALL Copper Cables, or		ALL Digital Loop Carrier Equip., or	0.7000	
Copper Feeder Cable	0.6000	CO DLC Channel Unit	0.7000	
Copper Distribution Cable	0.3500	REM DLC Channel Unit	0.7000	
Copper Entrance Cable	1.0000	CO DLC Multiplex System	0.7000	
Copper Building Cable	0.3500	REM DLC Multiplex System	0.7000	
Copper Building Terminal	0.3500	CO Digital Signal Crossconnect Bay	0.7000	
		REM Digital Signal Crossconnect Bay	0.7000	
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or	1.0000	
Fiber Feeder Cable	0.3900	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	1.0000	
Conduit	1.0000	RC Hut	1.0000	
		Comm. Svc. Cab.	1.0000	

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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.

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

***** 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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\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 - RESIDENCE ISDN		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:08																																																											
SEGMENT DISTRIBUTION FEEDER ② use <u>DEFAULT</u> POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table> CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>The Cable PFI is being Adjusted for DW ?</td> <td style="text-align: center;">NO</td> </tr> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </table> use <u>DEFAULT</u> ① for: CENT. OFC. ② REMOTE SITE LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </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 ALL ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or ALL ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or ALL ①	0.1127	0.1127	Digital Loop Carrier	0.1127	0.1127	Fiber Optic Mux	0.1127	0.1127
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 ALL ①	0.0056	0.0056																																																													
Digital Loop Carrier	0.0056	0.0056																																																													
Fiber Optic Mux	0.0056	0.0056																																																													
Other or ALL ①	0.1316	0.1316																																																													
Digital Loop Carrier	0.1316	0.1316																																																													
Fiber Optic Mux	0.1316	0.1316																																																													
Other or ALL ①	0.1127	0.1127																																																													
Digital Loop Carrier	0.1127	0.1127																																																													
Fiber Optic Mux	0.1127	0.1127																																																													

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

C:\123R24\LCATR095 SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)										
INPUT ~ PLANT_CHAR Sheet 1 / 5		LOOP FACILITY INPUT		LCAT Rel: 1.0.4										
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		ISSUED: 07/31/95										
		FOR		STUDY YR: 1996										
		INVESTMENT YEAR: 1996		TEST CASE: 1										
		LOOP STUDY YEAR: 1996		LAST UPDATE: 24-Oct-90										
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		TIME: 09:12										
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		ACTION SEGMENT <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </table>			PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR				
PRIMARY	STAR													
PRIMARY	NA													
DISTRIBUTION	STAR													
SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>TOTAL LOOP</td> <td>10541.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>2097.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>8144.0</td> </tr> <tr> <td>PRIMARY EXTENSION</td> <td></td> </tr> </table>			TOTAL LOOP	10541.0	DISTRIBUTION	2097.0	SUB-PRIMARY	300.0	PRIMARY	8144.0	PRIMARY EXTENSION	
TOTAL LOOP	10541.0													
DISTRIBUTION	2097.0													
SUB-PRIMARY	300.0													
PRIMARY	8144.0													
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 10541.0		LAST 1.0000 1.0000 Hint												

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT_CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENC						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:12		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 10x	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR096\SPAN

PLANT CHAR - WORKSHEET 3B
Sheet 3b / 5COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI

STATE: OHIO

LOOP COST ANALYSIS TOOL

Bellcore

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER
FORINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996LCAT Rel: 1.0.4
Issued: 07/31/95STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 09:12

SERVICE CLASS: BAND 2 - RESIDENC

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore [®]	
C:\123R24\LCATR096 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: 24-Oct-96			
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISDN						TIME: 09:12			
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	1	CHANNELS	
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	[SLM]	[E]	PER FO 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	
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO											
FOOTNOTES 1 Where Service Level Multiple EQUALS {1 for NARBAND, 25 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}. 2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 ->7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]}											
0											

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOLCAT Rel: 1.0.4
Issued: 07/31/95STUDY YR: 1998
TEST CASE: 1
LAST UPDATE: 24-Oct-98
TIME: 29:12

WORKSHEET DS

SELECT	DIGITAL SIGNAL TABLE (digsig.tbl)	HIERARCHY	BNDWDTH	DS1MULT	DS3MULT	VEG	MEDIA
0							
1		DS1	1.5 Mbps	1	0.04	24	BIDIR.2WCU.CA
2	MODE3	DS1	1.5 Mbps	1	0.04	24	UNDIR.2WCU.CA
3		VT1	1.5 Mbps	1	0.04	24	UNDIR.FIBER
4		VT2	2 Mbps	1	0		UNDIR.FIBER
5		E1	2 Mbps	1	0.06	30	BIDIR.2WCU.CA
6	MODE1	DSTC	3.2 Mbps	NA		48	BIDIR.2WCU.CA
7	MODE2	DSTC	3.2 Mbps	2	0.07	48	BIDIR.2WCU.CA
8		VT3	3.2 Mbps	2	0.07	56	UNDIR.FIBER
9		4 Mbps		2	0	60	
10		US2	6.3 Mbps	4	0.14	72	BIDIR.2WCU.CA
11	MODE4	US2	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	1	480	
15	X	DS3	45 Mbps	28	1	672	BIDIR.2WCU.CA
16	STST	OC1	50 Mbps	28	1	672	UNDIR.FIBER
17	X	90 Mbps			2	1344	UNDIR.FIBER
18		90 Mbps			2	1344	BIDIR.MW.RADIO
19		US4	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		T4M	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			8	5376	UNDIR.FIBER
28		OC9	466 Mbps		12	6048	UNDIR.FIBER
29		OC12	560 Mbps		12	7680	UNDIR.FIBER
30		565 Mbps			12	7680	UNDIR.FIBER
31		1.2 Gbps			24	15120	UNDIR.FIBER
32		1.7 Gbps			36	21168	UNDIR.FIBER
33		OC24	1.8 Gbps		24	24192	UNDIR.FIBER
34		2.5 Gbps			24	30528	UNDIR.FIBER
35							
36							
	0	1	2	3	4	5	6
	7						
	OFFSET						

CONFIDENTIAL
NOTICE: INFORMATION GIVEN
PRIOR TO RELEASE TO THE PUBLIC
PROVIDED BY BELL CO

PLANT CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

STUDY YR.: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 09:12

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

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

ERROR MESSAG 0

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

LCAT: 2324 LCATR0961SPAN		LOOP COST ANALYSIS TOOL				Bellcore [®]																																																																																																																																																																																																																																																														
PLANT CHAR. - WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		WORKSHEET SA				LCAT Rpt: T.U.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:12																																																																																																																																																																																																																																																														
Sub Feeder Allocation Table																																																																																																																																																																																																																																																																				
OFFSET 0 1 2 3 4 5 6 7 8 9 10 Sub Feeder Allocation Table length alloc																																																																																																																																																																																																																																																																				
cur lplgth = 10541 dcldepl = 18000 [B] distspa = 2097 nom_range = 10000 NO COLOCATED STOPS dstopo = BUS dstopo = STAF dstopo = BUS COLOCATED R1 AND C1 where dstopo = BUS dstopo = STAF dstopo = BUS prifeeder diff [M] = A - C																																																																																																																																																																																																																																																																				
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>[C]</th> <th>[D] = C - I</th> <th>[E]</th> <th>[F] = D - E</th> <th>[G]</th> <th>[H] = D - G</th> <th>[I]</th> <th>[J] = C - I</th> <th>[K]</th> <th>[L] = C - K</th> <th>[M] = A - C</th> </tr> </thead> <tbody> <tr><td>500</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>500</td><td>0</td><td>500</td><td>0</td><td>10541</td></tr> <tr><td>1000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1000</td><td>0</td><td>1000</td><td>0</td><td>10041</td></tr> <tr><td>2000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2000</td><td>0</td><td>2000</td><td>0</td><td>9541</td></tr> <tr><td>3000</td><td>903</td><td>903</td><td>0</td><td>903</td><td>0</td><td>3000</td><td>0</td><td>3000</td><td>0</td><td>8541</td></tr> <tr><td>4000</td><td>1903</td><td>1903</td><td>0</td><td>1903</td><td>0</td><td>4000</td><td>0</td><td>4000</td><td>0</td><td>7541</td></tr> <tr><td>5000</td><td>2903</td><td>2903</td><td>0</td><td>2903</td><td>0</td><td>5000</td><td>0</td><td>5000</td><td>0</td><td>6541</td></tr> <tr><td>6000</td><td>3903</td><td>3903</td><td>0</td><td>3903</td><td>0</td><td>6000</td><td>0</td><td>6000</td><td>0</td><td>5541</td></tr> <tr><td>7000</td><td>4903</td><td>4903</td><td>0</td><td>4903</td><td>0</td><td>7000</td><td>0</td><td>7000</td><td>0</td><td>4541</td></tr> <tr><td>8000</td><td>5903</td><td>5903</td><td>0</td><td>5903</td><td>0</td><td>8000</td><td>0</td><td>8000</td><td>0</td><td>3541</td></tr> <tr><td>9000</td><td>6903</td><td>6903</td><td>0</td><td>6903</td><td>0</td><td>9000</td><td>0</td><td>9000</td><td>0</td><td>2541</td></tr> <tr><td>10000</td><td>7903</td><td>7903</td><td>0</td><td>7903</td><td>0</td><td>10000</td><td>0</td><td>10000</td><td>0</td><td>1541</td></tr> <tr><td>11000</td><td>8903</td><td>8903</td><td>0</td><td>8903</td><td>0</td><td>11000</td><td>0</td><td>11000</td><td>0</td><td>541</td></tr> <tr><td>12000</td><td>9903</td><td>9903</td><td>0</td><td>9903</td><td>0</td><td>12000</td><td>0</td><td>12000</td><td>0</td><td>-459</td></tr> <tr><td>13000</td><td>10903</td><td>10903</td><td>0</td><td>10903</td><td>0</td><td>13000</td><td>0</td><td>13000</td><td>0</td><td>-1459</td></tr> <tr><td>14000</td><td>11903</td><td>11903</td><td>0</td><td>11903</td><td>0</td><td>14000</td><td>0</td><td>14000</td><td>0</td><td>-2459</td></tr> <tr><td>15000</td><td>12903</td><td>12903</td><td>0</td><td>12903</td><td>0</td><td>15000</td><td>0</td><td>15000</td><td>0</td><td>-3459</td></tr> <tr><td>16000</td><td>13903</td><td>13903</td><td>0</td><td>13903</td><td>0</td><td>16000</td><td>0</td><td>16000</td><td>0</td><td>-4459</td></tr> <tr><td>17000</td><td>14903</td><td>14903</td><td>0</td><td>14903</td><td>0</td><td>17000</td><td>0</td><td>17000</td><td>0</td><td>-5459</td></tr> <tr><td>18000</td><td>15903</td><td>7951.5</td><td>7951.5</td><td>0</td><td>15903</td><td>9000</td><td>9000</td><td>18000</td><td>0</td><td>-7459</td></tr> <tr><td>19000</td><td>16903</td><td>8451.5</td><td>8451.5</td><td>0</td><td>16903</td><td>9500</td><td>9500</td><td>19000</td><td>0</td><td>-8459</td></tr> <tr><td>20000</td><td>17903</td><td>8951.5</td><td>8951.5</td><td>0</td><td>17903</td><td>10000</td><td>10000</td><td>20000</td><td>0</td><td>-9459</td></tr> <tr><td>80000</td><td>77903</td><td>15903</td><td>62000</td><td>1000</td><td>75903</td><td>15903</td><td>64097</td><td>1000</td><td>0</td><td>-69459</td></tr> </tbody> </table>								[C]	[D] = C - I	[E]	[F] = D - E	[G]	[H] = D - G	[I]	[J] = C - I	[K]	[L] = C - K	[M] = A - C	500	0	0	0	0	0	500	0	500	0	10541	1000	0	0	0	0	0	1000	0	1000	0	10041	2000	0	0	0	0	0	2000	0	2000	0	9541	3000	903	903	0	903	0	3000	0	3000	0	8541	4000	1903	1903	0	1903	0	4000	0	4000	0	7541	5000	2903	2903	0	2903	0	5000	0	5000	0	6541	6000	3903	3903	0	3903	0	6000	0	6000	0	5541	7000	4903	4903	0	4903	0	7000	0	7000	0	4541	8000	5903	5903	0	5903	0	8000	0	8000	0	3541	9000	6903	6903	0	6903	0	9000	0	9000	0	2541	10000	7903	7903	0	7903	0	10000	0	10000	0	1541	11000	8903	8903	0	8903	0	11000	0	11000	0	541	12000	9903	9903	0	9903	0	12000	0	12000	0	-459	13000	10903	10903	0	10903	0	13000	0	13000	0	-1459	14000	11903	11903	0	11903	0	14000	0	14000	0	-2459	15000	12903	12903	0	12903	0	15000	0	15000	0	-3459	16000	13903	13903	0	13903	0	16000	0	16000	0	-4459	17000	14903	14903	0	14903	0	17000	0	17000	0	-5459	18000	15903	7951.5	7951.5	0	15903	9000	9000	18000	0	-7459	19000	16903	8451.5	8451.5	0	16903	9500	9500	19000	0	-8459	20000	17903	8951.5	8951.5	0	17903	10000	10000	20000	0	-9459	80000	77903	15903	62000	1000	75903	15903	64097	1000	0	-69459
[C]	[D] = C - I	[E]	[F] = D - E	[G]	[H] = D - G	[I]	[J] = C - I	[K]	[L] = C - K	[M] = A - C																																																																																																																																																																																																																																																										
500	0	0	0	0	0	500	0	500	0	10541																																																																																																																																																																																																																																																										
1000	0	0	0	0	0	1000	0	1000	0	10041																																																																																																																																																																																																																																																										
2000	0	0	0	0	0	2000	0	2000	0	9541																																																																																																																																																																																																																																																										
3000	903	903	0	903	0	3000	0	3000	0	8541																																																																																																																																																																																																																																																										
4000	1903	1903	0	1903	0	4000	0	4000	0	7541																																																																																																																																																																																																																																																										
5000	2903	2903	0	2903	0	5000	0	5000	0	6541																																																																																																																																																																																																																																																										
6000	3903	3903	0	3903	0	6000	0	6000	0	5541																																																																																																																																																																																																																																																										
7000	4903	4903	0	4903	0	7000	0	7000	0	4541																																																																																																																																																																																																																																																										
8000	5903	5903	0	5903	0	8000	0	8000	0	3541																																																																																																																																																																																																																																																										
9000	6903	6903	0	6903	0	9000	0	9000	0	2541																																																																																																																																																																																																																																																										
10000	7903	7903	0	7903	0	10000	0	10000	0	1541																																																																																																																																																																																																																																																										
11000	8903	8903	0	8903	0	11000	0	11000	0	541																																																																																																																																																																																																																																																										
12000	9903	9903	0	9903	0	12000	0	12000	0	-459																																																																																																																																																																																																																																																										
13000	10903	10903	0	10903	0	13000	0	13000	0	-1459																																																																																																																																																																																																																																																										
14000	11903	11903	0	11903	0	14000	0	14000	0	-2459																																																																																																																																																																																																																																																										
15000	12903	12903	0	12903	0	15000	0	15000	0	-3459																																																																																																																																																																																																																																																										
16000	13903	13903	0	13903	0	16000	0	16000	0	-4459																																																																																																																																																																																																																																																										
17000	14903	14903	0	14903	0	17000	0	17000	0	-5459																																																																																																																																																																																																																																																										
18000	15903	7951.5	7951.5	0	15903	9000	9000	18000	0	-7459																																																																																																																																																																																																																																																										
19000	16903	8451.5	8451.5	0	16903	9500	9500	19000	0	-8459																																																																																																																																																																																																																																																										
20000	17903	8951.5	8951.5	0	17903	10000	10000	20000	0	-9459																																																																																																																																																																																																																																																										
80000	77903	15903	62000	1000	75903	15903	64097	1000	0	-69459																																																																																																																																																																																																																																																										
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 ^{star} Equals CUR_LPLGTH - NOM_RANGE difference > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH ^{star} Equals CUR_LPLGTH - NOM_RANGE difference = > DLCDEPL, then CUR_SEGLGTH ^{star} 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.																																																																																																																																																																																																																																																																				

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

OHIO ONLY
3 Geographic Areas
ISDN

10/10/96 Revised

Band 1

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
1	0-18,000	8,298	1,390	9,688	7,007	971	7,977
2	# Of Entries	144			285		
3	18,001-INFINITY	17,880	2,925	20,805	19,201	2,119	21,320
4	# Of Entries	16			8		
5	Ratio						
6	0-18,000	0.8369			0.9378		
7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		

Band 2

8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.6524		
13	0-18,000	0.3165			0.3476		
14	18,001-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			47		
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		

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

A
B
C
D
E
F
GCA123R24\LCATR097\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORT**Bellicore** (R)LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:02COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT.: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - RESIDENCE ISC
TOTAL LOOP LENGTH: 26071 FEET

Loop Span Set Weighting: 1 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

PLANT NAME	SEG. NAME	PRIMARY	FEEDER	EXTENSION	SUB--	DISTRIBUTION	NETWORK	INTERFACE	TOTAL LOOP
EQPT	CODE								
PLANT	ITEM DESCRIPTION	SEG. LGTH.							
SHARED RESOURCES									
LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0742
BUILDING	10C	\$ 2.21	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.2056
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.25	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.2519
POLE LINE	1C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
DIRECT RESOURCES									
LAND	20C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 0.00	\$ 2.4513
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.00	\$ 6.71	\$ 0.00	\$ 0.00	\$ 6.7700
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.00	\$ 4.81	\$ 0.00	\$ 0.00	\$ 4.8200
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.00	\$ 0.67	\$ 0.00	\$ 0.00	\$ 0.7900
CO EQPT - LOW CAP TERM	257C	\$ 6.62	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6.6193
CO EQPT - LOW CAP CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.7851
CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.1818
CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.3302
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0815
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0754
CONNECTORS	57C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.60	\$ 0.00	\$ 0.00	\$ 1.6304
CONDUIT	4C	\$ 0.04	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.3170
SPAN SUMMARY		\$ 31.66	\$ 0.00	\$ 0.24	\$ 14.03	\$ 2.45			\$ 48.38
									\$ 48.38

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\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 2 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY INTRAST

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI			
BASIS	NETWORK	TEST CASE	1 LAST SAVE
FR / DS	FLAT RATE	#BANDS	0 17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1 16:41
CST METH	UN INCR	INV LEVEL	ANNGOST TIME

CONFIDENTIAL
.....your report is ready for viewing
**NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO**

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT DESIGN: 1 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - RESIDENCE ISD
TOTAL LOOP LENGTH: 26071 FEET

LCAT Rel: 1.0.4
Issued: 7/31/95

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:02

Circuit Design Mix: 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME
SEG. NAME
EQPT
CODE

PRIMARY

EXTENSION

SUB--

DISTRIBUTION NETWORK
INTERFACE

TOTAL
LOOP

WEIGHTED
TOTAL
LOOP

PLANT

ITEM DESCRIPTION

SHARED RESOURCES

LAND 20C \$ 0.06 \$ 0.00 \$ 0.00 \$ 0.06 \$ 0.06

BUILDING 10C \$ 1.82 \$ 0.00 \$ 0.00 \$ 1.82 \$ 1.82

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 \$ 0.06 \$ 0.00 \$ 0.00 \$ 0.06 \$ 0.06

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 \$ 0.00 \$ 0.00

INTRABLDG CABLE 52C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (COPPER) 22C \$ 1.12 \$ 0.06 \$ 6.71 \$ 7.89 \$ 7.89

