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Case Number: 96-899-TP-ALT

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Part 28

MCI Exhibits
1-48

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C:\123R24\LCATR074\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

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 3 – RESIDENCE LIN
TOTAL LOOP LENGTH : 6825 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27–Jan–97
TIME : 08:49

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

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	DISTRIBUTION SUB–	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT – LOW CAP TERM	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT – LOW CAP CHAN	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT – HI CAP TERM	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT – HI CAP CHAN	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT – ANALOG SW	77C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT – DIGITAL SW	377C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONNECTORS	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
MISC. COM EQP & PWR	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.40	$ 2.40	$ 2.40
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 2.43	$ 4.51		$ 6.94	$ 6.94
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.17	$ 4.60		$ 4.77	$ 4.77
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.43	$ 0.00		$ 0.43	$ 0.43
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		$ 0.58	$ 1.08		$ 1.66	$ 1.66
CONDUIT	4C	$ 0.00		$ 0.15	$ 0.00		$ 0.15	$ 0.15
SPAN SUMMARY		$ 0.00	$ 0.00	$ 3.76	$ 10.19	$ 2.40	$ 16.35	$ 16.35
							$ 16.35	

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OUTPUT - WORKSHEET D
SHEET 8 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

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

CIRCUIT DESIGN : 5 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 6825 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 08:49

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

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

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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 LIN
TOTAL LOOP LENGTH : 6825 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 08:49

Circuit Design Mix : 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

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

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OUTPUT – WORKSHEET D
SHEET 10 of 10

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®

LCAT Rel : 1.0.4
Issued : 7/31/95

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 3 – RESIDENCE LIN
TOTAL LOOP LENGTH : 6825 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27–Jan–97
TIME : 08:49

Technology Type Mix : 1.0000

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

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	DISTRIBUTION SUB–	DISTRIBUTION	NETWORK INTERFACE	TOTAL LOOP	TECHNOLOGY WEIGHTED TOTAL LOOP
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	$ 2.40	$ 2.40	$ 2.3950
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	$ 2.43	$ 4.51	$ 0.00	$ 6.94	$ 6.9400
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.17	$ 4.60	$ 0.00	$ 4.77	$ 4.7700
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.43	$ 0.00	$ 0.00	$ 0.43	$ 0.4300
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	$ 0.58	$ 1.08	$ 0.00	$ 1.66	$ 1.6600
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.15	$ 0.00	$ 0.00	$ 0.15	$ 0.1500
SPAN SUMMARY		$ 0.00	$ 0.00	$ 3.76	$ 10.19	$ 2.40	$ 16.35	$ 16.35
							$ 16.35	

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C:\123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LAST UPDATE
27-Jan-97
08:28

LOOP COST ANALYSIS TOOL

LCAT
Release: 1.0.4
Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 1

CURRENT TEST PLAN :

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

....your run is finished

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

LOOP COST ANALYSIS TOOL

Bellcore (R)

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

LCAT Release : 1.0.4
Issue Date : 6/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:44

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

SEGMENT LENGTH IN FEET [A]	TYPE OF CABLE PLANT	FROM - TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM - TABLE 4 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE COMPONENTS: CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*fctr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fctr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
1981.0	AERIAL	0.580000	1149.0	0.041800	48.03		0.00	0.00	
CONSIDERS:	BURIED	0.420000	832.0	0.068800	57.24		0.00	0.00	
MELDED COPPER CABLE	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:
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:	inv rtrn fctr :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 34.72	
UG CONDUIT FACTOR (UCf) =	0.0000	0.5165
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =	$ 0.00	

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)

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C:\123R24\LCATCALC\DIST
DIST_PLNT – WORKSHEET A
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

Bellcore (R)

ACCOUNT INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:44

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 3 – RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED					1.0000		
BUILDING	10C	F	SHARED					1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	48.03	1		$ 48	0.3500		$ 137
BURIED CABLE (COPPER)	45C	V	DIRECT	57.24	1		$ 57	0.3500		$ 164
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00				0.3500		
CO EQPT – P GAIN TERM	257C	F	DIRECT					0.7000		
CO EQPT – P GAIN CHAN	257C	V	DIRECT					0.7000		
CO EQPT – FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT – FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT – ANALOG SW	77C	V	DIRECT					1.0000		
CO EQPT – DIGITAL SW	377C	V	DIRECT					1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED					1.0000		
POLE LINE	1C	F	DIRECT	34.72	1		$ 35	1.0000		$ 35
CONDUIT	4C	F	DIRECT	0.00				1.0000		
									$ 0	$ 335
										$ 335
										distinviy