BURIED CABLE (COPPER) 45C \$ 0.11 \$ 0.01 \$ 4.81 \$ 4.93 \$ 4.93

UNDERGROUND (CU) CA. 5C \$ 2.23 \$ 0.12 \$ 0.67 \$ 3.02 \$ 3.02

CO EQPT - LOW CAP TERM 257C \$ 9.17 \$ 0.00 \$ 0.00 \$ 9.17 \$ 9.17

CO EQPT - LOW CAP CHAN 257C \$ 16.79 \$ 0.00 \$ 0.00 \$ 16.79 \$ 16.79

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 \$ 0.27 \$ 0.01 \$ 1.60 \$ 1.88 \$ 1.88

CONDUIT 4C \$ 0.79 \$ 0.04 \$ 0.24 \$ 1.07 \$ 1.07

SPAN SUMMARY \$ 32.42 \$ 0.00 \$ 0.24 \$ 14.03 \$ 2.45 \$ 49.14 \$ 49.14

CIRCUIT DESIGN SUMMARY \$ 49.14

CONFIDENTIAL

NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCO

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

A B C D E F G		LOOP COST ANALYSIS TOOL						Bellicore (R)	
01		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY						LCAT Rel: 1.0.4	
02		COMPANY: CINCINNATI BELL TEL						Issued: 7/31/95	
03		CITY / AREA: CINCINNATI						STUDY YR: 1996	
04		STATE / PROV: OHIO						TEST CASE: 1	
05		JOB IDENT: CINCINNATI						DATE: 29-Jan-97	
06		CIRCUIT DESIGN: 2 CDLC						TIME: 09:02	
07		LOOP SPAN DIVISION: ALL LOOP SPANS							
08		SERVICE CLASS: BAND 2 - RESIDENCE ISC							
09		TOTAL LOOP LENGTH: 26071 FEET							
10	0	Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						TOTAL	WEIGHTED
11	1	PLANT NAME	FEEDER	SUB	DISTRIBUTION NETWORK	INTERFACE	LOOP	TOTAL LOOP	
12	2	SEG. NAME	PRIMARY	EXTENSION					
13	3	EQPT							
14	4	PLANT	CODE						
15	5	ITEM DESCRIPTION							
16	6	SHARED RESOURCES							
17	7	LAND	20C				\$0	\$0	
18	8	BUILDING	10C				\$0	\$0	
19	9	BLDG ENTRANCE CABLE	12C				\$0	\$0	
20	10	INTRABLDG CABLE	52C				\$0	\$0	
21	11	AERIAL CABLE (COPPER)	22C				\$0	\$0	
22	12	BURIED CABLE (COPPER)	45C				\$0	\$0	
23	13	UNDERGROUND (CU) CA.	5C				\$0	\$0	
24	14	CO EQPT - LOW CAP TERM	257C				\$0	\$0	
25	15	CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
26	16	CO EQPT - HI CAP TERM	857C				\$0	\$0	
27	17	CO EQPT - HI CAP CHAN	857C				\$0	\$0	
28	18	CO EQPT - ANALOG SW	77C				\$0	\$0	
29	19	CO EQPT - DIGITAL SW	377C				\$0	\$0	
30	20	AERIAL CABLE (FIBER)	822C				\$0	\$0	
31	21	BURIED CABLE (FIBER)	845C				\$0	\$0	
32	22	UNDERGROUND (FO) CA.	85C				\$0	\$0	
33	23	CONNECTORS	57C				\$0	\$0	
34	24	MISC. COM EQP & PWR	57C				\$0	\$0	
35	25	POLE LINE	1C				\$0	\$0	
36	26	CONDUIT	4C				\$0	\$0	
37	27						\$0	\$0	
38	28						\$0	\$0	
39	29	DIRECT RESOURCES							
40	30	LAND	20C				\$0	\$0	
41	31	BUILDING	10C				\$0	\$0	
42	32	BLDG ENTRANCE CABLE	12C				\$0	\$0	
43	33	INTRABLDG CABLE	52C				\$0	\$0	
44	34	AERIAL CABLE (COPPER)	22C				\$0	\$0	
45	35	BURIED CABLE (COPPER)	45C				\$0	\$0	
46	36	UNDERGROUND (CU) CA.	5C				\$0	\$0	
47	37	CO EQPT - P GAIN TERM	257C				\$0	\$0	
48	38	CO EQPT - P GAIN CHAN	257C				\$0	\$0	
49	39	CO EQPT - FO MUX TERM	857C				\$0	\$0	
50	40	CO EQPT - FO MUX CHAN	857C				\$0	\$0	
51	41	CO EQPT - ANALOG SW	77C				\$0	\$0	
52	42	CO EQPT - DIGITAL SW	377C				\$0	\$0	
53	43	AERIAL CABLE (FIBER)	822C				\$0	\$0	
54	44	BURIED CABLE (FIBER)	845C				\$0	\$0	
55	45	UNDERGROUND (FO) CA.	85C				\$0	\$0	
56	46	CONNECTORS	57C				\$0	\$0	
57	47	MISC. COM EQP & PWR	57C				\$0	\$0	
58	48	POLE LINE	1C				\$0	\$0	
59	49	CONDUIT	4C				\$0	\$0	
60	50						\$0	\$0	
61	51	SPAN SUMMARY					\$0	\$0	
62	52						\$0	\$0	
63	53	CIRCUIT DESIGN SUMMARY					\$0	\$0	
64	54						\$0	\$0	
65	55						\$0	\$0	

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A B C D E F G	LOOP COST ANALYSIS TOOL									
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY									
0	C:\123R24\LCATR097\RESULTS1									
1	OUTPUT - WORKSHEET D									
2	SHEET 3 of 10									
3	COMPANY: CINCINNATI BELL TEL									
4	CITY / AREA: CINCINNATI									
5	STATE / PROV: OHIO									
6	JOB IDENT: CINCINNATI									
7	CIRCUIT DESIGN: MELDED									
8	LOOP SPAN DIVISION: ALL LOOP									
9	SERVICE CLASS: BAND 2 - RESIDENCE ISD									
10	TOTAL LOOP LENGTH: 26071 FEET									
11	LCAT Rel: 1.0.4									
12	Issued: 7/31/95									
13	STUDY YR: 1996									
14	TEST CASE: 1									
15	RUN DATE: 29-Jan-97									
16	TIME: 09:02									
17	Technology Type Mix: 0.0000									
18	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
19	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK									
20	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE									
21	EQPT CODE									
22	PLANT									
23	ITEM DESCRIPTION									
24	SHARED RESOURCES									
25	LAND	20C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.0000	
26	BUILDING	10C	\$ 1.82	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.82	\$ 0.0000	
27	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
28	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
29	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
30	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
31	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
32	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
33	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
35	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
36	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
37	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
38	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
39	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
40	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
41	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
42	MISC. COM EQP & PWR	57C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.0000	
43	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
44	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
45	DIRECT RESOURCES									
46	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
47	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
48	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000	
49	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
50	AERIAL CABLE (COPPER)	22C	\$ 1.12	\$ 0.00	\$ 0.06	\$ 6.71	\$ 0.00	\$ 7.89	\$ 0.0000	
51	BURIED CABLE (COPPER)	45C	\$ 0.11	\$ 0.00	\$ 0.01	\$ 4.81	\$ 0.00	\$ 4.93	\$ 0.0000	
52	UNDERGROUND (CU) CA.	5C	\$ 2.23	\$ 0.00	\$ 0.12	\$ 0.67	\$ 0.00	\$ 3.02	\$ 0.0000	
53	CO EQPT - P GAIN TERM	257C	\$ 9.17	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 9.17	\$ 0.0000	
54	CO EQPT - P GAIN CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.79	\$ 0.0000	
55	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
56	CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
57	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
58	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
59	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
60	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
61	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
62	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
63	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
64	POLE LINE	1C	\$ 0.27	\$ 0.00	\$ 0.01	\$ 1.60	\$ 0.00	\$ 1.88	\$ 0.0000	
65	CONDUIT	4C	\$ 0.79	\$ 0.00	\$ 0.04	\$ 0.24	\$ 0.00	\$ 1.07	\$ 0.0000	
66	SPAN SUMMARY		\$ 32.42	\$ 0.00	\$ 0.24	\$ 14.03	\$ 2.45	\$ 49.14	\$ 0.00	
67	TECHNOLOGY DESIGN SUMMARY							\$ 49.14		

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A
B
C
D
E
F
G

C:\123R24\LCATR097\RESULTS1
OUTPUT - WORKSHEET D
SHEET 4 of 10

LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore

LCAT Rel: 1.0.4
Issued: 7/31/95

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

CIRCUIT DESIGN: 1 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - RESIDENCE ISC
TOTAL LOOP LENGTH: 26071 FEET

STUDY YR: 1998
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:02

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

TOTAL WEIGHTED

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

ITEM DESCRIPTION

SHARED RESOURCES

LAND	20C				\$0	\$0
BUILDING	10C				\$0	\$0
BLDG ENTRANCE CABLE	12C				\$0	\$0
INTRABLDG CABLE	52C				\$0	\$0
AERIAL CABLE (COPPER)	22C				\$0	\$0
BURIED CABLE (COPPER)	45C				\$0	\$0
UNDERGROUND (CU) CA.	5C				\$0	\$0
CO EQPT - LOW CAP TERM	257C				\$0	\$0
CO EQPT - LOW CAP CHAN	257C				\$0	\$0
CO EQPT - HI CAP TERM	857C				\$0	\$0
CO EQPT - HI CAP CHAN	857C				\$0	\$0
CO EQPT - ANALOG SW	77C				\$0	\$0
CO EQPT - DIGITAL SW	377C				\$0	\$0
AERIAL CABLE (FIBER)	822C				\$0	\$0
BURIED CABLE (FIBER)	845C				\$0	\$0
UNDERGROUND (FO) CA.	85C				\$0	\$0
CONNECTORS	57C				\$0	\$0
MISC. COM EQP & PWR	57C				\$0	\$0
POLE LINE	1C				\$0	\$0
CONDUIT	4C				\$0	\$0

DIRECT RESOURCES

LAND	20C				\$0	\$0
BUILDING	10C				\$0	\$0
BLDG ENTRANCE CABLE	12C				\$0	\$0
INTRABLDG CABLE	52C				\$0	\$0
AERIAL CABLE (COPPER)	22C				\$0	\$0
BURIED CABLE (COPPER)	45C				\$0	\$0
UNDERGROUND (CU) CA.	5C				\$0	\$0
CO EQPT - LOW CAP TERM	257C				\$0	\$0
CO EQPT - LOW CAP CHAN	257C				\$0	\$0
CO EQPT - HI CAP TERM	857C				\$0	\$0
CO EQPT - HI CAP CHAN	857C				\$0	\$0
CO EQPT - ANALOG SW	77C				\$0	\$0
CO EQPT - DIGITAL SW	377C				\$0	\$0
AERIAL CABLE (FIBER)	822C				\$0	\$0
BURIED CABLE (FIBER)	845C				\$0	\$0
UNDERGROUND (FO) CA.	85C				\$0	\$0
CONNECTORS	57C				\$0	\$0
MISC. COM EQP & PWR	57C				\$0	\$0
POLE LINE	1C				\$0	\$0
CONDUIT	4C				\$0	\$0

SPAN SUMMARY

\$0 \$0

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

\$0

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A
B
C
D
E
F
GCA123R24\LCATR097\RESULTS1
OUTPUT - WORKSHEET D
SHEET 5 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellcore**®LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:02COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - RESIDENCE ISD
TOTAL LOOP LENGTH: 28071 FEET

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

WEIGHTED

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

PLANT

ITEM DESCRIPTION

SHARED RESOURCES

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

DIRECT RESOURCES

30	LAND	20C			\$0	\$0
31	BUILDING	10C			\$0	\$0
32	BLDG ENTRANCE CABLE	12C			\$0	\$0
33	INTRABLDG CABLE	52C			\$0	\$0
34	AERIAL CABLE (COPPER)	22C			\$0	\$0
35	BURIED CABLE (COPPER)	45C			\$0	\$0
36	UNDERGROUND (CU) CA.	5C			\$0	\$0
37	CO EQPT - 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

SPAN SUMMARY

\$0

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

\$0

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\RESULTS1 OUTPUT - WORKSHEET D SHEET 6 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4 Issued: 7/31/95		Bellcore (R)	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 3 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 2 - RESIDENCE ISC TOTAL LOOP LENGTH: 26071 FEET					STUDY YR: 1996 TEST CASE: 1 RUN DATE: 29-Jan-97 TIME: 09:02			
Circuit Design Mix: 1.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL		
SEQ. NAME		PRIMARY EXTENSION		SUB- INTERFACE		LOOP		LOOP		
EQPT										
CODE										
PLANT										
ITEM DESCRIPTION										
SHARED RESOURCES										
LAND		20C	\$ 0.07		\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.07		
BUILDING		10C	\$ 2.21		\$ 0.00	\$ 0.00	\$ 2.21	\$ 2.21		
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	\$ 0.25		\$ 0.00	\$ 0.00	\$ 0.25	\$ 0.25		
POLE LINE		1C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
CONDUIT		4C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
DIRECT RESOURCES										
LAND		20C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
BUILDING		10C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
BLDG ENTRANCE CABLE		12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45		
INTRABLDG CABLE		52C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
AERIAL CABLE (COPPER)		22C	\$ 0.00		\$ 0.06	\$ 6.71	\$ 6.77	\$ 6.77		
BURIED CABLE (COPPER)		45C	\$ 0.00		\$ 0.01	\$ 4.81	\$ 4.82	\$ 4.82		
UNDERGROUND (CU) CA.		5C	\$ 0.00		\$ 0.12	\$ 0.67	\$ 0.79	\$ 0.79		
CO EQPT - LOW CAP TERM		257C	\$ 6.62		\$ 0.00	\$ 0.00	\$ 6.62	\$ 6.62		
CO EQPT - LOW CAP CHAN		257C	\$ 16.79		\$ 0.00	\$ 0.00	\$ 16.79	\$ 16.79		
CO EQPT - HI CAP TERM		857C	\$ 2.18		\$ 0.00	\$ 0.00	\$ 2.18	\$ 2.18		
CO EQPT - HI CAP CHAN		857C	\$ 3.33		\$ 0.00	\$ 0.00	\$ 3.33	\$ 3.33		
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	\$ 0.08		\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.08		
BURIED CABLE (FIBER)		845C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		
UNDERGROUND (FO) CA.		85C	\$ 0.08		\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.08		
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	\$ 0.02		\$ 0.01	\$ 1.60	\$ 1.63	\$ 1.63		
CONDUIT		4C	\$ 0.04		\$ 0.04	\$ 0.24	\$ 0.32	\$ 0.32		
SPAN SUMMARY			\$ 31.66	\$ 0.00	\$ 0.24	\$ 14.03	\$ 2.45	\$ 48.38	\$ 48.38	

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore (R)	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 7 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISD		RUN DATE: 29-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 26071 FEET		TIME: 09:02			
Circuit Design Mix: 10.0000 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	TOTAL LOOP
	EQPT						
	PLANT						
	CODE						
	ITEM DESCRIPTION						
	SHARED RESOURCES						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	DIRECT RESOURCES						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0

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

A
B
C
D
E
F
GC:\123R24\LCATR097\RESULTS1
OUTPUT - WORKSHEET D
SHEET 8 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Belcore**COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 5 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - RESIDENCE ISD
TOTAL LOOP LENGTH: 26071 FEETLCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:02

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR097\RESULTS1 OUTPUT - WORKSHEET D SHEET 9 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: 6 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 2 - RESIDENCE ISC TOTAL LOOP LENGTH: 26071 FEET		STUDY YR: 1996 TEST CASE: 1 RUN DATE: 29-Jan-97 TIME: 09:02			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
	PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	TOTAL	
	SEG. NAME	PRIMARY	EXTENSION	SUB-	LOOP	LOOP	
	EQPT						
	CODE						
	PLANT						
	ITEM DESCRIPTION						
	<u>SHARED RESOURCES</u>						
	LAND	20C			\$0	\$0	
	BUILDING	10C			\$0	\$0	
	BLDG ENTRANCE CABLE	12C			\$0	\$0	
	INTRABLDG CABLE	52C			\$0	\$0	
	AERIAL CABLE (COPPER)	22C			\$0	\$0	
	BURIED CABLE (COPPER)	45C			\$0	\$0	
	UNDERGROUND (CU) CA.	5C			\$0	\$0	
	CO EQPT - LOW CAP TERM	257C			\$0	\$0	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$0	
	CO EQPT - HI CAP TERM	857C			\$0	\$0	
	CO EQPT - HI CAP CHAN	857C			\$0	\$0	
	CO EQPT - ANALOG SW	77C			\$0	\$0	
	CO EQPT - DIGITAL SW	377C			\$0	\$0	
	AERIAL CABLE (FIBER)	822C			\$0	\$0	
	BURIED CABLE (FIBER)	845C			\$0	\$0	
	UNDERGROUND (FO) CA.	85C			\$0	\$0	
	CONNECTORS	57C			\$0	\$0	
	MISC. COM EQP & PWR	57C			\$0	\$0	
	POLE LINE	1C			\$0	\$0	
	CONDUIT	4C			\$0	\$0	
	<u>DIRECT RESOURCES</u>						
	LAND	20C			\$0	\$0	
	BUILDING	10C			\$0	\$0	
	BLDG ENTRANCE CABLE	12C			\$0	\$0	
	INTRABLDG CABLE	52C			\$0	\$0	
	AERIAL CABLE (COPPER)	22C			\$0	\$0	
	BURIED CABLE (COPPER)	45C			\$0	\$0	
	UNDERGROUND (CU) CA.	5C			\$0	\$0	
	CO EQPT - LOW CAP TERM	257C			\$0	\$0	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$0	
	CO EQPT - HI CAP TERM	857C			\$0	\$0	
	CO EQPT - HI CAP CHAN	857C			\$0	\$0	
	CO EQPT - ANALOG SW	77C			\$0	\$0	
	CO EQPT - DIGITAL SW	377C			\$0	\$0	
	AERIAL CABLE (FIBER)	822C			\$0	\$0	
	BURIED CABLE (FIBER)	845C			\$0	\$0	
	UNDERGROUND (FO) CA.	85C			\$0	\$0	
	CONNECTORS	57C			\$0	\$0	
	MISC. COM EQP & PWR	57C			\$0	\$0	
	POLE LINE	1C			\$0	\$0	
	CONDUIT	4C			\$0	\$0	
	SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	
					\$0	\$0	

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A
B
C
D
E
F
G
 CN:23R24\LCATR097\RESULTS1
 OUTPUT - WORKSHEET D
 SHEET 10 of 10

LOOP COST ANALYSIS TOOL
 PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

 LCAT Ref: 1.0.4
 Issued: 7/31/95
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 29-Jan-97
 TIME: 09:02

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

 CIRCUIT DESIGN: MELDED FOMUX
 LOOP SPAN DIVISION: ALL LOOP SPANS
 SERVICE CLASS: BAND 2 - RESIDENCE ISD
 TOTAL LOOP LENGTH: 26071 FEET

Technology Type Mix : [1.0000]		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY	
	PLANT NAME	FEEDER		DISTRIBUTION NETWORK			TOTAL	WEIGHTED
	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE		LOOP	TOTAL
	EQPT							LOOP
	CODE							
PLANT								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.0742
BUILDING	10C	\$ 2.21	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.21	\$ 2.2056
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	\$ 0.25	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.25	\$ 0.2519
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.4513
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.06	\$ 6.71	\$ 0.00	\$ 6.77	\$ 6.7700
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 4.81	\$ 0.00	\$ 4.82	\$ 4.8200
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.67	\$ 0.00	\$ 0.79	\$ 0.7900
CO EQPT - LOW CAP TERM	257C	\$ 6.62	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6.62	\$ 6.6193
CO EQPT - LOW CAP CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.79	\$ 16.7851
CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.18	\$ 2.1818
CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.33	\$ 3.3302
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	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.0815
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.0754
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	\$ 0.02	\$ 0.00	\$ 0.00	\$ 1.63	\$ 0.00	\$ 1.63	\$ 1.6304
CONDUIT	4C	\$ 0.04	\$ 0.00	\$ 0.00	\$ 0.24	\$ 0.00	\$ 0.32	\$ 0.3170
SPAN SUMMARY		\$ 31.66	\$ 0.00	\$ 0.24	\$ 13.00	\$ 2.45	\$ 48.38	\$ 48.38
							\$ 48.38	

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 8/31/95

15:45

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFIN

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC.)
SERVICE CLASS: BAND 2 - RESIDENCE ISDN

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

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:56

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM - TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM - TABLE 4 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*fcdr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fcdr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
2646.0	AERIAL	0.620000	1640.5	0.042600	69.89		0.00	0.00	
CONSIDERS:	BURIED	0.330000	873.2	0.066800	58.33		0.00	0.00	
MELDED COPPER CABLE	UNDERGRND	0.050000	132.3	0.058000	7.67		0.00	0.00	
Check =		1.000000	2646.0						
OUTSIDE PLANT LOADINGS		(NOTE 4)							
DROP WIRE ADJUSTMENT:									
AERIAL CA. =	0.0000								
BURIED CA. =	0.0000								
UNDERGRND =	0.0000								
AIR DRYER LOADINGS:									
AERIAL CA. =	0.0000								
BURIED CA. =	0.0000								
UNDERGRND =	0.0000								
OTHER INVESTMENT									
inv / unit lgth:									
POLE LINE FACTOR (PLF) =	0.0000								
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =	\$ 50.52								
UG CONDUIT FACTOR (UCF) =	0.0000								
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =	\$ 11.32								
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)									

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

LOOP COST ANALYSIS TOOL

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

Facility Type: COPPER CABLE
Circuit Segment: DISTRIBUTION PLANT (NON-DIG, NON-COLLOD)

Company: CINCINNATI BELL TEL.
City / Area: CINCINNATI
State / Prov: OHIO

Service Class: BAND 2 - RESIDENCE ISDN

LCAT Release: 1.0.4
Issue Date: 8/31/95
Study Yr: 1996
Test Case: 1
Run Date: 29-Jan-97
Time: 08:56

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT		CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION	[F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED						1.0000		
BUILDING	10C	F	SHARED						1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT						1.0000		
INTRABLDG CABLE	52C	V	DIRECT						0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	69.89		1		\$ 70	0.3500		\$ 200
BURIED CABLE (COPPER)	45C	V	DIRECT	58.33		1		\$ 58	0.3500		\$ 167
UNDERGROUND (CU) CA.	5C	V	DIRECT	7.67		1		\$ 8	0.3500		\$ 22
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	50.52		1		\$ 51	1.0000		\$ 51
CONDUIT	4C	F	DIRECT	11.32		1		\$ 11	1.0000		\$ 11

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

\$ 450
\$ 450
distriby

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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24:LCATCALC.DIST
DIST_PLAT - WORKSHEET A
Sheet 3 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

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 - RESIDENCE ISDN

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:56

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 200	0.4033		\$ 80.53		\$ 6.71
BURIED CABLE (COPPER)	45C	1.0000		\$ 167	0.3467		\$ 57.78		\$ 4.81
UNDERGROUND (CU) CA.	5C	1.0000		\$ 22	0.3663		\$ 8.03		\$ 0.67
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2659				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE UNE	1C	1.0000		\$ 51	0.3807		\$ 19.23		\$ 1.60
CONDUIT	4C	1.0000		\$ 11	0.2521		\$ 2.48		\$ 0.24
TOTALS			\$ 0	\$ 450		\$ 0.00	\$ 168.42	\$ 0.00	\$ 14.03
				\$ 450			\$ 168.42		\$ 14.03

distshrinvs distdirinvs

distinvsy distinrc

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

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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATCALC.D ST
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 - RESIDENCE ISDN

Belcore (R)
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:56

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATCALC\DIST

DIST_PLNT - WORKSHEET B

Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

FACILITY TYPE: COOPER CABLE

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE ISDN

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 29-Jan-97

TIME: 08:56

PLANT ITEM	ACCT CODE	CAT. VARI	1996 UNIT INVESTMENT BY ACCOUNT		1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
			COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES
LAND	20C	F	SHARED				1.0000		
BUILDING	10C	F	SHARED				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000	
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			0.0000		
CONDUIT	4C	F	DIRECT				0.0000		

CONFIDENTIAL

NOTICE MUST BE GIVEN

PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCO

\$ 0

\$ 75

\$ 75

bottom

FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

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

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

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

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Bellcore[®]

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 2 - RESIDENCE ISDN

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:56

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

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

FOOTNOTES

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

CM:23R24/LCAT/CALC/DIST
DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE ISDN

Belcore (R)
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:56

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) = $\frac{\text{From length}}{\text{From invest.}}$ = $\frac{0.0000}{0.2630}$ = \$ 0.00

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO										Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 29-Jan-97 TIME: 08:56	
FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 2 - RESIDENCE ISDN											
PLANT ITEM		PLANT ACCT CODE	CAT. FIXED RESOURCE	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION		
			VARI ALLOCATION			SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
9	LAND	20C	F	SHARED				1.0000			
10	BUILDING	10C	F	SHARED				1.0000			
11	BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1	\$ 75	1.0000		\$ 75	
12	INTRABLDG CABLE	52C	V	DIRECT	0.00			0.3500			
13	AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00			0.3500			
14	BURIED CABLE (COPPER)	45C	V	DIRECT	0.00			0.3500			
15	UNDERGROUND (CU) CA.	5C	V	DIRECT				0.3500			
16	CO EQPT - P GAIN TERM	257C	F	DIRECT				0.7000			
17	CO EQPT - P GAIN CHAN	257C	V	DIRECT				0.7000			
18	CO EQPT - FO MUX TERM	857C	F	DIRECT				1.0000			
19	CO EQPT - FO MUX CHAN	857C	F	DIRECT				1.0000			
20	CO EQPT - ANALOG SW	77C	V	DIRECT				1.0000			
21	CO EQPT - DIGITAL SW	377C	V	DIRECT				1.0000			
22	AERIAL CABLE (FIBER)	822C	F	DIRECT				0.0000			
23	BURIED CABLE (FIBER)	845C	F	DIRECT				0.0000			
24	UNDERGROUND (FO) CA.	85C	F	DIRECT				0.0000			
25	CONNECTORS	57C	V	DIRECT				1.0000			
26	MISC. COM EQP & PWR	57C	V	SHARED				1.0000			
27	POLE LINE	1C	F	DIRECT	0.00			1.0000			
28	CONDUIT	4C	F	DIRECT				1.0000			
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(F) AND H(H') ARE CAUSED BY COMPUTER ROUNDING.										
49	NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.										
50	AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;										
51	CO EQPT - ESS = CONNECTORS + MISC. CP&E.										
52											
53											
54											
55											

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

\$ 75
 \$ 75
 bctinviy

CM123R24/LCAT/CALC/DIST
DIST_PLNT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore®

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 2 - RESIDENCE ISDN

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 05:56

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

CONFIDENTIAL
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC.
PROVIDED BY 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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\TIMO

C:\123R24\LCATCALC.DIST

DIST PLNT - REPORT 14A

Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOLOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYFACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT NON-DIG. NON-COLLOC
SERVICE CLASS: BAND 2 - RESIDENCE TSONBellcore®
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:58

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)
PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH. SEG. LGTH.		TOTAL AVG. WEIGHTED INVESTMENT
SHARED RESOURCES				2646
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 - P GAIN TERM	257C			\$ 0.00
CO EQPT - P GAIN CHAN	257C			\$ 0.00
CO EQPT - FO MUX TERM	857C			\$ 0.00
CO EQPT - FO MUX CHAN	857C			\$ 0.00
CO EQPT - ANALOG SW	77C			\$ 0.00
CO EQPT - DIGITAL SW	377C			\$ 0.00
AERIAL CABLE (FIBER)	822C			\$ 0.00
BURIED CABLE (FIBER)	845C			\$ 0.00
UNDERGROUND (FO) CA.	85C			\$ 0.00
CONNECTORS	57C			\$ 0.00
MISC. COM EQP & PWR	57C			\$ 0.00
POLE LINE	1C			\$ 0.00
CONDUIT	4C			\$ 0.00
DIRECT RESOURCES				
LAND	20C			\$ 0.00
BUILDING	10C			\$ 0.00
BLDG ENTRANCE CABLE	12C			\$ 0.00
INTRABLDG CABLE	52C			\$ 0.00
AERIAL CABLE (COPPER)	22C		\$ 6.71	\$ 6.71
BURIED CABLE (COPPER)	45C		\$ 4.81	\$ 4.81
UNDERGROUND (CU) CA.	5C		\$ 0.67	\$ 0.67
CO EQPT - P GAIN TERM	257C			\$ 0.00
CO EQPT - P GAIN CHAN	257C			\$ 0.00
CO EQPT - FO MUX TERM	857C			\$ 0.00
CO EQPT - FO MUX CHAN	857C			\$ 0.00
CO EQPT - ANALOG SW	77C			\$ 0.00
CO EQPT - DIGITAL SW	377C			\$ 0.00
AERIAL CABLE (FIBER)	822C			\$ 0.00
BURIED CABLE (FIBER)	845C			\$ 0.00
UNDERGROUND (FO) CA.	85C			\$ 0.00
CONNECTORS	57C			\$ 0.00
MISC. COM EQP & PWR	57C			\$ 0.00
POLE LINE	1C		\$ 1.60	\$ 1.60
CONDUIT	4C		\$ 0.24	\$ 0.24
SPAN SUMMARY				\$ 14.03
AVG. WTD. SPAN SUMMARY				\$ 14.03
NOTE: [sum(INV _{ACCT} BAND * MIX BAND)]				\$ 14.03

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT\CALC\CUTECH

RUN - SUB PRI

LAST UPDATE

28-Jan-97

15:46

LOOP COST ANALYSIS TOOL**Belcore⁽ⁿ⁾**

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINI

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123P24\LCATCALC\CUTTECH
SUB_PR: WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE'S SUB-PRIMARY
SERVICE CLASS: BAND 2 - RESIDENCE ISDN

Belcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:57

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CABLE 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]	A/R DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	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

inv / unit lath: inv rtn fctr: 0.000000 0.253000

POLE LINE FACTOR = \$ 0.44

POLE LINE INVESTMENT = (UTIL AERIAL INVEST x PLF)

UG CONDUIT FACTOR = 0.000000 0.516500

CONDUIT INVESTMENT = \$ 1.96

(UTIL UNDGRND INVEST x UCF)

MISC. COMMON EQPT. & POWER FACTOR = 0.112195

MCE&P INVESTMENT (CO CONN) 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 + 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 (MISC or MISCB)

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

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

CONFIDENTIAL
NO COPY MUST BE GIVEN
TO BE RELEASED TO PUBLIC
PROHIBITED TO PUBLIC

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore [®]	
ACCOUNT INVESTMENT WORKSHEET				CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS				LCAT Release: 1.0.4			
SUB PRI - WORKSHEET				FACILITY TYPE: COPPER CABLE				Issue Date: 7/31/95			
Sheet 2 of 3				CIRCUIT SEGMENT: [MELOD GAUGE/ST SUB-PRIMARY]				STUDY YR: 1996			
COMPANY: CINCINNATI BELL TEL.				SERVICE CLASS: BAND 2 - RESIDENCE ISDN				TEST CASE: 1			
CITY / AREA: CINCINNATI								RUN DATE: 29-Jan-97			
STATE / PROV: OHIO								TIME: 08:57			
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	1.04	1		\$ 1	0.6000		\$ 2
13	BURIED CABLE (COPPER)	45C	V	DIRECT	0.12	1		\$ 0	0.6000		\$ 0
14	UNDERGROUND (CU) CA.	5C	V	DIRECT	2.28	1		\$ 2	0.6000		\$ 4
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	0.44	1		\$ 0	1.0000		\$ 0
27	CONDUIT	4C	F	DIRECT	1.96	1		\$ 2	1.0000		\$ 2
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											

CONFIDENTIAL
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO \$0

culprity

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

0123R24\LCATCALC\CUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 2 - RESIDENCE / SDN

Bellcore (R)
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:57

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 2	0.4033		\$ 0.70		\$ 0.06
13 BURIED CABLE (COPPER)	45C	1.0000		\$ 0	0.3467		\$ 0.07		\$ 0.01
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 4	0.3663		\$ 1.39		\$ 0.12
15 CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
16 CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
17 CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
18 CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3881				
25 MISC. COM EQP & PWR	57C	1.0000			0.3881				
26 POLE LINE	1C	1.0000			\$ 0		\$ 0.17		\$ 0.01
27 CONDUIT	4C	1.0000			\$ 2		\$ 0.48		\$ 0.04
28									
29 SUBTOTALS			\$ 0	\$ 8			\$ 2.82	\$ 0.00	\$ 0.24
30									
31 TOTALS				\$ 8			\$ 2.82		\$ 0.24
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47 FOOTNOTES									
48 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
49 NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.									
50									
51									
52									
53									
54									
55									

culpinvsy

culpac

culpmrc

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

01123R24 LCATCALCICUTECH
SUB PRI - REPORT 14
Sheet 1 of 1

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

FACILITY SEGMENT: SUB-PRIMARY PLANT
SERVICE CLASS: BAND 2 - RESIDENCE ISDN

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 08:57

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT	BAND MIX	AVG. LGTH	SEGLGTH	1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	(SEE NOTE) TOTAL AVG. WEIGHTED
0					logic-14a	
1					0	
2					1.0000	
3						
4					26071	
5					300	
6						300
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATC\LC\CLPRGN
RUN - CDLC PLANT

LAST UPDATE

28-Jan-97

15:47

LOOP COST ANALYSIS TOOL

Bellcore

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

CONFIDENTIAL
NOTICE: INFORMATION BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore																	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4																	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95																	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996																	
FACILITY TYPE: COPPER DIG LOOP CKR										TEST CASE: 1																	
CIRCUIT DESIGN: T1C										DATE: 29-Jan-97																	
SERVICE CLASS: BAND 2 - RESIDENCE ISDN										TIME: 08:58 AM																	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI 26071 cur. lgh 300 outside lgh f = 0.125 pgtfactor																											
<table border="1"> <thead> <tr> <th rowspan="2">SEGMENT LENGTH IN FEET</th> <th rowspan="2">TYPE OF CABLE</th> <th rowspan="2">RELATIVE MIX OF TYPE OF PLANT</th> <th rowspan="2">EFFECTIVE LENGTH BY TYPE</th> <th rowspan="2">MELDED INVEST. PER UNIT FOOT</th> <th colspan="2">CABLE COMPONENTS (NOTE 5)</th> <th colspan="2">(NOTE 4)</th> <th colspan="2">(NOTE 3)</th> </tr> <tr> <th>CABLE INVESTMENT PER CHAN [E=C*D]</th> <th>WEIGHTED TERMINAL INVESTMENT [UI*DTC]</th> <th>AIR DRYER INVESTMENT PER PAIR [E*fcdr]</th> <th>DROP WIRE ADJUSTMENT PER PAIR [E*fcdr]</th> <th>WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]</th> </tr> </thead> </table>												SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF PLANT	EFFECTIVE LENGTH BY TYPE	MELDED INVEST. PER UNIT FOOT	CABLE COMPONENTS (NOTE 5)		(NOTE 4)		(NOTE 3)		CABLE INVESTMENT PER CHAN [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR [E*fcdr]	DROP WIRE ADJUSTMENT PER PAIR [E*fcdr]	WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]
SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF PLANT	EFFECTIVE LENGTH BY TYPE	MELDED INVEST. PER UNIT FOOT	CABLE COMPONENTS (NOTE 5)		(NOTE 4)		(NOTE 3)																		
					CABLE INVESTMENT PER CHAN [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR [E*fcdr]	DROP WIRE ADJUSTMENT PER PAIR [E*fcdr]	WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]																		
23125	AERIAL	0.290000	838.28	0.023800	\$ 19.95		\$ 0.00																				
ON	BURIED	0.020000	57.81	0.041000	\$ 2.37		\$ 0.00																				
24.00 GA. FACILITIES	UNDERGRD	0.690000	1994.53	0.022000	\$ 43.88		\$ 0.00																				
		1.000000																									
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST. / LOAD FACTORS TO AERIAL PFI: NA 0.0000 ADJUST. / LOAD FACTORS TO BURIED PFI: NA 0.0000 ADJUST. / LOAD FACTORS TO UGD PFI: NA 0.0000 DLC EQUIPMENT INVEST. (NOTE 2): INT DLC EQUIP INVEST. (CU COMUX) = intdlcco \$ 0.00 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 141.70 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdicco \$ 39.17 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdicrt \$ 141.70 DLC EQUIP INVEST. (CU LINE) = dlccol \$ 0.00																											
EQUIPMENT INVESTMENT LOADINGS INVST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127 MCE&P INVST. (CU REMMUX x MCEP) = \$ 55.28 MCE&P INVST. (CDLCMUX x MCEP) = \$ 1.81 MCE&P INVST. (CO CONN x MCEP) = \$ 0.00 OTHER INVESTMENT LAND FACTOR FOR DLC (LANDf rem) = 0.0056 LAND FACTOR FOR DLC (LANDf c.o.) = 0.0056 LAND INVST. (CU COMUX + MCEP) x LANDf = \$ 3.16 LAND INVST. ((CO CONN + MCEP) x LANDf) = \$ 0.00 BUILDING FACTOR FOR DLC (BLDGF rem) = 0.1316 BUILDING FACTOR FOR DLC (BLDGF c.o.) = 0.1316 BLDG INVST. (CDLCMUX + MCEP) x BLDGF = \$ 74.18 BLDG INVST. ((CO CONN + MCEP) x BLDGF) = \$ 0.00																											
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvt \$ 0.00 OTHER INVESTMENT POLE LINE FACTOR (PLf) = 0.0000 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 8.41 UGD CONDUIT FACTOR (UCf) = 0.0000 CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) = \$ 37.77																											
LOOP TOPOLOGY AVERAGE NUMBER OF HUBS: NA ADDITIONAL LENGTH OF RING OSP REQUIRED: NA MIX OF CENT. OFC. ANALOG INTFC: 0.0000 MIX OF CENT. OFC. DIGITAL INTFC: 1.0000 MIX OF UNIVERSAL DLC INTFC: 0.0400 MIX OF INTEGRATED DIGITAL INTFC: 0.9600																											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.																											