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PROVIDED TO PUCO

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

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DIST_PLNT - WORKSHEET A
Sheet 3 of 3

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

LOOP COST ANALYSIS TOOL

Bellcore (R)

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:44

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		$ 137	0.3943		$ 54.11		$ 4.51
BURIED CABLE (COPPER)	45C	1.0000		$ 164	0.3377		$ 55.23		$ 4.60
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT - P GAIN TERM	257C	1.0000			0.3791				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT - FO MUX TERM	857C	1.0000			0.3791				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		$ 35	0.3717		$ 12.90		$ 1.08
CONDUIT	4C	1.0000			0.2431				
			dstshrinv	dstdirinv					
TOTALS			$ 0	$ 335		$ 0.00	$ 122.24	$ 0.00	$ 10.19
				$ 335			$ 122.24		$ 10.19
				distinvsy			distann		distmrc

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

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DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:44

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

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

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

	from length	from invest.
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 0.00	

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PROVIDED TO PUCO

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

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DIST_PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:44

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

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

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

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PROVIDED TO PUCO

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

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DIST_PLNT – WORKSHEET 3
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 : 27-Jan-97
TIME : 08:44

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3832		$ 28.74		$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – P GAIN TERM	257C	1.0000			0.3791				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 28.74	$ 0.00	$ 2.40
				$ 75			$ 28.74		$ 2.40
				bctinvsy			bctann		bctmrc

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

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DIST_PLNT – WORKSHEET B
Sheet 1 of 3

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

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

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

	from length	from invest. :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 0.00	

NOTICE: MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC
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FOOTNOTES
NOTE 1: FOR 4 WIRE SERVICES ONLY. THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.
NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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DIST_PLNT – WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

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

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

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DIST_PLNT – WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27–Jan–97
TIME : 08:45

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3832		$ 28.74		$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – P GAIN TERM	257C	1.0000			0.3791				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3712				
CONDUIT	4C	1.0000			0.2431				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 28.74	$ 0.00	$ 2.40
				bctinvsy			bctann		bctmrc

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

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DIST_PLNT - REPORT 14A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore(R)

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC,NON-COLLCC
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27-Jan-97
TIME: 08:45

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.	0 / 1.0000 / 6825					(See Note) TOTAL AVG. WEIGHTED INVESTMENT
		SEG. LGTH.	1981.0					1981
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		$ 4.51					$ 4.51
BURIED CABLE (COPPER)	45C		$ 4.60					$ 4.60
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		$ 1.08					$ 1.08
CONDUIT	4C							$ 0.00
SPAN SUMMARY			$ 10.19	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00
AVG. WTD. SPAN SUMMARY			$ 10.19	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00
NOTE:			[sum(INV$_{ACCT}^{BAND}$ * MIX^{BAND})]					$ 10.19

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DIST_PLNT – REPORT 14B
Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

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

CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS:BAND 3 – RESIDENCE LINE

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

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

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RUN - SUB PRI

LAST UPDATE
27-Jan-97
08:29

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

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

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

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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SUB_PR - WORKSHEET
Sheet 1 of 3

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

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

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

Bellcore (R)
LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR : 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

SEGMENT LENGTH IN FEET [A]	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE COMPONENTS: 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	3923.64	0.011300	44.34		0.00	0.00	
MELDED GAUGE/S/ COPPER CABLE	BURIED	0.040000	193.76	0.018900	3.66		0.00	0.00	
	UNDERGRND	0.150000	726.60	0.012000	8.72		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 lgth:	inv rtn fctr :
POLE LINE FACTOR =	0.000000	0.253000
POLE LINE INVESTMENT =	$ 18.70	
(UTIL AERIAL INVEST x PLf)		
UG CONDUIT FACTOR =	0.000000	0.516500
CONDUIT INVESTMENT =	$ 7.51	
(UTIL UNDGRND INVEST x UCf)		

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 =	0.13100
BLDG NVST (CO CONN + MCEP) x FACTOR =	$ 0.00
PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
PERCENT OF CO CONN AT ANALOG SWITCHES	0.0000

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.
NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)
NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.
NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).

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SUB_PRI – WORKSHEET
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 3 – RESIDENCE LINE

Bellcore (R)
LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	44.34	1		$ 44	0.6000		$ 74
BURIED CABLE (COPPER)	45C	V	DIRECT	3.66	1		$ 4	0.6000		$ 6
UNDERGROUND (CU) CA.	5C	V	DIRECT	8.72	1		$ 9	0.6000		$ 15
CO EQPT – LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT – LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT – HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT – HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT – ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT – DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	18.70	1		$ 76	1.0000		$ 19
CONDUIT	4C	F	DIRECT	7.51	1		$ 8	1.0000		$ 8
										$ 121
TOTALS										$ 121

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FOOTNOTES

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

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SUB_PRI - WORKSHEET
Sheet 1 of 3

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 3 - RESIDENCE LINE

Bellcore (R)
LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		$ 74	0.3943		$ 29.14		$ 2.43
BURIED CABLE (COPPER)	45C	1.0000		$ 6	0.3377		$ 2.06		$ 0.17
UNDERGROUND (CU) CA.	5C	1.0000		$ 15	0.3573		$ 5.19		$ 0.43
CO EQPT - LOW CAP TERM	257C	1.0000			0.3791				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3791				
CO EQPT - HI CAP TERM	857C	1.0000			0.3791				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3791				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		$ 19	0.3717		$ 6.95		$ 0.58
CONDUIT	4C	1.0000		$ 8	0.2431		$ 1.82		$ 0.15
SUBTOTALS			$ 0	$ 121		$ 0.00	$ 45.16	$ 0.00	$ 3.76
TOTALS				$ 121			$ 45.16		$ 3.76
				culpinvsy			culpac		culpmrc

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

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SUB_PRI - REPORT 14
Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore™

LCAT Release : 1.0.4
Issue Date : 7/31/95

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

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

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 08:45

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

									(SEE NOTE) TOTAL AVG. WEIGHTED
		BAND	0						
	PLANT	MIX	1.0000						
	ACCT	AVG.							
PLANT ITEM	CODE	LGTH	6825						
	SEG.	LGTH.	4844						4844
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		$ 2.43						$ 2.43
BURIED CABLE (COPPER)	45C		$ 0.17						$ 0.17
UNDERGROUND (CU) CA.	5C		$ 0.43						$ 0.43
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	0.5	$ 0.58						$ 0.58
CONDUIT	4C	0.1	$ 0.15						$ 0.15
SPAN SUMMARY			$ 3.76	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 3.76
AVG. WTD. SPAN SUMMARY			$ 3.76	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	

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

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RUN - CDLC PLANT

LAST UPDATE
27-Jan-97
08:30

LOOP COST ANALYSIS TOOL

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

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

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

CURRENT TEST PLAN :

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

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CDLC_PLANT – WORKSHEET 1
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore

BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

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

FACILITY TYPE : COPPER DIG LOOP CXR
CIRCUIT DESIGN : 11 C
SERVICE CLASS : BAND 3 – RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 5/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 27–Jan–97
TIME : 08:46 AM

6825 cur_lplgth
4844 curstdr–lgth
f = 0.125 pgfactor

SEGMENT LENGTH IN FEET [A]	TYPE OF CABLE PLANT	RELATIVE MIX OF TYPE OF CA. PLANT [B]	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT [C=A*B*f]	MELDED INVEST. PER UNIT FOOT [D]	CABLE COMPONENTS (NOTE 5): CABLE INVESTMENT PER CHAN [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR [E*fctr]	(NOTE 4) DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	(NOTE 5) WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]
0	AERIAL	0.810000	0.00	0.022600	$ 0.00		$ 0.00		
CO TO RT LINK ON COPPER CABLE DLC	BURIED	0.040000	0.00	0.037800	$ 0.00		$ 0.00		
24.00 GA. FACILITIES	UNDERGRND	0.150000	0.00	0.024000	$ 0.00		$ 0.00		
		1.000000							

OUTSIDE PLANT LOADINGS (NOTE 5) :