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA:23R24\LCATCALC\ICUPRGN	LOOP COST ANALYSIS TOOL		Bellcore (R)
COLC 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: 8/31/85
	FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY		STUDY YR: 1995
COMPANY: CINCINNATI BELL TEL	FACILITY TYPE: COPPER DIG LOOP CXR		TEST CASE: 1
CITY / AREA: OHIO	CIRCUIT DESIGN: 11C		DATE: 29-Jan-97
STATE / PROV: CINCINNATI	SERVICE CLASS: BAND 2 - RESIDENCE ISDN		TIME: 06:58 AM

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1995 UNIT INVESTMENTS 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	3.16	1	\$ 3		1.0000	\$ 3	
BUILDING	10C	F	SHARED	74.31	1	\$ 74		1.0000	\$ 74	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	19.95	1		\$ 20	0.6000		\$ 33
BURIED CABLE (COPPER)	45C	V	DIRECT	2.37	1		\$ 2	0.6000		\$ 4
UNDERGROUND (CU) CA.	5C	V	DIRECT	43.88	1		\$ 44	0.6000		\$ 73
CO EQPT - P GAIN TERM	257C	F	DIRECT	198.55	1		\$ 199	0.7000		\$ 284
CO EQPT - P GAIN CHAN	257C	V	DIRECT	363.30	1		\$ 363	0.7000		\$ 519
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	1.81	1	\$ 2		1.0000	\$ 2	
POLE LINE	1C	F	DIRECT	8.41	1			1.0000		
CONDUIT	4C	F	DIRECT	37.77	1			1.0000		
TOTALS										

CONFIDENTIAL
 NOTICE MUST BE GIVEN
 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO PUGO
 \$ 38 \$ 2
 \$ 79 \$ 959
 \$ 1,038
 FEEDITY

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\LCAT\CALC\CUPRGN			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: 1995	
CITY / AREA: OHIO			FACILITY TYPE: COPPER DIG LOOP CRR					TEST CASE: 1	
STATE / PROV: CINCINNATI			CIRCUIT DESIGN: T1 C					DATE: 29-Jan-97	
			SERVICE CLASS: BAND 2 - RESIDENCE ISDN					TIME: 08:58 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	\$ 3		0.2322	\$ 0.73		\$ 0.06	
BUILDING	10C	1.0000	\$ 74		0.2937	\$ 21.82		\$ 1.82	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 33	0.4033		\$ 13.41		\$ 1.12
BURIED CABLE (COPPER)	45C	1.0000		\$ 4	0.3467		\$ 1.37		\$ 0.11
UNDERGROUND (CU) CA.	5C	1.0000		\$ 73	0.3863		\$ 28.79		\$ 2.23
CO EQPT - P GAIN TERM	257C	1.0000		\$ 284	0.3881		\$ 110.08		\$ 9.17
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 519	0.3881		\$ 201.42		\$ 16.79
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000				
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000	\$ 2		0.3881	\$ 0.70			
POLE LINE	1C	1.0000		\$ 8	0.3807				\$ 0.27
CONDUIT	4C	1.0000		\$ 38	0.2521				\$ 0.79
TOTALS			\$ 79	\$ 959					\$ 30.48
				\$ 1,038					\$ 32.42
				FEED1SY					FEED1MRC

CONFIDENTIAL
NOTICE: NOT TO 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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
CDLG PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL.				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT				STUDY YR: 1996	
STATE / PROV: OHIO		CIRCUIT DESIGN: 1) COPPER DIG LOOP CDR				TEST CASE: 1	
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN				DATE: 29-Jan-97	
						TIME: 08:59 AM	
logc-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
BAND		MIX		0		(SEE NOTE)	
PLANT		ACCT		1.0000		TOTAL	
CODE		LGTH		26071		AVG. WEIGHTED	
SEGLGTH				23125		INVESTMENT	
PLANT ITEM						23125	
SHARED RESOURCES							
7	LAND	20C		\$ 0.06			\$ 0.06
8	BUILDING	10C		\$ 1.82			\$ 1.82
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		\$ 0.06			\$ 0.06
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		\$ 1.12			\$ 1.12
34	BURIED CABLE (COPPER)	45C		\$ 0.11			\$ 0.11
35	UNDERGROUND (CU) CA.	5C		\$ 2.23			\$ 2.23
36	CO EQPT - P GAIN TERM	257C		\$ 9.17			\$ 9.17
37	CO EQPT - P GAIN CHAN	257C		\$ 16.79			\$ 16.79
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		\$ 0.27			\$ 0.27
48	CONDUIT	4C	*****	\$ 0.79			\$ 0.79
50	SPAN SUMMARY			32.42	0.00	0.00	32.42
51	AVG. WTD. SPAN SUMMARY			32.42	0.00	0.00	
NOTE: [sum(INV _{ACCT} * MIX _{WTD})]							

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE

28-Jan-97

15:48

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 2 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY IN

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI			
BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKT	
CST METH	UN INCR	MIN LEVEL	ANNOUNC

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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: 31 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - RESID; SERVICE LEVEL: NARBAND										LAST RUN: 29-Jan-97	
										TIME: 08:59	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from star_tbl: 300 cur_sdrlgth 14748 cur_pnlgth SEGMENT LENGTH IN FEET fo3pri_seglgth [A] 23125 CO TO HUB LINK ON FIBER OPTIC FACILITIES UNDERGRND											
from dw_mix: f = 1979.04 wideqvmn EFFECTIVE LENGTH MLD CABLE SUBSET DESIGN INVEST. PER BY TYPE PAIR FOOT CA PLANT OF PLANT [B] [C=A*B/M] [D] 0.480000 5.61 0.193000 0.000000 0.00 0.269400 0.520000 6.08 0.182700 1.000000											
CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] WEIGHTED TERMINAL INVESTMENT [U]*OTC A/R DRYER INVESTMENT PER PAIR [E*factr] DROP WIRE ADJUSTMENT PER PAIR [E*factr] WEIGHTED DROP WIRE INVESTMENT PER PAIR [U*OTC] 1.05 0.00 0.00 0.00 1.11 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.) = \$ 7.79 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 61.57 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) = 0.0055 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR OTH (LANDfrem) = 0.0055 LAND FACTOR FOR OTH (LANDfrem) = 0.0055 LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0055 LAND FACTOR FOR OTH (LANDfc.o.) = 0.0055 LAND INVST. (DLC+MUX+MCEP) x LANDfc.o.) = \$ 0.43 LAND INVST. (DLC+MUX+MCEP) x LANDfrem) = \$ 3.40 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR DLC EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfc.o.) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o.) = \$ 10.12 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem) = \$ 80.00											
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_ \$ 141.70 \$ 348.82 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco_ \$ 39.17 \$ 361.90 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt_ \$ 141.70 \$ 348.82 FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco_ \$ 3.55 \$ 48.15 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort_ \$ 2.01 \$ 53.79											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = tpif_ 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.64 UNDERGROUND CONDUIT FACTOR (PLf) = fuct_ 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) = \$ 1.76											
LOOP TOPOLOGY STAR AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 0.0400 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.9600											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

LOOP COST ANALYSIS TOOL										Bellcore®	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - RES SERVICE LEVEL: NARBAND										LAST RUN: 29-Jan-97	
										TIME: 06:59	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
C:\123R24\LCAT\CALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 3 of 3											
PLANT / EV		PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
				SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset		SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset	
[PREVIOUS SHEET SUMMARY]		[L]		[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]	
9	LAND	20C	1.0000	\$ 4		0.2322	\$ 0.89		\$ 0.07		
10	BUILDING	10C	1.0000	\$ 90		0.2937	\$ 26.47		\$ 2.21		
11	BLDG ENTRANCE CABLE	12C	1.0000			0.3922					
12	INTRABLDG CABLE	52C	1.0000			0.3922					
13	AERIAL CABLE (COPPER)	22C	1.0000			0.4033					
14	BURIED CABLE (COPPER)	45C	1.0000			0.3467					
15	UNDERGROUND (CU) CA.	5C	1.0000			0.3663					
16	CO EQPT - LOW CAP TERM	257C	1.0000		\$ 205	0.3881		\$ 79.43		\$ 6.62	
17	CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 519	0.3881		\$ 201.42		\$ 16.79	
18	CO EQPT - HI CAP TERM	857C	1.0000		\$ 67	0.3881		\$ 26.18		\$ 2.18	
19	CO EQPT - HI CAP CHAN	857C	1.0000		\$ 103	0.3881		\$ 39.96		\$ 3.33	
20	CO EQPT - ANALOG SW	77C	1.0000			0.0000					
21	CO EQPT - DIGITAL SW	377C	1.0000			0.3458					
22	AERIAL CABLE (FIBER)	822C	1.0000		\$ 3	0.2983		\$ 0.96		\$ 0.08	
23	BURIED CABLE (FIBER)	845C	1.0000			0.2724					
24	UNDERGROUND (FO) CA.	85C	1.0000		\$ 3	0.2689		\$ 0.90		\$ 0.08	
25	CONNECTORS	57C	1.0000			0.3881					
26	MISC. COM EQP & PWR	57C	1.0000	\$ 8		0.3881	\$ 3.02		\$ 0.25		
27	POLE LINE	1C	1.0000		\$ 1	0.3607		\$ 0.25		\$ 0.02	
28	CONDUIT	4C	1.0000		\$ 2	0.2521		\$ 0.44		\$ 0.04	
TOTALS				\$ 102	\$ 903		\$ 1,005	\$ 879.95	\$ 0.25	\$ 31.86	
					feed3sy			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.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL				Belcore [®]
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				
FOR PRIMARY FEEDER PLANT				LCAT Rel: 1.0.4
FACILITY TYPE: FIBER IN THE LOOP				ISSUE DATE: 7/31/95
CIRCUIT DESIGN: 31 FOMUX TO HUB / REM.				STUDY YR: 1996
SERVICE CLASS: BAND 2 - RESID SERVICE LEVEL: NARBAND				TEST CASE: 1
				LAST RUN: 29-Jan-97
				TIME: 09:00
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)
data - 14a3				TOTAL
				AVG WEIGHTED
				INVESTMENT
				23125
SHARED RESOURCES				
LAND	20C	\$ 0.07		\$ 0.07
BUILDING	10C	\$ 2.21		\$ 2.21
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	\$ 0.25		\$ 0.25
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	\$ 6.62		\$ 6.62
CO EQPT - LOW CAP CHAN	257C	\$ 16.79		\$ 16.79
CO EQPT - HI CAP TERM	857C	\$ 2.18		\$ 2.18
CO EQPT - HI CAP CHAN	857C	\$ 3.33		\$ 3.33
CO EQPT - ANALOG SW	77C			\$ 0.00
CO EQPT - DIGITAL SW	377C			\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.08		\$ 0.08
BURIED CABLE (FIBER)	845C			\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.08		\$ 0.08
CONNECTORS	57C			\$ 0.00
MISC. COM EQP & PWR	57C			\$ 0.00
POLE LINE	1C	\$ 0.02		\$ 0.02
CONDUIT	4C	\$ 0.04		\$ 0.04
SPAN SUMMARY		31.66	0.00	0.00
AVG. WTD. SPAN SUMMARY		31.66	0.00	0.00
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]				0.00

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097.COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore^(R)TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENTCOMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 09:51

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

FOOTNOTES

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

CONFIDENTIAL
 NOT TO BE RELEASED TO PUBLIC
 PRIOR TO REVIEW BY PUCO
 PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN

Bellcore^(R)

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

CONFIDENTIAL
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\COSTMETH

LOOP COST ANALYSIS TOOL

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

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 09:51

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

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

FOOTNOTES

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

CONFIDENTIAL
 MUST BE RELEASED TO PUCO
 PRIOR TO RELEASE TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR097\COSTMETH

TABLE - COST_METH

Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

CONFIDENTIAL
 NO INFORMATION IS TO BE GIVEN
 TO THE PUBLIC
 WITHOUT PERMISSION
 PROVIDED TO ES

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore®	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 29-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				24-Oct-96 09:53 AM	
STUDY NAME		1996 BAND 2 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 2 - RESIDENCE ISDN		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL		INVESTMENT YEAR	
				1996	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO			
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
Type Percent Mix:					
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT09\CRITERIA

INPUT - STUDY SETUP

Sheet 1 of 2

HELP SCREENBellcore[®]

LCAT Rel. 1.0.4

ISSUED: 3/31/95

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

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

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

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

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

CELL DENSITY Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERT, 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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		LCAT Rel. 1.0.4
SHEET 2 / 2		STUDY QUESTIONS		ISSUED: 3/31/95
		FOR		STUDY YEAR: 1996
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		TEST CASE: 11
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		LAST UPDATE: 24-Oct-96
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		TIME: 09:53 AM

<u>CONCERNING - SERVICE SPEC.</u> <u>OFFICE CHAR.</u> <u>RESULTS SPEC.</u>	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 ? 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 ? 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is(e.g.: RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.	VALID RESPONSE SET N or A <table border="1" style="display: inline-table;"><tr><td>NEW</td></tr></table> S or P <table border="1" style="display: inline-table;"><tr><td>SWITCHED</td></tr></table> N, W or B <table border="1" style="display: inline-table;"><tr><td>NARBAND</td></tr></table> 2 or 4 <table border="1" style="display: inline-table;"><tr><td>2</td></tr></table> 0 → 100 <table border="1" style="display: inline-table;"><tr><td>100</td></tr></table> 0 → 100 <table border="1" style="display: inline-table;"><tr><td>96</td></tr></table> 0 → 100 <table border="1" style="display: inline-table;"><tr><td></td></tr></table> e.g., 12000 <table border="1" style="display: inline-table;"><tr><td>18000</td></tr></table> Feet F or D <table border="1" style="display: inline-table;"><tr><td>FLAT RATE</td></tr></table> 1,2,3,4 <table border="1" style="display: inline-table;"><tr><td></td></tr></table> 0 → 5 <table border="1" style="display: inline-table;"><tr><td>0</td></tr></table> I, C or A <table border="1" style="display: inline-table;"><tr><td>COST</td></tr></table> T or M <table border="1" style="display: inline-table;"><tr><td>TOT INCR</td></tr></table> 0 <table border="1" style="display: inline-table;"><tr><td>RATES PLAN</td></tr></table>	NEW	SWITCHED	NARBAND	2	100	96		18000	FLAT RATE		0	COST	TOT INCR	RATES PLAN
NEW																
SWITCHED																
NARBAND																
2																
100																
96																
18000																
FLAT RATE																
0																
COST																
TOT INCR																
RATES PLAN																

CONFIDENTIAL

NOTICE MUST BE GIVEN
PRIOR TO RELEASE
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR097\DESIGN

LOOP COST ANALYSIS TOOL**Belcore**INPUT - LOOP DESIGN
Sheet 1 / 1CIRCUIT DESIGN REQUIREMENTS
CHARACTERISTICS
FORLCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 09:54COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - RESIDENCE ISDN**CIRCUIT DESIGN****Study Parameters**

Study Basis: NETWORK STUDY

Service Level: NARBAND

Loop Topology: STAR

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

(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES:

Proportion of Fiber Circuits

WITHOUT Fiber Hubs

0.0000

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech.

0.0000

Proportion of links on CDLC / MAR 0.0000

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

Weighting of Design #1

0.0000

Weighting of Design #2

0.0000

Weighting of Design #3

1.0000

Weighting of Design #4

NA 0.0000

Weighting of Design #5

NA 0.0000

Weighting of Design #6

NA 0.0000

1.0000 ChkSum

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES:

Proportion of Remote terminals

colocated at Customer Premises

0.0000

FOR COPPER DLC DESIGNS:

Weighting of Design #1

1.0000

Weighting of Design #2

NA 0.0000

1.0000 ChkSum

'NA' DENOTES THAT THE CIRCUIT DESIGN
PROBABLY DOES NOT APPLY TO THIS
SET OF STUDY PARAMETERS**CONFIDENTIAL**
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUC

C:\123R24\LCATR097\DESIGN

HELP SCREEN

Belcore

INPUT - LOOP_DESIGN

LCAT Rel :1.0.4

Sheet 1 of 1

Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

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

**SERVICE
SPECIFIC**

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

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

CONFIDENTIAL
COPIES MUST BE GIVEN
TO PUBLIC
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV SHEET 1 / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:57
FIBER CABLE INVESTMENT AND CHARACTERISTICS				
CABLE TYPE MIX (DISTRIBUTION TO CODE): Proportion of FIBER cable installations that are		FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	factors factors factors
		AERIAL	0.4800	0.0000
		BURIED	0.0000	0.0000
		UNDGRD	0.5200	0.0000
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 per fiber pair Foot per fiber pair Foot
		BURIED	\$ 0.2694	
		UNDGRD	\$ 0.1827	
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT Average Unit Investment for FIBER cable, Installed as				
		AERIAL	\$ 0.1930	per fiber pair Foot per fiber pair Foot per fiber pair Foot
		BURIED	\$ 0.2694	
		UNDGRD	\$ 0.1827	
(Fiber Hub to Remote Terminal) (Remote Terminal to Service Point)				

CONFIDENTIAL
 NOT TO BE GIVEN
 PRIOR TO RELEASE TO PUBLIC
 PROVIDED FOR

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL		LCAT Ref: 1.04
COMPANY: CINCINNATI BELL TEL.		FOR		Issued: 07/31/96
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		STUDY YR: 1996
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		TEST CASE: 11
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96
				TIME: 09:57

FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

Cable Sheath Sizes		CAPACITY	Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size		
			AERIAL	BURIED	UNDERGROUND
		INDEX			
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	\$	\$	\$

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\23R24\LCATR097\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - SFAN_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 - RESIDENCE ISDN				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:57	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS							
Cable Gauge Mix : The Proportion of Copper Cable that is		GUAGE 26 GA. 24 GA. 22 GA.	FEEDER SEGMENT 0.1500 0.8500 0.0000	DISTRIBUTION SEGMENT 0.1500 0.8500 0.0000	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge : Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y / N) N If not, Update		
Cable Type Mix, By Gauge : The Proportion of Copper Cable that is		GUAGE 26 GA. 24 GA. 22 GA.	FEEDER SEGMENT AERIAL 0.2900 BURIED 0.0200 UNDGRND 0.6900 AERIAL 0.2900 BURIED 0.0200 UNDGRND 0.6900 AERIAL 0.0000 BURIED 0.0000 UNDGRND 0.0000	DISTRIBUTION SEGMENT 0.6200 0.3300 0.0500 0.6200 0.3300 0.0500 0.0000 0.0000 0.0000	Average Unit Investment for Copper Cable Installed as 26 GA. AERIAL \$ 0.0119 \$ 0.0426 BURIED \$ 0.0205 \$ 0.0668 UNDGRND \$ 0.0440 \$ 0.0580 24 GA. AERIAL \$ 0.0119 \$ 0.0426 BURIED \$ 0.0205 \$ 0.0668 UNDGRND \$ 0.0440 \$ 0.0580 22 GA. AERIAL \$ 0.0000 \$ 0.0000 BURIED \$ 0.0000 \$ 0.0000 UNDGRND \$ 0.0000 \$ 0.0000		
NOTE : If the DROP WIRE resource investment is average values, it may be backed out through input to the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.							