		DROP WIRE	AIR DRYER
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) :		TERM	CHAN
INT DLC EQUIP INVEST. (CU COMUX) =	intdlcco_	$ 0.00	$ 0.00
INT DLC EQUIP INVEST. (CU RTMUX) =	intdlcrt_	$ 51.57	$ 85.28
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdlcco_	$ 12.14	$ 87.51
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdlcrt_	$ 51.57	$ 85.28
DLC EQUIP INVEST. (CU LINE) =	___dlccol		$ 0.00
CONDUIT INVEST. FOR DLC CEV FACILITIES =	conpgnvst	$ 0.00	
OTHER INVESTMENT		inv / unit lgth	:inv rtn fctr :
POLE LINE FACTOR (PLf) =		0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		$ 0.00	
UGD CONDUIT FACTOR (UCf) =		0.0000	0.5165
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) =		$ 0.00	

EQUIPMENT INVESTMENT LOADINGS

INVST. PER CHAN. FOR DLC TERM (co conn)=	$ 0.00
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem)=	0.1127
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.)=	0.1127
MCE&P INVST. (CU REMMUX x MCEPf) =	$ 15.42
MCE&P INVST. (CDLCMUX x MCEPf) =	$ 11.23
MCE&P INVST. (CO CONN x MCEPf) =	$ 0.00
OTHER INVESTMENT	
LAND FACTOR FOR DLC (LANDf_rem) =	0.0058
LAND FACTOR FOR DLC (LANDf_c.o.) =	0.0058
LAND INVST.(CU COMUX+MCEP) x LANDf =	$ 1.47
LAND INVST. ((CO CONN+MCEP) x LANDf) =	$ 0.00
BUILDING FACTOR FOR DLC (BLDGf_rem.)=	0.1316
BUILDING FACTOR FOR DLC (BLDGf_c.o.)=	0.1316
BLDG INVST.(CDLCMUX+MCEP) x BLDGf =	$ 34.63
BLDG INVST. ((CO CONN+MCEP) x BLDGf) =	$ 0.00

LOOP TOPOLOGY

	STAR
AVERAGE NUMBER OF HUBS	NA
ADDITIONAL LENGTH OF RING OSP REQUIRED	NA
MIX OF CENT. OFC, ANALOG INTFC	0.0000
MIX OF CENT. OFC, DIGITAL INTFC	1.0000
MIX OF UNIVERSAL DLC INTFC	1.0000
MIX OF INTEGRATED DIGITAL INTFC	0.0000

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.

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C:\123R24\LCATCALC\CUPRGN
CDLC_PLANT – WORKSHEET 1
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

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

FACILITY TYPE : COPPER DIGITAL LOOP CXR
CIRCUIT DESIGN : [illegible]
SERVICE CLASS : BAND 3 – RESIDENCE LINE

Bellcore (R)
LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 27–Jan–97
TIME : 08:46 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. UTIL LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	1.47	0			1.0000		
BUILDING	10C	F	SHARED	34.76	0			1.0000		
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000		
INTRABLDG CABLE	52C	---	---		0			0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00	0			0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00	0			0.6000		
CO EQPT – P GAIN TERM	257C	F	DIRECT	79.13	0			0.7000		
CO EQPT – P GAIN CHAN	257C	V	DIRECT	172.79	0			0.7000		
CO EQPT – FO MUX TERM	857C	F	DIRECT		0			1.0000		
CO EQPT – FO MUX CHAN	857C	F	DIRECT		0			1.0000		
CO EQPT – ESS – ANALOG	77C	V	DIRECT	0.00	0			1.0000		
CO EQPT – ESS – DIGITAL	377C	V	DIRECT	0.00	0			1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT		0			0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT		0			0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT		0			0.2600		
CONNECTORS	57C	V	DIRECT		0			1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	11.23	0			1.0000		
POLE LINE	1C	F	DIRECT	0.00	0			1.0000		
CONDUIT	4C	F	DIRECT	0.00	0			1.0000		
TOTALS									$0	$0
										$0
										FEED11Y

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

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C:\123R24\LCATCALC\CUPRGN
CDLC_PLANT – WORKSHEET 1
Sheet 3 of 3

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

LOOP COST ANALYSIS TOOL

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY
FACILITY TYPE : COPPER DIG LOOP CXR
CIRCUIT DESIGN : [illegible] C
SERVICE CLASS : BAND 3 – RESIDENCE LINE