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY		LOOP COST ANALYSIS TOOL										Bellcore	
TABLE - SPAN INV SHEET 2A / 4		LOOP FACILITY INPUT COPPER 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 2 - RESIDENCE ISDN										STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 09:57	
COPPER CABLE INVESTMENT REFERENCE TABLE													
Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size													
Cable Sheath Sizes	Capacity	Gauge	=>	26 GA.			24 GA.			22 GA.			
		INDEX		AERIAL	BURIED	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	\$										

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

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

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LCAT

INPUT SCREEN

Page -1-

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTION'S MELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 24-Oct-96
TIME: 09:57COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - RESIDENCE ISDN

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pft..ds)	CABLE GAUGE MIX (copper..dst)	ADJUSTED CABLE TYPE [D=A*C]	ADJUSTED PF [E=B*C]
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.620000	\$ 0.042600	0.1500	0.093000	\$ 0.006390
BURIED @ 26 GA.	0.330000	\$ 0.066800	0.1500	0.049500	\$ 0.010020
UNDGRND @ 26 GA.	0.050000	\$ 0.058000	0.1500	0.007500	\$ 0.008700
AERIAL @ 24 GA.	0.620000	\$ 0.042600	0.8500	0.527000	\$ 0.036210
BURIED @ 24 GA.	0.330000	\$ 0.066800	0.8500	0.280500	\$ 0.056780
UNDGRND @ 24 GA.	0.050000	\$ 0.058000	0.8500	0.042500	\$ 0.049300
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

--- TABLE 2 ---

--- TABLE 4 ---

Check = 1.000000

--- TABLE 6 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR :	[F=sum(D*TYPE)]		[G=sum(E*TYPE)]		[H=sum(F*TYPE)]	
AERIAL	0.620000		\$ 0.042600		\$ 0.452632	
BURIED	0.330000		\$ 0.066800		\$ 0.097368	
UNDERGRND	0.050000		\$ 0.058000		-	
Check =	1.000000				1.000000	

FOOTNOTES

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT		STUDY YR: 1996 TEST CASE: 1996 DATE: 1	
		SERVICE CLASS: BAND 2 - RESIDENCE/SDN		LAST UPDATE: 24-Oct-96 TIME: 09:57	
MELDED CABLE INVESTMENT PER PAIR FOOT					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fd)	PER FOOT INVESTMENT (pf...fd)	CABLE GAUGE MIX (copper...fd)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.290000	\$ 0.011900	0.1500	0.043500	\$ 0.001785
BURIED @ 26 GA.	0.020000	\$ 0.020500	0.1500	0.003000	\$ 0.003075
UNDGRND @ 26 GA.	0.690000	\$ 0.011000	0.1500	0.103500	\$ 0.001650
AERIAL @ 24 GA.	0.290000	\$ 0.011900	0.8500	0.246500	\$ 0.010115
BURIED @ 24 GA.	0.020000	\$ 0.020500	0.8500	0.017000	\$ 0.017425
UNDGRND @ 24 GA.	0.690000	\$ 0.011000	0.8500	0.586500	\$ 0.009350
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
Check = 1.00					
TABLE 2		TABLE 4		TABLE 6	
DATA DESC.	CABLE TYPE MIX RANGE NAME	PAIR / FOOT INVESTMENT RANGE NAME	PAIR / FOOT INVESTMENT RANGE NAME	PAIR / FOOT INVESTMENT RANGE NAME	PAIR / FOOT INVESTMENT RANGE NAME
CHARACTERISTICS FOR:	[F=sum(D*Type)]	[G=sum(E*Type)]	[H=sum(F*Type)]	[I=sum(G*Type)]	[J=sum(H*Type)]
AERIAL	0.290000	\$ 0.011900	\$ 0.011900	\$ 0.011900	\$ 0.011900
BURIED	0.020000	\$ 0.020500	\$ 0.020500	\$ 0.020500	\$ 0.020500
UNDERGRND	0.690000	\$ 0.011000	\$ 0.011000	\$ 0.011000	\$ 0.011000
Check = 1.000000		Check = 1.000000		Check = 1.000000	
FOOTNOTES					

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)	
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR: 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		LOOP STUDY YEAR: 1996		LAST UPDATE: 24-Oct-96	
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		TIME: 09:57	
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS					
FOR DLC SYSTEMS ON COPPER LOOPS					
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :				24
Pair Gain Factor :	(When Investment Utilities or Band Width Mix are NOT Used)				
	The Average Number Of Voice Grade Circuit Equivalents Per System :				96
	The Average Number Of Transmission Pairs Plus Protection Per System :				10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :				2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] :				0.125
NOTE: ① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.					

CONFIDENTIAL
 NOT TO BE GIVEN
 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATRD97\FACILITY
TABLE - SPAN INV
SHEET 3 / 4

HELP SCREEN

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

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

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

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

PRESS "ENTER" TO RETURN TO THE MAIN MENU

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

C:\123R24\LCATR097\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore®
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY/AREA: OHIO STATE/PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT		STUDY YR: 1996 TEST CASE: 1996 DATE: . LAST UPDATE: 24-Oct-96 TIME: 09:57
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT		
<u>DESCRIPTION</u>	<u>REPEATER SPACING</u>	<u>UNIT REPEATER INVESTMENT</u>	<u>REPEATER INVEST. PER FOOT</u>	
	[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		
<u>ADJUSTED PAIR / FOOT INVESTMENT</u>	<u>PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PFLCdg) (U)</u>	<u>REPEATER BY GAUGE (RPTR ccG) (E=C)</u>	<u>WORKING CHANNEL INVESTMENT / FOOT (ADLCFFlcgg) (F=D+E)</u>	<u>TABLE 4 WORKING CHANNEL INVESTMENT / FOOT (ADLCFFlcgg) (F=D+E)</u>
AERIAL @ 26 GA.	\$ 0.023800	\$ 0.000000	\$ 0.023800	\$ 0.023800
BURIED @ 26 GA.	\$ 0.041000	\$ 0.000000	\$ 0.041000	\$ 0.041000
UNDGRND @ 26 GA.	\$ 0.022000	\$ 0.000000	\$ 0.022000	\$ 0.022000
AERIAL @ 24 GA.	\$ 0.023800	\$ 0.000000	\$ 0.023800	\$ 0.023800
BURIED @ 24 GA.	\$ 0.041000	\$ 0.000000	\$ 0.041000	\$ 0.041000
UNDGRND @ 24 GA.	\$ 0.022000	\$ 0.000000	\$ 0.022000	\$ 0.022000
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
NOTES: ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.				

FOR DLC Gauge: 24.00

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATRO97\FACILITY

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - SPAN_INV
SHEET 4 / 4LOOP FACILITY INPUT
SERVICE ACCESS SEGMENTLCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-95
TIME: 09:57COM. COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE/PROV: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - RESIDENCE ISDN

SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS

AVERAGE UNIT MIX :

AVERAGE UNIT INVESTMENT :

The Average Number of Terminals in the Service Access Segment of a Loop -

Proportion of Loops that use.....

Aerial	0.001
Buried	0.001

Per Unit Installation.....

Aerial Termination	0
Buried Termination	0

The Average Drop Wire & Building Entrance Cable Installation -

Proportion of Loops that use..

Aerial Wire Drops	0.0000
Buried Wire Drops	0.0000
Bldg Entrance Cable	1.0000
Aerial Coax/Wire Drops	0.0000

Adjust Cable Pair Foot. Invest. for DTM Investment? (Y/N)

Per Unit Installation.....

	N
Aerial Wire Drops	\$ 0.00
Buried Wire Drops	\$ 0.00
Bldg Entrance Cable	\$ 75.00
Aerial Coax/Wire Drops	\$ 0.00

The Average Intra-building Cable Installation -

Proportion of Installations with Intra-building Cable

0.0000

Per Instn for a Intra-building Network Cable Pair

\$ 0.00

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996
CITY / AREA: CINCINNATI		STUDY YEAR: 1996		TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LAST UPDATE: 17-Jan-97 TIME: 15:22

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3458
AERIAL CABLE (FIBER)	1.0000	0.2983
BURIED CABLE (FIBER)	1.0000	0.2724
UNDERGROUND (FO) CA.	1.0000	0.2689
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

CONFIDENTIAL
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO BELL CO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\INVEST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - EQUIP_INV		DATA REFERENCE TABLE				LCAT Rel: 1.0.4	
Sheet 1 of 1		EQUIPMENT & OTHER INVESTMENTS				Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		FOR				STUDY YR: 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE LEVEL: NARBAND				LAST UPDATE: 24-Oct-96	
		SERVICE CLASS: BAND 2 - RESIDENCE ISDN				09:59	
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	\$ 361.90	\$ 39.17	\$ 348.82	\$ 141.70	
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement		\$ 49.18		\$ 2.98	\$ 53.70	\$ 2.01	
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 equi							

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR097\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

BellcoreTM

LCAT Rel: 1.0.4

Issued: 07/31/95

LCAT Commands Description

This Command will allow the User -

EDIT

To Enter Values with DIRECT Input on a cell by cell basis.

CLEAR

To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items Description

This Equipment Item Represents -

Ofc Rept Bay

A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.

Integrated DLC

The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.

Universal DLC

The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs :

COE Field Item 1

FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip.

2,3,4 & 6

REM Field Item 1

FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip.

2,3,4 & 6

COE Field Item 2

FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.

1 & 5

REM Field Item 2

FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.

1 & 5

REM Field Item 3

FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.

1 & 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 *****

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

PRESS <ENTER> KEY TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\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 2 - RESIDENCE ISC		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:01
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment		1.0000
Building	1.0000	ALL Digital Loop Carrier Equip., or		0.7000
ALL Copper Cables, or		CO DLC Channel Unit		0.7000
Copper Feeder Cable	0.6000	REM DLC Channel Unit		0.7000
Copper Distribution Cable	0.3500	CO DLC Multiplex System		0.7000
Copper Entrance Cable	1.0000	REM DLC Multiplex System		0.7000
Copper Building Cable	0.3500	CO Digital Signal Crossconnect Bay		0.7000
Copper Building Terminal	0.3500	REM Digital Signal Crossconnect Bay		0.7000
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or		1.0000
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit		1.0000
Fiber Distribution Cable		REM Fiber Optic Channel Unit		1.0000
Fiber Entrance Cable		CO Fiber Optic Multiplex System		1.0000
Fiber Building Cable		REM Fiber Optic Multiplex System		1.0000
Fiber Building Terminal		CO Lightguide Terminating Equipment		1.0000
		REM Lightguide Terminating Equipment		1.0000
Poles	1.0000	Remote Housing: CEV		1.0000
Conduit	1.0000	PC Hut		1.0000
		Comm. Svc. Cab.		1.0000

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore®**

LCAT Rel : 1.0.4
Issued : 3/31/95

NOTE :

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

CONFIDENTIAL
NOT TO BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]																																																																										
TABLE - ADDNL_INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENCE ISDN		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:01																																																																										
SEGMENT DISTRIBUTION FEEDER POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">②</th> <th style="text-align: center;">use DEFAULT</th> </tr> </thead> <tbody> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </tbody> </table> CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.5165</th> <th style="text-align: center;">0.5165</th> </tr> </thead> <tbody> <tr> <td>Copper Cable Conduit Investment Factor</td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </tbody> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>The Cable PFI is being Adjusted for DW ?</th> <th style="text-align: center;">NO</th> </tr> </thead> <tbody> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </tbody> </table> use DEFAULT ① for: CENT. OFC. REMOTE SITE ② LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.0056</th> <th style="text-align: center;">0.0056</th> </tr> </thead> <tbody> <tr> <td>Other or ALL ①</td> <td></td> <td></td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </tbody> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.1316</th> <th style="text-align: center;">0.1316</th> </tr> </thead> <tbody> <tr> <td>Other or ALL ①</td> <td></td> <td></td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </tbody> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">0.1127</th> <th style="text-align: center;">0.1127</th> </tr> </thead> <tbody> <tr> <td>Other or ALL ①</td> <td></td> <td></td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </tbody> </table>						②	use DEFAULT	Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment			Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment				0.5165	0.5165	Copper Cable Conduit Investment Factor			Copper Cable Conduit Unit Investment			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			The Cable PFI is being Adjusted for DW ?	NO	Aerial Cable		Buried Cable		Underground Cable			0.0056	0.0056	Other or ALL ①			Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056		0.1316	0.1316	Other or ALL ①			Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316		0.1127	0.1127	Other or ALL ①			Digital Loop Carrier	0.1127	0.1127	Fiber Optic Mux	0.1127	0.1127
	②	use DEFAULT																																																																												
Copper Cable Pole Investment Factor	0.2530	0.2530																																																																												
Copper Cable Pole Unit Investment																																																																														
Fiber Cable Pole Investment Factor	0.1965	0.1965																																																																												
Fiber Cable Pole Unit Investment																																																																														
	0.5165	0.5165																																																																												
Copper Cable Conduit Investment Factor																																																																														
Copper Cable Conduit Unit Investment																																																																														
Fiber Cable Conduit Investment Factor	0.5232	0.5232																																																																												
Fiber Cable Conduit Unit Investment																																																																														
The Cable PFI is being Adjusted for DW ?	NO																																																																													
Aerial Cable																																																																														
Buried Cable																																																																														
Underground Cable																																																																														
	0.0056	0.0056																																																																												
Other or ALL ①																																																																														
Digital Loop Carrier	0.0056	0.0056																																																																												
Fiber Optic Mux	0.0056	0.0056																																																																												
	0.1316	0.1316																																																																												
Other or ALL ①																																																																														
Digital Loop Carrier	0.1316	0.1316																																																																												
Fiber Optic Mux	0.1316	0.1316																																																																												
	0.1127	0.1127																																																																												
Other or ALL ①																																																																														
Digital Loop Carrier	0.1127	0.1127																																																																												
Fiber Optic Mux	0.1127	0.1127																																																																												

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

TABLE - ADDNL_INV
Sheet 2 of 2

HELP SCREEN**Bellcore** (R)

LCAT Rel : 1.0.4
Issued : 3/31/95

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

NOTES

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS. AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\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 - RESIDENCE ISDN		LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:05																		
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY																						
LOOP TOPOLOGY Loop FEEDER Network Configuration Is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td>26071.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>2648.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>800.0</td> </tr> <tr> <td>PRIMARY</td> <td>26125.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR	TOTAL LOOP	26071.0	DISTRIBUTION	2648.0	SUB-PRIMARY	800.0	PRIMARY	26125.0	PRIMARY-EXTENSION	
ACTION SEGMENT																						
PRIMARY	STAR																					
PRIMARY	NA																					
DISTRIBUTION	STAR																					
TOTAL LOOP	26071.0																					
DISTRIBUTION	2648.0																					
SUB-PRIMARY	800.0																					
PRIMARY	26125.0																					
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 26071.0		LAST 1.0000 1.0000 Hint																				

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\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.		FOR		STUDY YR : 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		LOOP STUDY YEAR : 1996		LAST UPDATE : 24-Oct-96	
		SERVICE CLASS : BAND 2 - RESIDENCE ISDN		TIME : 10:05	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
LOOP LENGTH 25071 FEET					
The diagram illustrates a network circuit path. It begins at a NETWORK INTERFACE, passes through a SERVICE ACCESS POINT (containing a DROP), and then through a SERVING AREA INTERFACE. The path continues through a DISTRIBUTION segment (2646 FEET) to a SUB-PRIMARY segment (300.0 FEET). This is followed by a FIBER DISTRIBUTION segment, which leads to a REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) and a REMOTE NODE (LOOP TRANSFER). The path then goes through an EXTENSION segment to a FIBER NODE, and finally through a PRIMARY segment (23125 FEET) to the END OFFICE. A FEEDER segment is also indicated. A large diagonal watermark reads: CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO.					

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATRC97 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 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 use conditions allows 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					

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\SPAN		LOOP COST ANALYSIS TOOL		Belcore (P)	
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 updated to each possibility. The SPAN LENGTHS input cells are rearranged to support the topology specified and only request the necessary data that is required.				
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****					
PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR097\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT				LCAT Rel: 1.0.4	
Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				Issued: 07/31/95	
COMPANY: 0		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 2 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96	
						TIME: 10:05	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT
CAPACITY [C]	idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E _U]
4 FIBER CABLE 2 pr			0.0		0.0		0.0
6 FIBER CABLE 3 pr			0.0		0.0		0.0
12 FIBER CABLE 6 pr			0.0		0.0		0.0
18 FIBER CABLE 9 pr			0.0		0.0		0.0
24 FIBER CABLE 12 pr			0.0		0.0		0.0
36 FIBER CABLE 18 pr			0.0		0.0		0.0
48 FIBER CABLE 24 pr			0.0		0.0		0.0
60 FIBER CABLE 30 pr			0.0		0.0		0.0
72 FIBER CABLE 36 pr			0.0		0.0		0.0
84 FIBER CABLE 42 pr			0.0		0.0		0.0
96 FIBER CABLE 48 pr			0.0		0.0		0.0
144 FIBER CABLE 72 pr			0.0		0.0		0.0
192 FIBER CABLE 96 pr			0.0		0.0		0.0
216 FIBER CABLE 108 pr			0.0		0.0		0.0
CUMULATIVE LENGTHS OF FEEDER:				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	

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR097\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 2 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96	
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET B		TIME : 10:05	

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
			TOTAL		TOTAL		TOTAL	

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\SPAN		LOOP COST ANALYSIS TOOL			Bellcore					
INPUT - PLANT CHAR.		LOOP FACILITY INPUT			LCAT Rel: 1.0.4					
Sheet 3a / 5		COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER			Issued: 07/31/95					
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996			STUDY YR: 1996					
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996			TEST CASE: 1					
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - RESIDENC			LAST UPDATE: 24-Oct-96					
					TIME: 10:05					
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 10X	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATTR097\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 35 Sheet 3b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1			
STATE: OHIO		SERVICE CLASS: BAND 2 - RESIDENC						LAST UPDATE: 24-Oct-96 TIME: 10:05			
NETWORK CIRCUIT LAYOUT STUDIES											
WORKSHEET B											
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.		
	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

CONFIDENTIAL
NOTICE: NOT TO BE RELEASED
PRIOR TO REVIEW BY PUBLIC

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/96 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 24-Oct-96 TIME : :0.05		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - RESIDENC								
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 10X	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0						0.0
										dstacprf 0.0
										dstbcpri 0.0
										dstucprf 0.0
										dstuopri 0.0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR097\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 4B Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER						LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1			
STATE: OHIO		SERVICE CLASS: BAND 2 - RESIDENC						LAST UPDATE: 24-Oct-96 TIME: 10:05			
NETWORK CIRCUIT LAYOUT STUDIES											
WORKSHEET B											
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.		
	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

NOTICE: THIS INFORMATION IS UNCLASSIFIED
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUBLIC

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore [®]	
C:\123R24\LCATR097\SPAN										LCAT Rel: 1.0.4	
INPUT - PLANT CHAR										Issued: 07/31/85	
Sheet 5 / 5										STUDY YR: 1996	
LOOP FACILITY INPUT										TEST CASE: 1	
DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX										LAST UPDATE: 24-Oct-96	
FOR										TIME: 10:05	
COMPANY: CINCINNATI BELL TEL										INVESTMENT YEAR: 1996	
CITY / AREA: CINCINNATI										LOOP STUDY YEAR: 1996	
STATE / PROV: OHIO										SERVICE CLASS: BAND 2 - RESIDENCE ISDN	
FIBER BANDWIDTH											
TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL											
										☐ BIDIRECTIONAL	
LEVEL OF SERVICE: NARBAND											
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE	PROTECTION	WEIGHTED	
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL		EQUIVALENT	
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE	n: 1	CHANNELS	
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	[SLM]	[E]	PER FO PAIR	
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04	
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04	

FOOTNOTES

1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BROADBAND} 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 4 PLUS 1 OVER PROT [E]}

CONFIDENTIAL
 NO COPY MUST BE GIVEN
 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO PUBLIC

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

LCAT Re: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-95

TIME: 10:05

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)						
SELECT	MODE	HIERARCHY	BNDWD	DS1MULT	DS3MULT	VGE MEDIA
0						
1						
2						
3	MODE3	DS111.5 Mbps		1	0.04	24 BIDIR.2WCU CA
4		DS111.5 Mbps		1	0.04	24 UNDIR.4WCU CA
5		VT11.5 Mbps		1	0.04	24 UNDIR.FIBER
6		VT12 Mbps		1	0	0 UNDIR.FIBER
7	MODE1	ET12 Mbps		1	0.08	30 BIDIR.2WCU CA
8		DSTC13.2 Mbps NA				48 BIDIR.2WCU CA
9	MODE2	DSTC13.2 Mbps		2	0.07	48 BIDIR.2WCU CA
10		VT13.2 Mbps		2	0.07	56 UNDIR.FIBER
11		4 Mbps		2	0	60
12		DS216.3 Mbps		4	0.14	72 BIDIR.2WCU CA
13	MODE4	DS216.3 Mbps NA			0	72 BIDIR.2WCU CA
14		VT16.3 Mbps		4	0.14	84 UNDIR.FIBER
15		E218 Mbps		4	0.25	120 BIDIR.2WCU CA
16		E3134 Mbps		16	1	480
17	X	DS3145 Mbps		28	1	672 BIDIR.2WCU CA
18	STS1	OC1150 Mbps		28	1	672 UNDIR.FIBER
19	X	90 Mbps		2	2	1344 UNDIR.FIBER
20		90 Mbps		2	2	1344 BIDIR.MW RADIO
21		DS41135 Mbps		3	3	2016 UNDIR.FIBER
22		135 Mbps		3	3	2016 BIDIR.MW RADIO
23		DS4NA1139 Mbps		3	3	2016 UNDIR.FIBER
24		E41140 Mbps		3	3	1920 UNDIR.FIBER
25		14M 139 Mbps		6	6	4032 BIDIR.COAX
26	X	PT40 139 Mbps		6	6	4032 BIDIR.COAX
27	X	OC3155 Mbps		31	31	2016 UNDIR.FIBER
28	X	180 Mbps		4	4	2688 UNDIR.FIBER
29		417 Mbps		9	9	6048 UNDIR.FIBER
30		OC9 466 Mbps		9	9	6048 UNDIR.FIBER
31		OC12 560 Mbps		12	12	7680 UNDIR.FIBER
32		565 Mbps		12	12	8064 UNDIR.FIBER
33		1.2 Gbps		24	24	16128 UNDIR.FIBER
34		1.7 Gbps		36	36	24192 UNDIR.FIBER
35		OC24 1.8 Gbps		24	24	24192 UNDIR.FIBER
36		2.5 Gbps		24	24	34560 UNDIR.FIBER
OFFSET						
0	1	2	3	4	5	

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

PLANT CHAR. - WORKSHEET F Sheet 1 of 1		LOOP LENGTH DEVELOPMENT WORKSHEET FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR.: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		LAST UPDATE: 24-Oct-96		TIME: 10:05	
STATE: OHIO		SERVICE CLASS: BAND 2 - RESIDENCE		WORKSHEET F			
[A]	DISTANCE INCREMENTS:	0 / 4 MILE BETWEEN BANDS		[R]	ROUTE TO AIR RATIO:	1.539947	
[B]	NUMBER OF BANDS:	0 TO BE CARRIED INTO THE STUDY		[K]	UNIT MILE / FEET CONSTANT:	1320	
BAND NUMBER	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]		
[C]							
1		0		0	0		
2		0		0	0		
3		0		0	0		
4		0		0	0		
5		0		0	0		

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

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

ERROR MESSAG 0

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT097.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 R#1: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:05
---	--	---

Sub Feeder Allocation Table

Sub Feeder Allocation Table										
cur lplgth	segment alloc									
cur lplgth = 26071	NO COLOCATED					COLOCATED RT AND CP where				
dlcdepl = 18000	dstopo = BUS					COLOCATED Fastopo = BUS				
[B]distspa = 2646	dstopo = STAF					dstopo = STAF				
nom_rangcur = 0	prifeeder					prifeeder				
	[C]	[D=C-I]	[E]	[F=D-E]	[G]	[H=D-G]	[I]	[J=C-I]	[K]	[L=C-K]
										[M=A-C]
500	0	0	0	0	0	0	500	0	500	0
1000	0	0	0	0	0	0	1000	0	1000	0
2000	0	0	0	0	0	0	2000	0	2000	0
3000	354	354	0	0	0	0	3000	0	3000	0
4000	1354	1354	0	0	0	0	4000	0	4000	0
5000	2354	2354	0	0	0	0	5000	0	5000	0
6000	3354	3354	0	0	0	0	6000	0	6000	0
7000	4354	4354	0	0	0	0	7000	0	7000	0
8000	5354	5354	0	0	0	0	8000	0	8000	0
9000	6354	6354	0	0	0	0	9000	0	9000	0
10000	7354	7354	0	0	0	0	10000	0	10000	0
11000	8354	8354	0	0	0	0	11000	0	11000	0
12000	9354	9354	0	0	0	0	12000	0	12000	0
13000	10354	10354	0	0	0	0	13000	0	13000	0
14000	11354	11354	0	0	0	0	14000	0	14000	0
15000	12354	12354	0	0	0	0	15000	0	15000	0
16000	13354	13354	0	0	0	0	16000	0	16000	0
17000	14354	14354	0	0	0	0	17000	0	17000	0
18000	15354	7677	7677	0	15354	9000	9000	0	18000	8071
19000	16354	8177	8177	0	16354	9500	9500	0	19000	7071
20000	17354	8677	8677	0	17354	10000	10000	0	20000	6071
80000	77354	15354	62000	1000	76354	15354	64846	1000	79000	-53929

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^{dst} Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{staf} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEGLGTH^{prcf} 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.

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

OHIO ONLY
3 Geographic Areas
ISDN

10/10/96 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	0-18,000	8,298	1,390	9,688	7,007	971	7,977
2	# Of Entries	144			285		
3	18,001-INFINITY	17,880	2,925	20,805	19,201	2,119	21,320
4	# Of Entries	16			8		
5	Ratio						
6	0-18,000	0.8369			0.9378		
7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		
Band 2							
8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.8524		
13	0-18,000	0.3165			0.3476		
14	18,001-INFINITY	1.0000			1.0000		
Band 3							
15	0-18,000	4,845	1,981	6,825	4,512	1,000	5,608
16	# Of Entries	46			30		
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			0.5795		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

CONFIDENTIAL
NOTICE: MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO FCC

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 3
RESIDENCE ISDN

MCI Depo.
EX. No. 38
DJH 11-26-97

INDEX

BAND 3

Residence ISDN

Copper Study -	Results.....	Tab 1
	Outputs.....	Tab 2
	Inputs.....	Tab 3
	Miscellaneous	Tab 4
Digital Loop Carrier Study -	Results	Tab 5
	Outputs.....	Tab 6
	Inputs.....	Tab 7
	Miscellaneous	Tab 8

A
B
C
D
E
F
GCM123R24\LCATR098\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT SUMMARY REPORT

Bellcore®

LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE ISC
TOTAL LOOP LENGTH: 6525 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:01Loop Span Set Weighting: 1 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

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

TOTAL

EQPT

LOOP

PLANT

CODE

ITEM DESCRIPTION

SEG.LGTH.

SHARED RESOURCES

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

DIRECT RESOURCES

30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 2.48	\$ 4.61	\$ 0.00	\$ 7.0900
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.18	\$ 4.73	\$ 0.00	\$ 4.9100
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.00	\$ 0.00	\$ 0.4400
37	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
40	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
49	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.16	\$ 0.00	\$ 0.00	\$ 0.1600

SPAN SUMMARY

\$ 0.00

\$ 0.00

\$ 3.85

\$ 10.44

\$ 2.45

\$ 16.74

\$ 16.74

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR098 RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 3 of 10							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: MELDED		CDLC		STUDY YR: 1996		
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP		SPANS		TEST CASE: 1		
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISD				RUN DATE: 29-Jan-97		
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6825 FEET				TIME: 10:01		
Technology Type Mix: 0.0000		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		WEIGHTED
SEG. NAME		PRIMARY		EXTENSION		INTERFACE		TOTAL
EQPT								LOOP
CODE								LOOP
PLANT								
ITEM DESCRIPTION								
SHARED 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	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 2.48	\$ 4.61	\$ 0.00	\$ 7.09	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.18	\$ 4.73	\$ 0.00	\$ 4.91	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.0000
CO EQPT - P GAIN TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - P GAIN CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.16	\$ 0.00	\$ 0.00	\$ 0.16	\$ 0.0000
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 0.00	\$ 10.44	\$ 2.45	\$ 16.74	\$ 0.00
TECHNOLOGY DESIGN SUMMARY							\$ 16.74	

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore [®]	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY							LCAT Rel: 1.0.4	
	C:\123R24\LCATR098\RESULTS1							Issued: 7/31/95	
	OUTPUT - WORKSHEET D							STUDY YR: 1998	
	SHEET 10 of 10							TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL							RUN DATE: 29-Jan-97	
	CITY / AREA: CINCINNATI							TIME: 10:01	
	STATE / PROV: OHIO								
	JOB IDENT: CINCINNATI								
	CIRCUIT DESIGN: MELDED FOMUX								
	LOOP SPAN DIVISION: ALL LOOP SPANS								
	SERVICE CLASS: BAND 3 - RESIDENCE ISD								
	TOTAL LOOP LENGTH: 5825 FEET								
0	Technology Type Mix: T.0000							TECHNOLOGY	
1	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							WEIGHTED	
2	PLANT NAME							TOTAL	
3	SEG. NAME							LOOP	
4	EQPT							TOTAL	
5	CODE							LOOP	
6	PLANT								
7	ITEM DESCRIPTION								
8	<u>SHARED RESOURCES</u>								
9	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
10	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
26	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
29	<u>DIRECT RESOURCES</u>								
30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 2.48	\$ 4.61	\$ 0.00	\$ 7.09	\$ 7.0900
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.18	\$ 4.73	\$ 0.00	\$ 4.91	\$ 4.9100
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.00	\$ 0.00	\$ 0.44	\$ 0.4400
37	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
40	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
49	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.16	\$ 0.00	\$ 0.00	\$ 0.16	\$ 0.1600
50	SPAN SUMMARY								
51									
52									
53									
54									
55									

CONFIDENTIAL
NOTICE: THIS INFORMATION IS GIVEN TO PUBLIC
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUBLIC

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
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55CA123R24/LCATR098/RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBelcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:01COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE ISD
TOTAL LOOP LENGTH: 6825 FEET

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

PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	TOTAL		
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	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	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 2.48	\$ 4.61	\$ 7.09	\$ 7.09
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.18	\$ 4.73	\$ 4.91	\$ 4.91
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.44	\$ 0.00	\$ 0.44	\$ 0.44
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	\$ 1.69	\$ 1.69
CONDUIT	4C	\$ 0.00	\$ 0.16	\$ 0.00	\$ 0.16	\$ 0.16
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 10.44	\$ 2.45	\$ 16.74
CIRCUIT DESIGN SUMMARY						\$ 16.74

CONFIDENTIAL
NOTICE: NOT BE GIVEN
PRIOR TO RELEASE TO PUC
PROVIDED TO PUC

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C: 123R24\LCATR098\RESULTS1 OUTPUT - WORKSHEET D SHEET 2 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					Bellcore® LCAT Rel: 1.0.4 Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 2 CDLC LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - RESIDENCE ISC TOTAL LOOP LENGTH: 6825 FEET		STUDY YR: 1996 TEST CASE: 1 DATE: 29-Jan-97 TIME: 10:01				
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						
	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP			
	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE			
	EQPT							
	PLANT CODE							
	ITEM DESCRIPTION							
	<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 - P GAIN TERM	257C				\$0	\$0	
	CO EQPT - P GAIN CHAN	257C				\$0	\$0	
	CO EQPT - FO MUX TERM	857C				\$0	\$0	
	CO EQPT - FO MUX CHAN	857C				\$0	\$0	
	CO EQPT - ANALOG SW	77C				\$0	\$0	
	CO EQPT - DIGITAL SW	377C				\$0	\$0	
	AERIAL CABLE (FIBER)	822C				\$0	\$0	
	BURIED CABLE (FIBER)	845C				\$0	\$0	
	UNDERGROUND (FO) CA.	85C				\$0	\$0	
	CONNECTORS	57C				\$0	\$0	
	MISC. COM EQP & PWR	57C				\$0	\$0	
	POLE LINE	1C				\$0	\$0	
	CONDUIT	4C				\$0	\$0	
	SPAN SUMMARY						\$0	\$0
	CIRCUIT DESIGN SUMMARY						\$0	\$0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\RESULTS1		LOOP COST ANALYSIS TOOL				Bellicore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Ref: 1.0.4	
SHEET 4 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		STUDY YR: 1998			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISC		RUN DATE: 29-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6825 FEET		TIME: 10:01			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-	
EQPT		INTERFACE				TOTAL	
CODE						LOOP	
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
LAND		20C				\$0	
BUILDING		10C				\$0	
BLDG ENTRANCE CABLE		12C				\$0	
INTRABLDG CABLE		52C				\$0	
AERIAL CABLE (COPPER)		22C				\$0	
BURIED CABLE (COPPER)		45C				\$0	
UNDERGROUND (CU) CA.		5C				\$0	
CO EQPT - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
DIRECT RESOURCES							
LAND		20C				\$0	
BUILDING		10C				\$0	
BLDG ENTRANCE CABLE		12C				\$0	
INTRABLDG CABLE		52C				\$0	
AERIAL CABLE (COPPER)		22C				\$0	
BURIED CABLE (COPPER)		45C				\$0	
UNDERGROUND (CU) CA.		5C				\$0	
CO EQPT - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
SPAN SUMMARY		\$0		\$0		\$0	
						\$0	

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\RESULTS1		LOOP COST ANALYSIS TOOL				Belcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Ref: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1998			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISC		RUN DATE: 29-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6825 FEET		TIME: 10:01			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP		
	SEG. NAME	PRIMARY	EXTENSION	SUB--	INTERFACE		
	EQPT						
	PLANT CODE						
	ITEM DESCRIPTION						
	SHARED RESOURCES						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	DIRECT RESOURCES						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A
B
C
D
E
F
GC:\123R24\LCATR098\RESULTS1
OUTPUT - WORKSHEET D
SHEET 6 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:01COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 3 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 3 - RESIDENCE ISC
TOTAL LOOP LENGTH: 6825 FEET

Circuit Design Mix: 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

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

DIRECT RESOURCES

LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 2.48	\$ 4.61	\$ 7.09
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.18	\$ 4.73	\$ 4.91
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.44	\$ 0.00	\$ 0.44
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.50	\$ 1.10	\$ 1.69
CONDUIT	4C	\$ 0.00	\$ 0.16	\$ 0.00	\$ 0.16

SPAN SUMMARY

\$ 0.00 \$ 0.00

\$ 12.44 \$ 2.45

\$ 16.74

\$ 16.74

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		LOOP COST ANALYSIS TOOL										Bellcore ^(R)	
C:\123R24\LCATR098\RESULTS1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
OUTPUT - WORKSHEET D												Issued: 7/31/95	
SHEET 7 of 10												STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX										TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS										RUN DATE: 29-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISD										TIME: 10:01	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6825 FEET											
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY										WEIGHTED TOTAL LOOP	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL LOOP							
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE					
EQPT													
CODE													
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			

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

C:\123R24\LCATR098\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore®	
OUTPUT - WORKSHEET D SHEET 8 of 10		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel : 1.0.4 Issued : 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN :		5 FOMUX		STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION : ALL LOOP		SPANS		TEST CASE : 1	
STATE / PROV : OHIO		SERVICE CLASS : BAND 3 -- RESIDENCE ISD				RUN DATE : 29-Jan-97	
JOB IDENT : CINCINNATI		TOTAL LOOP LENGTH :		6825 FEET		TIME : 10:01	
Circuit Design Mix : 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED TOTAL
	PLANT NAME	FEEDER	DISTRIBUTION NETWORK		LOOP	LOOP	
	EQPT	PRIMARY	EXTENSION	SUB-	INTERFACE		
	CODE						
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
LAND	20C					\$0	\$0
BUILDING	10C					\$0	\$0
BLDG ENTRANCE CABLE	12C					\$0	\$0
INTRABLDG CABLE	52C					\$0	\$0
AERIAL CABLE (COPPER)	22C					\$0	\$0
BURIED CABLE (COPPER)	45C					\$0	\$0
UNDERGROUND (CU) CA.	5C					\$0	\$0
CO EQPT - LOW CAP TERM	257C					\$0	\$0
CO EQPT - LOW CAP CHAN	257C					\$0	\$0
CO EQPT - HI CAP TERM	857C					\$0	\$0
CO EQPT - HI CAP CHAN	857C					\$0	\$0
CO EQPT - ANALOG SW	77C					\$0	\$0
CO EQPT - DIGITAL SW	377C					\$0	\$0
AERIAL CABLE (FIBER)	822C					\$0	\$0
BURIED CABLE (FIBER)	845C					\$0	\$0
UNDERGROUND (FO) CA.	85C					\$0	\$0
CONNECTORS	57C					\$0	\$0
MISC. COM EQP & PWR	57C					\$0	\$0
POLE LINE	1C					\$0	\$0
CONDUIT	4C					\$0	\$0
DIRECT RESOURCES							
LAND	20C					\$0	\$0
BUILDING	10C					\$0	\$0
BLDG ENTRANCE CABLE	12C					\$0	\$0
INTRABLDG CABLE	52C					\$0	\$0
AERIAL CABLE (COPPER)	22C					\$0	\$0
BURIED CABLE (COPPER)	45C					\$0	\$0
UNDERGROUND (CU) CA.	5C					\$0	\$0
CO EQPT - LOW CAP TERM	257C					\$0	\$0
CO EQPT - LOW CAP CHAN	257C					\$0	\$0
CO EQPT - HI CAP TERM	857C					\$0	\$0
CO EQPT - HI CAP CHAN	857C					\$0	\$0
CO EQPT - ANALOG SW	77C					\$0	\$0
CO EQPT - DIGITAL SW	377C					\$0	\$0
AERIAL CABLE (FIBER)	822C					\$0	\$0
BURIED CABLE (FIBER)	845C					\$0	\$0
UNDERGROUND (FO) CA.	85C					\$0	\$0
CONNECTORS	57C					\$0	\$0
MISC. COM EQP & PWR	57C					\$0	\$0
POLE LINE	1C					\$0	\$0
CONDUIT	4C					\$0	\$0
SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	\$0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

A B C D E F G		C:\123R24\LCATR098\RESULTS1 OUTPUT - WORKSHEET D SHEET 9 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore ^(R) LCAT Rel: 1.0.4 Issued: 7/31/95			
		COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 6 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - RESIDENCE ISC TOTAL LOOP LENGTH: 6825 FEET		STUDY YR: 1996 TEST CASE: 1 RUN DATE: 29-Jan-97 TIME: 10:01					
		Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED			
		PLANT NAME	SEG. NAME	PRIMARY	FEEDER	EXTENSION	SUB--	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	TOTAL LOOP
		PLANT	EQPT								
		ITEM DESCRIPTION	CODE								
		SHARED RESOURCES									
0		LAND	20C							\$0	\$0
1		BUILDING	10C							\$0	\$0
2		BLDG ENTRANCE CABLE	12C							\$0	\$0
3		INTRABLDG CABLE	52C							\$0	\$0
4		AERIAL CABLE (COPPER)	22C							\$0	\$0
5		BURIED CABLE (COPPER)	45C							\$0	\$0
6		UNDERGROUND (CU) CA.	5C							\$0	\$0
7		CO EQPT - LOW CAP TERM	257C							\$0	\$0
8		CO EQPT - LOW CAP CHAN	257C							\$0	\$0
9		CO EQPT - HI CAP TERM	857C							\$0	\$0
10		CO EQPT - HI CAP CHAN	857C							\$0	\$0
11		CO EQPT - ANALOG SW	77C							\$0	\$0
12		CO EQPT - DIGITAL SW	377C							\$0	\$0
13		AERIAL CABLE (FIBER)	822C							\$0	\$0
14		BURIED CABLE (FIBER)	845C							\$0	\$0
15		UNDERGROUND (FO) CA.	85C							\$0	\$0
16		CONNECTORS	57C							\$0	\$0
17		MISC. COM EQP & PWR	57C							\$0	\$0
18		POLE LINE	1C							\$0	\$0
19		CONDUIT	4C							\$0	\$0
20		DIRECT RESOURCES									
21		LAND	20C							\$0	\$0
22		BUILDING	10C							\$0	\$0
23		BLDG ENTRANCE CABLE	12C							\$0	\$0
24		INTRABLDG CABLE	52C							\$0	\$0
25		AERIAL CABLE (COPPER)	22C							\$0	\$0
26		BURIED CABLE (COPPER)	45C							\$0	\$0
27		UNDERGROUND (CU) CA.	5C							\$0	\$0
28		CO EQPT - LOW CAP TERM	257C							\$0	\$0
29		CO EQPT - LOW CAP CHAN	257C							\$0	\$0
30		CO EQPT - HI CAP TERM	857C							\$0	\$0
31		CO EQPT - HI CAP CHAN	857C							\$0	\$0
32		CO EQPT - ANALOG SW	77C							\$0	\$0
33		CO EQPT - DIGITAL SW	377C							\$0	\$0
34		AERIAL CABLE (FIBER)	822C							\$0	\$0
35		BURIED CABLE (FIBER)	845C							\$0	\$0
36		UNDERGROUND (FO) CA.	85C							\$0	\$0
37		CONNECTORS	57C							\$0	\$0
38		MISC. COM EQP & PWR	57C							\$0	\$0
39		POLE LINE	1C							\$0	\$0
40		CONDUIT	4C							\$0	\$0
41		SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