Bellcore

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 27-Jan-97
TIME : 08:46 AM

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – P GAIN TERM	257C	1.0000			0.3791				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ESS – ANALOG	77C	1.0000			0.0000				
CO EQPT – ESS – DIGITAL	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
TOTALS			$ 0	$ 0		$ 0.00	$ 0.00	$ 0.00	$ 0.00
				$ 0 FEED1SY			$ 0.00 FEED1ANN		$ 0.00 FEED1MRC

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

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COLC_PLANT - REPORT : 4.1
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

LCAT Release : 1.0.4
Issue Date : 8/31/95

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

FACILITY SEGMENT : PRIMARY FEEDER SEGMENT
CIRCUIT DESIGN: 1 COPPER DIG LOOP CXR
SERVICE CLASS : BAND 3 - RESIDENCE LINE

STUDY YR : 1996
TEST CASE : 1
DATE : 27-Jan-97
TIME : 08:47 AM

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG LGTH	(SEE NOTE) TOTAL AVG. WEIGHTED INVESTMENT
		1.0000	
		6825	
	SEG.LGTH.	0	0
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 0.00 0.00 0.00 0.00	0.00
AVG. WTD. SPAN SUMMARY		0.00 0.00 0.00 0.00 0.00 0.00	

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

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Bellcore (R)

RUN – FO MUX

LAST UPDATE
27–Jan–97
08:31

LOOP COST ANALYSIS TOOL

LCAT
Release: 1.0.4
Issued: 7/31/95

FEEDER SEGMENT COST MODEL – FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO–UNBUNDLED) RESIDENCE LINE STUDY 0 – 18000

CURRENT TEST PLAN :

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

....your run is finished

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A C:\123R24\LCATCALC\FOPRGN.WK1 **LOOP COST ANALYSIS TOOL** Bellcore
B FO_MUX – WORKSHEET 3 BASIC INVESTMENT WORKSHEET LCAT Rel : 1.0.4
C Sheet 1 of 3 FOR PRIMARY FEEDER PLANT ISSUE DATE : 7/31/95
D COMPANY: CINCINNATI BELL TEL FACILITY TYPE : FIBER IN THE LOOP STUDY YR : 1996
E CITY / AREA : CINCINNATI CIRCUIT DESIGN : 3 | FOMUX TO HUB / REM. TEST CASE : 1
F STATE / PROV : OHIO SERVICE CLASS : BAND 3 – RESIDI SERVICE LEVEL: NARBAND LAST RUN : 27–Jan–97
G TIME : 08:48

0 from sfar_tbl : from bw_mix :
1 4844 cur_sfdrlgth f = 1979.04 wtdeqvmn
2 0 cur_prilgth

	SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	RELATIVE MIX OF TYPE OF CA. PLANT	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT	MLD CABLE DESIGN INVEST. PER PAIR FOCT	CABLE COMPONENTS (NOTE 5): WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT	WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR	(NOTE 4) DROP WIRE ADJUSTMENT PER PAIR	(NOTE 5) WEIGHTED DROP WIRE INVESTMENT PER PAIR
fo3pri_seglgth	[A]		[B]	[C=A*B/f]	[D]	[E=C*D]	[UI*DTC]	[E*fctr]	[E*fctr]	[UI*DTC]
	0	AERIAL	0.810000	0.00	0.193000	0.00		0.00		
CO TO HUB LINK ON FIBER OPTIC FACILITIES		BURIED	0.000000	0.00	0.000000	0.00		0.00		
		UNDERGRND	0.190000	0.00	0.222900	0.00		0.00		
			1.000000							

OUTSIDE PLANT LOADINGS (NOTE 5) :		DROP WIRE	AIR DRYER
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)		TERM	CHAN
INT DLC EQUIP INVEST. (CU COMUX) =	intdlcco_	$ 0.00	$ 0.00
INT DLC EQUIP INVEST. (CU RTMUX) =	intdlcrt_	$ 51.57	$ 85.28
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdlcco_	$ 12.14	$ 87.51
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdlcrt_	$ 51.57	$ 85.28
FIBER MUX EQUIP. INV. (FO COMUX) =	hubmx0co_	$ 2.35	$ 19.62
FIBER MUX EQUIP. INV. (FO RTMUX) =	hubmx0rt_	$ 2.35	$ 18.49

OTHER INVESTMENT		inv / unit lgth.:	inv rtn fctr :
POLE LINE FACTOR (PLf) =	fplf_	0.0000	0.1965
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		$ 0.00	
UNDERGROUND CONDUIT FACTOR (PLf) =	fucf_	0.0000	0.5232
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =		$ 0.00	