CONFIDENTIAL

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\RESULTS1
OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

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

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	29-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	09:48
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

NOTICE: your report is ready for viewing
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO FCC

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT\CALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

29-Jan-97

Issued: 8/31/95

08:57

DISTRIBUTION SEGMENT COST MODEL -- BASIC COPPER TECHNOLOGY

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

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
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

g t m o c

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55

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

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

Belcore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:16

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*fdtr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fdtr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
1981.0	AERIAL	0.580000	1149.0	0.041800	48.03		0.00	0.00	
CONSIDERS: MELED COPPER CABLE	BURIED	0.420000	832.0	0.068800	57.24		0.00	0.00	
	UNDERGRND	0.000000	0.0	0.000000	0.00		0.00	0.00	
Check =		1.000000	1981.0						
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 lch:	inv. / unit lch:					
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =			0.0000	0.2530					
UG CONDUIT FACTOR (UCF) =			0.0000	0.5183					
CONDUIT INVESTMENT (UTIL UNDERGRND INVEST 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)									

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL										Issue Date: 5/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-D.S. NON-COLLOC)										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RESIDENCE ISDN										RUN DATE: 29-Jan-97	
										TIME: 09:10	
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]	
8 LAND	20C	F	SHARED					1.0000			
9 BUILDING	10C	F	SHARED					1.0000			
10 BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
11 INTRABLDG CABLE	52C	V	DIRECT					0.3500			
12 AERIAL CABLE (COPPER)	22C	V	DIRECT	48.03	1		\$ 48	0.3500		\$ 137	
13 BURIED CABLE (COPPER)	45C	V	DIRECT	57.24	1		\$ 57	0.3500		\$ 164	
14 UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00				0.3500			
15 CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
16 CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
17 CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
18 CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
19 CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
20 CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
21 AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
22 BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
23 UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
24 CONNECTORS	57C	V	DIRECT					1.0000			
25 MISC. COME EQP & PWR	57C	V	SHARED					1.0000			
26 POLE LINE	1C	F	DIRECT	34.72	1			1.0000		\$ 35	
27 CONDUIT	4C	F	DIRECT	0.00				1.0000			
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											
49 FOOTNOTES											
50											
51											
52											
53											
54											
55											

CONFIDENTIAL

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

\$ 0 \$ 335
\$ 335
distinviy

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

G:\TIMOC

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

LOOP COST ANALYSIS TOOL

Bellcore[®]

PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC, NON-COLLECT)

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
RUN DATE : 29-Jan-97
TIME : 09:16

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

SERVICE CLASS : BAND 3 - RESIDENCE ISDN

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]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 137	0.4033		\$ 55.34		\$ 4.61
3 BURIED CABLE (COPPER)	45C	1.0000		\$ 184	0.3467		\$ 56.70		\$ 4.73
4 UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
15 CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
16 CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
17 CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
18 CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3881				
25 MISC. COM EQP & PWR	57C	1.0000			0.3881				
26 POLE LINE	1C	1.0000		\$ 35	0.3807		\$ 13.22		\$ 1.10
27 CONDUIT	4C	1.0000			0.2521				

TOTALS

dstshrinv dstdirinv
\$ 0 \$ 335
\$ 335
distnrsvy

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.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

g h m o c

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Bellicore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:16

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

POLE LINE FACTOR (PLF) = 0.0000

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore ^(R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
FACILITY TYPE: COPPER CABLE										Release: 1.0.4	
CIRCUIT SEGMENT: SERVICE ACCESS										STUDY YR: 1996	
SERVICE CLASS: BAND 3 - RESIDENCE ISDN										TEST CASE: 1	
										RUN DATE: 29-Jan-97	
										TIME: 09:16	
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE	1996 UNIT INVESTMENT BY ACCOUNT	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	SHARED RESOURCES	DIRECT RESOURCES	
				[F]	[G]	[H=F*G]	[I=F*G]	[J]	[K=H/J]	[L=I/J]	
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000		\$ 75	
INTRABLDG CABLE	52C	V	DIRECT	0.00				0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500			
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
CONNECTORS	57C	V	DIRECT					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

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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT\CALC\DIST DIST_PLNT - WORKSHEET B Sheet 3 of 3			LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET					Bellcore (R) LCAT Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 29-Jan-97 TIME: 09:16	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 3 - RESIDENCE: SDN						
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TP [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
9 LAND	20C	1.0000			0.2322				
10 BUILDING	10C	1.0000			0.2937				
11 BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
12 INTRABLDG CABLE	52C	1.0000			0.3922				
13 AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
14 BURIED CABLE (COPPER)	45C	1.0000			0.3467				
15 UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
16 CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
17 CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
18 CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
19 CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
20 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
21 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
22 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
23 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
24 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
25 CONNECTORS	57C	1.0000			0.3881				
26 MISC. COM EQP & PWR	57C	1.0000			0.3881				
27 POLE LINE	1C	1.0000			0.3807				
28 CONDUIT	4C	1.0000			0.2521				
TOTALS				\$ 75			\$ 29.42		\$ 2.45

bctshrinv bctdirinv

 \$ 0 \$ 75

 bctinvsv bctann bctmrc

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

47 FOOTNOTES
 48 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
 49 NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
 50 THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.
 51
 52
 53
 54
 55

LOOP COST ANALYSIS TOOL				Belcore (R)
BASIC INVESTMENT WORKSHEET				LCAT
DIST. PLNT - WORKSHEET B		FACILITY TYPE : COPPER CABLE		Release : 1.0.4
Sheet 1 of 3		CIRCUIT SEGMENT : SERVICE ACCESS		STUDY YR: 1996
COMPANY: CINCINNATI BELL TEL.		SERVICE CLASS : BAND 3 - RESIDENCE ISDN		TEST CASE: 1
CITY / AREA: CINCINNATI				RUN DATE: 29-Jan-97
STATE / PROV: OHIO				TIME: 09:18
TYPE OF PLANT	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) = $\frac{\text{from length}}{\text{from invest.}}$ = $\frac{0.0000}{0.25501}$				
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00				

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

LOOP COST ANALYSIS TOOL ACCOUNT INVESTMENT WORKSHEET

Belcore[®]

LCAT

Release: 1.0.4

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:16

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

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		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
					SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED				1.0000		
BUILDING	10C	F	SHARED				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT			\$ 75	1.0000		\$ 75
INTRABLDG CABLE	52C	V	DIRECT				0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT				0.3500		
BURIED CABLE (COPPER)	45C	V	DIRECT				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
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.									

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

LOOP COST ANALYSIS TOOL
 PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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

FACILITY TYPE: COPPER CABLE
 CIRCUIT SEGMENT: SERVICE ACCESS
 SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Release: 1.0.4
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 29-Jan-97
 TIME: 09:16

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL				Bellcore®	
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: 29-Jan-97	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-SEC-NON-COLLOC)				TIME: 09:18	
SERVICE CLASS: BAND 3 - RESIDENCE: SDN					
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
logic-14a				(See Note)	
0				TOTAL	
1.0000				AVG. WEIGHTED	
6825				INVESTMENT	
1981.0				1981	
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	\$ 4.61		\$ 4.61
34	BURIED CABLE (COPPER)	45C	\$ 4.73		\$ 4.73
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	\$ 1.10		\$ 1.10
48	CONDUIT	4C			\$ 0.00
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDE DDO TO PERS					
51	SPAN SUMMARY		\$ 10.44	\$ 0.00	\$ 0.00
52	AVG. WTD. SPAN SUMMARY		\$ 10.44	\$ 0.00	\$ 0.00
53	NOTE: [sum(INV _{ACCT} BAND * MIX BAND)]				
54					
55					

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C
F
E
E
D
G

C:\123R24\LCAT\CALC\DIST

DIST_PLANT - REPORT 14B

Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

LCAT

Release: 1.0.4

STUDY YR: 1998

TEST CASE: 1

RUN DATE: 29-Jan-97

TIME: 09:16

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

1995 UNIT MONTHLY RECURRING COST BY ACCOUNT

ALL

PLANT ITEM

PLANT
ACCT
CODEBAND
MIX
AVG.
LGTH.

SHARED RESOURCES

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

DIRECT RESOURCES

9	LAND	20C	
30	BUILDING	10C	
31	BLDG ENTRANCE CABLE	12C	2.45
32	INTRABLDG CABLE	52C	
33	AERIAL CABLE (COPPER)	22C	
34	BURIED CABLE (COPPER)	45C	
35	UNDERGROUND (CU) CA.	5C	
36	CO EQPT - P GAIN TERM	257C	
37	CO EQPT - P GAIN CHAN	257C	
38	CO EQPT - FO MUX TERM	857C	
39	CO EQPT - FO MUX CHAN	857C	
40	CO EQPT - ANALOG SW	77C	
41	CO EQPT - DIGITAL SW	377C	
42	AERIAL CABLE (FIBER)	822C	
43	BURIED CABLE (FIBER)	845C	
44	UNDERGROUND (FO) CA.	85C	
45	CONNECTORS	57C	
46	MISC. COM EQP & PWR	57C	
47	POLE LINE	1C	
48	CONDUIT	4C	

SPAN TOTAL

\$2.45

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATCALC\CUTECH

RUN - SUB PRI

LAST UPDATE

29-Jan-97

09:17

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) RESIDENCE ISDN STUDY 0 - 18000 FEET INTR

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

CONFIDENTIAL
NOT TO BE GIVEN TO PUBLIC
PRIOR TO PUCO

PROVIDED TO PUCO

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA:\123R24\LCAT\CALC\CUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Belcore[®]
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 09:43

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 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]
4844	AERIAL	0.810000	3923.54	0.011300	44.34		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.040000	193.76	0.018900	3.66		0.00	0.00	
CABLE	UNDERGRND	0.150000	726.50	0.012000	8.72		0.00	0.00	
CHECK =		1.000000							

23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

24 INVESTMENT PER CIRCUIT TERMINATION

25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00

26 $\frac{\text{inv} / \text{unit lgh}}{0.000000} \cdot \frac{\text{inv rtn fctr}}{0.253000}$

27 POLE LINE FACTOR = 0.000000

28 POLE LINE INVESTMENT = \$ 18.70

29 (UTIL AERIAL INVEST x PL)

30

31 UG CONDUIT FACTOR = 0.000000

32 CONDUIT INVESTMENT = \$ 7.51

33 (UTIL UNDGRND INVEST x UC)

34

35

36

37

38

39

40

41

42

43

44

45

46

47 FOOTNOTES

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

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

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

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

52

53

54

55

MISC. COMMON EQPT. & POWER FACTOR = 0.112700

MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00

LAND FACTOR = 0.00560

LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00

BUILDING FACTOR = 0.13160

BLDG NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00

PERCENT OF CO CONN AT ANALOG SWITCHES 100.0000

PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT\CALC\CUTCH
SUB_PRI - WORKSHEET
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: WELDED GAUGE/S/ SUB-PRIMARY

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Bellcore (R)

LCAT Release: 1.0.4

Issue Date: 7/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 29-Jan-97

TIME: 09:43

PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
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	44.34	1		\$ 44	0.6000		\$ 74
13 BURIED CABLE (COPPER)	45C	V	DIRECT	3.66	1		\$ 4	0.6000		\$ 6
14 UNDERGROUND (CU) CA.	5C	V	DIRECT	8.72	1		\$ 9	0.6000		\$ 15
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	18.70	1			1.0000		\$ 19
27 CONDUIT	4C	F	DIRECT	7.51	1			1.0000		\$ 8
TOTALS										\$ 121
										\$ 121

CONFIDENTIAL

NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCO

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.

Q TIRDC.

CA123R24 LCATCALCUTECH

SUB_PP1 - WORKSHEET

Sheet 1 of 3

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

LOOP COST ANALYSIS TOOL

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: WELDED GAUGES/SUB-PRIMARY

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Bellcore (TM)

LCAT Release: 1.0.4

Issue Date: 7/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 29-Jan-97

TIME: 09:43

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 74	0.4033		\$ 29.80		\$ 2.48
13 BURIED CABLE (COPPER)	45C	1.0000		\$ 6	0.3467		\$ 2.12		\$ 0.18
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 15	0.3663		\$ 5.32		\$ 0.44
15 CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
16 CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
17 CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
18 CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3881				
25 MISC. COM EQP & PWR	57C	1.0000			0.3881				
26 POLE LINE	1C	1.0000		\$ 19	0.3807		\$ 7.12		\$ 0.59
27 CONDUIT	4C	1.0000		\$ 8	0.2521		\$ 1.99		\$ 0.16
28									
29 SUBTOTALS			\$ 0	\$ 121		\$ 46.25	\$ 0.00		\$ 3.85
30									
31 TOTALS				\$ 121		\$ 46.25			\$ 3.85
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47 FOOTNOTES									
48									
49									
50									
51									
52									
53									
54									
55									

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT\CALC\OUT\TECH		LOOP COST ANALYSIS TOOL				Bellcore (R)	
SUB_PRI - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release : 1.0.4	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT : SUB-PRIMARY PLANT				Issue Date : 7/31/95	
CITY : AREA: CINCINNATI		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				STUDY YR: 1996	
STATE / PROV: OHIO						TEST CASE: 1	
						RUN DATE: 29-Jan-97	
						TIME: 09:43	
0		logic - 14a				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	
1		BAND 0				(SEE NOTE)	
2		PLANT MIX 1.0000				TOTAL	
3						AVG. WEIGHTED	
4		PLANT ITEM ACCT AVG. CODE LGTH 6825					
5		SEG. LGTH. 4844				4844	
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				\$ 2.48	
34		BURIED CABLE (COPPER) 45C				\$ 0.18	
35		UNDERGROUND (CU) CA. 5C				\$ 0.44	
36		CO EQPT - P GAIN TERM 257C				\$ 0.00	
37		CO EQPT - P GAIN CHAN 257C				\$ 0.00	
38		CO EQPT - FO MUX TERM 857C				\$ 0.00	
39		CO EQPT - FO MUX CHAN 857C				\$ 0.00	
40		CO EQPT - ANALOG SW 77C				\$ 0.00	
41		CO EQPT - DIGITAL SW 377C				\$ 0.00	
42		AERIAL CABLE (FIBER) 822C				\$ 0.00	
43		BURIED CABLE (FIBER) 845C				\$ 0.00	
44		UNDERGROUND (FO) CA. 85C				\$ 0.00	
45		CONNECTORS 57C				\$ 0.00	
46		MISC. COM EQP & PWR 57C				\$ 0.00	
47		POLE LINE 1C 0.5				\$ 0.59	
48		CONDUIT 4C 0.1				\$ 0.16	
49							
50		SPAN SUMMARY				\$ 3.85 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 3.85	
51							
52		AVG. WTD. SPAN SUMMARY				\$ 3.85 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 3.85	
53							
54		NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					
55							

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATC\LC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE

29-Jan-97

08:59

LOOP COST ANALYSIS TOOL

Belcore^(TM)

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

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

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR: DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: T1 C										DATE: 29-Jan-97	
SERVICE CLASS: BAND 3 - RESIDENCE (SON)										TIME: 09:17 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
6825 cur. lgth											
4844 cur. str - lgth											
f = 0.125 pgfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4)											
(NOTE 5)											
CABLE WEIGHTED AIR DRYER DROP WIRE DROP WIRE											
INVESTMENT TERMINAL INVESTMENT ADJUSTMENT INVESTMENT											
PER CHAN INVESTMENT PER PAIR PER PAIR PER PAIR											
[E=C*D] [U1*DTC] [E*ctr] [E*ctr] [U1*DTC]											
[A] [B] [C=A*B*f] [D]											
0 AERIAL 0.810000 0.00 0.022600 \$ 0.00 \$ 0.00											
CO TO RT LINK ON BURIED 0.040000 0.00 0.037800 \$ 0.00 \$ 0.00											
COPPER CABLE DLC 24.00 GA. FACILITIES UNDERGRND 0.150000 0.00 0.024000 \$ 0.00 \$ 0.00											
1.000000											
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC CEV FACILITIES = compgmvst \$ 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) = \$ 55.28											
MCE&P INVEST. (CDLCMUX x MCEP) = \$ 45.20											
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 = \$ 5.56											
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 = \$ 130.56											
BLDG INVEST. ((CO CONN + MCEP) x BLDGf) = \$ 0.00											
LOOP TOPOLOGY											
STAR											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON 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.											

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER D 3 LOOP CXR										TEST CASE: 1	
CIRCUIT DESIGN: C										DATE: 29-Jan-97	
SERVICE CLASS: BAND 3 - RESIDENCE ISDN										TIME: 09:17 AM	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UT. LINE FPL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED	5.56	0			1.0000			
BUILDING	10C	F	SHARED	130.69	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)	43C	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	236.15	0			0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT	710.72	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	45.20	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS											

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

FEED11Y \$0
 \$0
 \$0

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATCALC\COPPER			LOOP COST ANALYSIS TOOL						Belcore	
COLG PLANT - WORKSHEET Sheet 3 of 3			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-1 C SERVICE CLASS : BAND 3 - RESIDENCE ISDN						LCAT Release : 1.0.4 Issue Date : 8/31/95 STUDY YR : TEST CASE : DATE : 29-Jan-97 TIME : 09:17 AM	
COMPANY: CINCINNATI BELL TEL. CITY / AREA : OHIO STATE / PROV : CINCINNATI										
PLANT FEV	PLANT ACCT CODE	1996 TO 1996 TP [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]	
LAND	20C	1.0000			0.2322					
BUILDING	10C	1.0000			0.2937					
BLDG ENTRANCE CABLE	12C	1.0000			0.3922					
INTRABLDG CABLE	52C	1.0000			0.3922					
AERIAL CABLE (COPPER)	22C	1.0000			0.4033					
BURIED CABLE (COPPER)	45C	1.0000			0.3467					
UNDERGROUND (CU) CA.	5C	1.0000			0.3663					
CO EQPT - P GAIN TERM	257C	1.0000			0.3581					
CO EQPT - P GAIN CHAN	257C	1.0000			0.3581					
CO EQPT - FO MUX TERM	857C	1.0000			0.3581					
CO EQPT - FO MUX CHAN	857C	1.0000			0.3581					
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000					
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458					
AERIAL CABLE (FIBER)	822C	1.0000			0.2983					
BURIED CABLE (FIBER)	845C	1.0000			0.2724					
UNDERGROUND (FO) CA.	85C	1.0000			0.2689					
CONNECTORS	57C	1.0000			0.3581					
MISC. COM EQP & PWR	57C	1.0000			0.3581					
POLE LINE	1C	1.0000			0.3507					
CONDUIT	4C	1.0000			0.2521					
TOTALS			\$0	\$0						
					\$0					
					FEED1SY					

CONFIDENTIAL

NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCC

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: AN INVESTMENT--ONLY STUDY NEGATES ANNUAL COST COMPUTATION, HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

C:\123R24\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL		Bellcore	
CDLC PLANT - REPORT 1.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL.		Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT		STUDY YR: 1996	
STATE / PROV: OHIO		CIRCUIT DESIGN: COOPER DIG LOOP CXR		TEST CASE: 1	
		SERVICE CLASS: BAND 3 - RESIDENCE: SDN		DATE: 29-Jan-97	
				TIME: 09:18 AM	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT		(SEE NOTE)	
BAND		0		TOTAL	
PLANT MIX		1.0000		AVG. WEIGHTED	
ACCT AVG				INVESTMENT	
CODE LGTH		6825			
SEG LGTH		0		0	
SHARED RESOURCES					
1	LAND	20C			\$ 0.00
2	BUILDING	10C			\$ 0.00
3	BLDG ENTRANCE CABLE	12C			\$ 0.00
4	INTRABLDG CABLE	52C			\$ 0.00
5	AERIAL CABLE (COPPER)	22C			\$ 0.00
6	BURIED CABLE (COPPER)	45C			\$ 0.00
7	UNDERGROUND (CU) CA.	5C			\$ 0.00
8	CO EQPT - P GAIN TERM	257C			\$ 0.00
9	CO EQPT - P GAIN CHAN	257C			\$ 0.00
10	CO EQPT - FO MUX TERM	857C			\$ 0.00
11	CO EQPT - FO MUX CHAN	857C			\$ 0.00
12	CO EQPT - ANALOG SW	77C			\$ 0.00
13	CO EQPT - DIGITAL SW	377C			\$ 0.00
14	AERIAL CABLE (FIBER)	822C			\$ 0.00
15	BURIED CABLE (FIBER)	845C			\$ 0.00
16	UNDERGROUND (FO) CA.	85C			\$ 0.00
17	CONNECTORS	57C			\$ 0.00
18	MISC. COM EQP & PWR	57C			\$ 0.00
19	POLE LINE	1C			\$ 0.00
20	CONDUIT	4C			\$ 0.00
DIRECT RESOURCES					
21	LAND	20C			\$ 0.00
22	BUILDING	10C			\$ 0.00
23	BLDG ENTRANCE CABLE	12C			\$ 0.00
24	INTRABLDG CABLE	52C			\$ 0.00
25	AERIAL CABLE (COPPER)	22C			\$ 0.00
26	BURIED CABLE (COPPER)	45C			\$ 0.00
27	UNDERGROUND (CU) CA.	5C			\$ 0.00
28	CO EQPT - P GAIN TERM	257C			\$ 0.00
29	CO EQPT - P GAIN CHAN	257C			\$ 0.00
30	CO EQPT - FO MUX TERM	857C			\$ 0.00
31	CO EQPT - FO MUX CHAN	857C			\$ 0.00
32	CO EQPT - ANALOG SW	77C			\$ 0.00
33	CO EQPT - DIGITAL SW	377C			\$ 0.00
34	AERIAL CABLE (FIBER)	822C			\$ 0.00
35	BURIED CABLE (FIBER)	845C			\$ 0.00
36	UNDERGROUND (FO) CA.	85C			\$ 0.00
37	CONNECTORS	57C			\$ 0.00
38	MISC. COM EQP & PWR	57C			\$ 0.00
39	POLE LINE	1C			\$ 0.00
40	CONDUIT	4C			\$ 0.00
41	SPAN SUMMARY	0.00	0.00	0.00	0.00
42	AVG. WTD. SPAN SUMMARY	0.00	0.00	0.00	0.00
NOTE: [sum(INV _{ACCT} * MIX _{MANU})]					

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

C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE

29-Jan-97

09:01

LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 0 - 18000 FEET INTRAST

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	# BANDS	
SVC LEVEL	NARROW	# CKTS.	
CST METH	UN INCR	IN LEVEL	ANN CDST

NOTICE: THIS INFORMATION IS UNCLASSIFIED
PRIOR TO RELEASE TO THE PUBLIC
PROVIDED TO YOU ON REQUEST

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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 - RESID: SERVICE LEVEL: NARBAND										LAST RUN: 29-Jan-97	
										TIME: 09:18	
C:\23R24\LCATCALC\FOPRGN.WK1 FOMUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from stdr_tbl: 4544 cur_sfdlength 0 cur_prlgth from dw_mux: f = 1979.04 wtdeqvmn EFFECTIVE LENGTH MLD CABLE SUBSET DESIGN INVEST. PER BY TYPE PAIR FOOT CA. PLANT OF PLANT PAIR FOOT [B] [C=A*B/F] [D]											
SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT fo3pri_seglength [A] 0 AERIAL 0.810000 0.00 0.193000 CO TO HUB LINK ON BURIED 0.000000 0.00 0.000000 FIBER OPTIC FACILITIES UNDERGRND 0.190000 0.00 0.222900 1.000000											
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.) = \$ 51.18 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 61.57 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) = 0.0058 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0058 LAND FACTOR FOR OTH (LANDfrem) = 0.0058 LAND FACTOR FOR DLC EQP (LANDfrem) = 0.0058 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0058 LAND FACTOR FOR OTH (LANDfrem) = 0.0058 LAND INVST. (DLC+MUX+MCEP) x LANDfrem = \$ 2.83 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 3.40 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfrem = \$ 66.50 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 80.00											
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_ \$ 141.70 \$ 348.82 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco_ \$ 39.17 \$ 361.90 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt_ \$ 141.70 \$ 348.82 FIBER MUX EQUIP. INV. (FO COMUX) = hubrmxoco_ \$ 3.88 \$ 49.18 FIBER MUX EQUIP. INV. (FO RTMUX) = hubrmxort_ \$ 2.01 \$ 53.79											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = tpilf 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00 UNDERGROUND CONDUIT FACTOR (PLf) = fudf 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 0.00											
LOOP TOPOLOGY AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 1.0000 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B: FOR 4 WIRE SERVICES, TABLE 4 IS 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.											

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RESID SERVICE LEVEL: NAR BAND										LAST RUN: 29-Jan-97	
										TIME: 09:19	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT INVESTMENTS BY ACCOUNT											
1996 UNIT LOOP INVESTMENT EXCL UTILIZATION											
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	
		cmstart						utilstart			
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]	
LAND	20C	F	SHARED	6.23	0			1.0000			
BUILDING	10C	F	SHARED	146.50	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	180.57	0			0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	710.72	0			0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT	67.46	0			1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT	102.97	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	51.18	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS											
\$0 \$0 \$0 \$0 feed3ty											
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]											

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

LOOP COST ANALYSIS TOOL										Bellcore [®]	
ANNUAL COSTS WORKSHEET										LCAT Ref: C4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RE SERVICE LEVEL: NARBAND										LAST RUN: 29-Jan-97	
										TIME: 09:19	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
PLANT ACCT TO 1996 CODE TPI											
1996 UNIT LOOP INVESTMENT BY ACCOUNT 1996 UNIT ANNUAL COSTS BY ACCOUNT 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM tpistart [PREVIOUS SHEET SUMMARY [L]											
LAND 20C 1.0000 BUILDING 10C 1.0000 BLDG ENTRANCE CABLE 12C 1.0000 INTRABLDG CABLE 52C 1.0000 AERIAL CABLE (COPPER) 22C 1.0000 BURIED CABLE (COPPER) 45C 1.0000 UNDERGROUND (CU) CA. 5C 1.0000 CO EQPT - LOW CAP TERM 257C 1.0000 CO EQPT - LOW CAP CHAN 257C 1.0000 CO EQPT - HI CAP TERM 857C 1.0000 CO EQPT - HI CAP CHAN 857C 1.0000 CO EQPT - ANALOG SW 77C 1.0000 CO EQPT - DIGITAL SW 377C 1.0000 AERIAL CABLE (FIBER) 822C 1.0000 BURIED CABLE (FIBER) 845C 1.0000 UNDERGROUND (FO) CA. 85C 1.0000 CONNECTORS 57C 1.0000 MISC. COM EQP & PWR 57C 1.0000 POLE LINE 1C 1.0000 CONDUIT 4C 1.0000											
TOTALS \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0											
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.											

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

C:\123R24\LCATR098\ COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore®

TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENTCOMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 10:29

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND		WIDEBAND		BROADBAND	
		CATEGORY		CATEGORY		CATEGORY	
		SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT
LAND	LAND	20C	F SHARED	F SHARED	F SHARED	F SHARED	F SHARED
BUILDING	BLDG	10C	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
INTRABLDG CABLE	IBC	52C	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
BURIED CABLE (COPPER) ①	BCU	45C	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
CO EQPT - LOW CAP TERM	DLCT	257C	F 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
CO EQPT - HI CAP TERM	MUXT	857C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CO EQPT - HI CAP CHAN	MUXC	857C	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
CO EQPT - DIGITAL SW	DCOE	377C	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
BURIED CABLE (FIBER)	BFO	845C	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
CONNECTORS	CONN	57C	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
POLE LINE	POLE	1C	F DIRECT	F DIRECT	F DIRECT	F DIRECT	F DIRECT
CONDUIT	COND	4C	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(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.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREENBellcore^(R)

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATR098\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 10:29

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

[SWITCHED] SERVICES

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

FOOTNOTES

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

CONFIDENTIAL
 NOT BE GIVEN
 TO PUBLIC
 PRIOR TO 10/1/95
 PROVIDED TO PUCO

C:\123R24\LCATR098\COSTMETH

HELP SCREEN**Bellcore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

CONFIDENTIAL
NOT TO BE GIVEN
TO THE PUBLIC
PRIOR TO RELEASE
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24\LCATROSS CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore TM	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 29-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				24-Oct-96 10:31 AM	
STUDY NAME		1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 0 - 18000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 3 - RESIDENCE ISDN		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		CONFIDENTIAL	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:		NOTICE MUST BE GIVEN			
Type Percent Mix:		PRIOR TO RELEASE TO PUBLIC			
100 FIBER IN THE LOOP		PROVIDED TO PUCO			
0 COPPER DIG LOOP CXR					

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\CRITERIA
INPUT - STUDY SETUP
Sheet 1 of 2

HELP SCREEN

Bellcore®

LCAT Rel. 1.0.4
ISSUED: 3/31/95

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

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

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

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

FACILITY TYPE Select by entering the percent of technology mix, the Facility types in the loop network that support the 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

CONFIDENTIAL
NOTICE: THIS INFORMATION IS BE GIVEN
ONLY TO RELEASE TO PUBLIC
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CAT: 23R24\LCAT098\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 - RESIDENCE ISDN		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:31 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 Nor A S or P N, W or B 2 or 4	<table border="1" style="width: 100%;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> </table>	NEW	SWITCHED	NARBAND	2	
NEW									
SWITCHED									
NARBAND									
2									
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connections 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%;"> <tr><td>100</td></tr> <tr><td>0</td></tr> <tr><td>12000</td></tr> </table> Feet	100	0	12000		
100									
0									
12000									
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)		0 or 1 1, 2, 3, 4 1 to 999 0 → 999	<table border="1" style="width: 100%;"> <tr><td>FLAT RATE</td></tr> <tr><td>10</td></tr> <tr><td>1</td></tr> <tr><td>TOT INCR</td></tr> <tr><td>RATES PLAN</td></tr> </table>	FLAT RATE	10	1	TOT INCR	RATES PLAN
FLAT RATE									
10									
1									
TOT INCR									
RATES PLAN									

CONFIDENTIAL

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\CRITERIA

HELP SCREEN

Bellcore (R)

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\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 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96 TIME: 10:33

CIRCUIT DESIGN	
Study Parameters	
Study Basis: NETWORK STUDY	Service Level: NARBAND Loop Topology: STAR
CIRCUIT LAYOUT REQUIREMENTS - FOR FIBER HUBS & FEEDER EXTENSIONS	
(FIBER HUB TO REMOTE TERMINAL LINK)	
FACILITY INTERFACE SITES :	
Proportion of Fiber Circuits WITHOUT Fiber Hubs	0.0000
FACILITY TECHNOLOGIES:	
Of the Hubbed Circuits -	
Proportion of links on Fiber Tech.	0.0000
Proportion of links on CDLC / MAR	0.0000
FOR SERVICE ACCESS NETWORK	
(REMOTE TERMINAL TO CUSTOMER LINK)	
FACILITY INTERFACE SITES :	
Proportion of Remote terminals colocated at Customer Premises	0.0000
CIRCUIT DESIGN REQUIREMENTS - SELECTION & DISTRIBUTION:	
<u>Note</u>	
FOR FIBER DLC DESIGNS:	
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 PLS DESIGNS:	
Weighting of Design #1	1.0000
Weighting of Design #2	NA 0.0000
	1.0000 ChkSum

CONFIDENTIAL
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
NA DENOTES THAT THE CIRCUIT DESIGN
PROBABLY DOES NOT APPLY TO THIS
SET OF STUDY PARAMETERS.

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\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 DSL Xconn at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCAT098\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV SHEET 1/4		LOOP FACILITY INPUT FIBER CABLE DATA FOR		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: 24-Oct-96	TIME: 10:37
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		

FIBER CABLE INVESTMENT AND CHARACTERISTICS	
	FOR FEEDER SEGMENTS
CABLE TYPE MIX (DISTRIBUTION TO CODE) :	
Proportion of FIBER cable installations that are	
AERIAL	0.8100
BURIED	0.0000
UNDGRD	0.1900

	FOR DISTRIBUTION SEGMENTS
	0.0000
	0.0000
	0.0000

factors
factors
factors

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

Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) N [Required with INDIVIDUAL Mode]

If not, Update Unit Averages as Follows :

PRIMARY SEGMENT

Average Unit Investment for FIBER cable,
Installed as

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

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

FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT

Average Unit Investment for FIBER cable,
Installed as

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

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

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore
TABLE - SPAN INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL				LCAT Ver.: 1.0.4
COMPANY: CINCINNATI BELL TEL.		FOR				Issued: 07/31/95
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996				STUDY YR: 1996
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996				TEST CASE: 1
		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96
						TIME: 10:37
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	\$	\$	\$	\$

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

CA123R24 LCATR098\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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

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

***** 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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR099\FACILITY				LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - SPAN_INV SHEET 2 / 4				LOOP FACILITY INPUT COPPER CABLE DATA FOR				-CAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.				INVESTMENT YEAR: 1995				STUDY YR: 1996	
CITY/AREA: CINCINNATI				LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE/PROV: OHIO				SERVICE CLASS: BAND 3 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96 TIME: 10:37	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS									
Cable Gauge Mix:		GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge:				
The Proportion of		26 GA.	0.1500	0.1500	Update Cable Sheath Prices [Required with INDIVIDUAL Mode]				
Copper Cable that is		24 GA.	0.8500	0.8500	on the FULL SET Input SHEET? (Y/N) ☐ N				
		22 GA.	0.0000	0.0000	If not, Update				
Cable Type Mix, By Gauge:					GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT		
The Proportion of		26 GA. AERIAL	0.8100	0.5800	Average Unit				
Copper Cable that is		BURIED	0.0400	0.4200	26 GA. BURIED	\$	0.0189	\$	0.0658
		UNDGRND	0.1500	0.0000	UNDGRND	\$	0.0120	\$	0.0000
		24 GA. AERIAL	0.8100	0.5800	AERIAL	\$	0.0113	\$	0.0418
		BURIED	0.0400	0.4200	BURIED	\$	0.0189	\$	0.0658
		UNDGRND	0.1500	0.0000	UNDGRND	\$	0.0120	\$	0.0000
		22 GA. AERIAL	0.0000	0.0000	AERIAL	\$	0.0000	\$	0.0000
		BURIED	0.0000	0.0000	BURIED	\$	0.0000	\$	0.0000
		UNDGRND	0.0000	0.0000	UNDGRND	\$	0.0000	\$	0.0000
NOTE: If the DROP WIRE resource investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet. CONFIDENTIAL NOTICE MUST BE RELEASED PRIOR TO RELEASE PROVIDED TO BUCO									

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\FACILITY TABLE - SPAN INV SHEET 2A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO	LOOP COST ANALYSIS TOOL LOOP FACILITY INFO: COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN	Belcore LCAT Ver: 1.0.2 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:37
---	--	---

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	\$									

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098 FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

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

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

LCAT

INPUT SCREEN

Page -2-

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore[®]SPAN, NV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS WELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1998
TEST CASE: 1998
DATE: 1
LAST UPDATE: 24-Oct-98
TIME: 10:37COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.580000	\$ 0.041800	0.1500	0.087000	\$ 0.006270
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

--- TABLE 4 ---

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

Check =

CONFIDENTIAL
NOTICE: NO INFO TO BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO NO[H=F*TYPE / sum(F*TYPE)]
\$ 0.580000
\$ 0.420000
-

Check = 1.000000

FOOTNOTES

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore (R)	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR			LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE			STUDY YR: 1996	
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT			TEST CASE: 1996	
STATE / PROV: OH-O		SERVICE CLASS: BAND 3 - RESIDENCE ISDN			DATE: 1	
					LAST UPDATE: 24-Oct-95	
					TIME: 10:37	
MELDED CABLE INVESTMENT PER PAIR FOOT						
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pft..fd)	CABLE GAUGE MIX (copper..fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI	
CHARACTERISTICS FOR:						
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	
Check = 1.00						
TABLE 2		TABLE 4		TABLE 6		
DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED AERIAL BURIED	MELDED GAUGES
CHARACTERISTICS FOR:						
AERIAL	[F=sum(Dtype)]	0.810000	[G=sum(Etype)]	0.011300	0.011300	0.011300
BURIED		0.040000		0.018900	0.018900	0.018900
UNDERGRND		0.150000		0.012000	0.012000	0.012000
Check = 1.000000						
FOOTNOTES						

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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN**Bellcore** TM

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

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

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

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

PRESS "ENTER" TO RETURN TO THE MAIN MENU

CONFIDENTIAL
NO INFO TO BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

C:\123R24\LCATR098\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore (P)	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:37	
		SERVICE CLASS: BAND 3 - RESIDENCE ISDN			
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT			
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT		
	[A]	[B]	[C=B/A]		
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000		
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000		
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000		
TABLE 4 DEVELOPMENT FOR:		COPPER CABLE UNIT INVESTMENT		FOR DLC Gauge: 24.00	
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PF/leg) [D]	REPEATER BY GAUGE BY GAUGE [E=C]	WORKING CHANNEL INVESTMENT / FOOT (ADLCPFI/leg) [F=D+E]	- TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPFI/leg)	
DESCRIPTION					
AERIAL @ 26 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600	
BURIED @ 26 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800	
UNDGRND @ 26 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000	
AERIAL @ 24 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600	
BURIED @ 24 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800	
UNDGRND @ 24 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000	
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
NOTES: ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.					

CONFIDENTIAL
NOT TO BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

C:\123R24\LCATR058\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)															
TABLE - SPAN_INV SHEET 4 / 4		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR		LCAT Rel: 1.0.4 Issued: 07/31/95															
COM: COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:37															
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS																			
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :																	
The Average Number of Terminals in the Service Access Segment of a Loop -																			
Proportion of Loops that use.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial</td> <td>0.00</td> </tr> <tr> <td>Buried</td> <td>0.00</td> </tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial Termination</td> <td>0</td> </tr> <tr> <td>Buried Termination</td> <td>0</td> </tr> </table>	Aerial Termination	0	Buried Termination	0								
Aerial	0.00																		
Buried	0.00																		
Aerial Termination	0																		
Buried Termination	0																		
The Average Drop Wire & Building Entrance Cable Installation -																			
Proportion of Loops that use..	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Buried Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>1.0000</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>0.0000</td> </tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest for DW Investment 2 (Y/N) Per Unit Installation.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Buried Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>\$ 75.00</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>\$ 0.00</td> </tr> </table>	Aerial Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00
Aerial Wire Drops	0.0000																		
Buried Wire Drops	0.0000																		
Bldg Entrance Cable	1.0000																		
Aerial Coax/Wire Drops	0.0000																		
Aerial Wire Drops	\$ 0.00																		
Buried Wire Drops	\$ 0.00																		
Bldg Entrance Cable	\$ 75.00																		
Aerial Coax/Wire Drops	\$ 0.00																		
The Average Intrabuilding Cable Installation -																			
Proportion of Installations with Intrabuilding Cable	<table border="1" style="width: 100%;"> <tr> <td>0.0000</td> </tr> </table>	0.0000	Per Instn for a Intrabuilding Network Cable Pair	<table border="1" style="width: 100%;"> <tr> <td>\$ 0.00</td> </tr> </table>	\$ 0.00														
0.0000																			
\$ 0.00																			

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.

\\LCATR098\FACILITY
SPAN_INV
4

HELP SCREEN

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

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

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

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

***** 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

This Page Contains Competitively Sensitive and/or Trade Secret Information of Bell Communications Research, Inc.