LOOP TOPOLOGY	STAR
AVERAGE NUMBER OF HUBS	NA
ADDITIONAL LENGTH OF RING OSP REQUIRED	NA
MIX OF CENT. OFC. ANALOG INTFC	0.0000
MIX OF CENT. OFC. DIGITAL INTFC	1.0000
MIX OF UNIVERSAL DLC INTFC	1.0000
MIX OF CENT. OFC. INTEGRATED DLC INTFC	0.0000

EQUIPMENT INVESTMENT LOADINGS	
INVST. PER CHAN. FOR CA TERM (CA CONN) =	$ 0.00
MISC. COM. EQPT. & POWER FACTOR (DLCrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) =	0.1127
MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) =	$ 13.71
MCE&P INVST. (MUXrem+DLCrem) x MCEPfrem) =	$ 17.77
MCE&P INVST. (CA CONN x MCEPfc.o.) =	$ 0.00
MCE&P INVST. (CA CONN x MCEPfrem) =	$ 0.00
LAND FACTOR FOR MUX EQP(LANDfrem) =	0.0056
LAND FACTOR FOR MUX EQP(LANDfrem) =	0.0056
LAND FACTOR FOR OTH (LANDfrem) =	0.0056
LAND FACTOR FOR DLC EQP(LANDfc.o.) =	0.0056
LAND FACTOR FOR MUX EQP(LANDfc.o.) =	0.0056
LAND FACTOR FOR OTH (LANDfc.o.) =	0.0056
LAND INVST.(DLC+MUX+MCEP) x LANDfc.o. =	$ 0.76
LAND INVST. (MUX+DLC+MCEP) x LANDfrem =	$ 0.98
BUILDING FACTOR FOR DLC EQP(BLDGfrem) =	0.1316
BUILDING FACTOR FOR MUX EQP(BLDGfrem) =	0.1316
BUILDING FACTOR FOR OTH(BLDGfrem) =	0.1316
BUILDING FACTOR FOR DLC EQP(BLDGfc.o.) =	0.1316
BUILDING FACTOR FOR MUX EQP(BLDGfc.o.) =	0.1316
BUILDING FACTOR FOR OTH(BLDGfc.o.) =	0.1316
BLDG INVST.(DLC+MUX+MCEP) x BLDGfc.o. =	$ 17.81
BLDG INVST.(MUX+DLC+MCEP) x BLDGfrem) =	$ 23.05

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.

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C:\123R24\LCATCALC\FOPRGN.WK1
FO_MUX – WORKSHEET 3
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

FOR PRIMARY FEEDER PLANT
FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 | FOMUX TO HUB / REM.
SERVICE CLASS : BAND 3 – RESID SERVICE LEVEL: NARBAND

Bellcore
LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 27-Jan-97
TIME : 08:48

PLANT ITEM	PLANT ACCT CODE cmstart	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL utilstart	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]
LAND	20C	F	SHARED	1.74	0			1.0000		
BUILDING	10C	F	SHARED	40.90	0			1.0000		
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000		
CO EQPT – LOW CAP TERM	257C	F	DIRECT	63.71	0			0.7000		
CO EQPT – LOW CAP CHAN	257C	V	DIRECT	172.79	0			0.7000		
CO EQPT – HI CAP TERM	857C	F	DIRECT	22.47	0			1.0000		
CO EQPT – HI CAP CHAN	857C	F	DIRECT	38.11	0			1.0000		
CO EQPT – ANALOG SW	77C	V	DIRECT	0.00	0			1.0000		
CO EQPT – DIGITAL SW	377C	V	DIRECT	0.00	0			1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT	0.00	0			0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00	0			0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.00	0			0.3300		
CONNECTORS	57C	V	DIRECT	0.00	0			1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	13.71	0			1.0000		
POLE LINE	1C	F	DIRECT	0.00	0			1.0000		
CONDUIT	4C	F	DIRECT	0.00	0			1.0000		
TOTALS									$0	$0
										$0

feed3iy

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

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FO_MUX – WORKSHEET 3
Sheet 3 of 3

LOOP COST ANALYSIS TOOL

ANNUAL COSTS WORKSHEET

Bellcore (R)

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

FOR PRIMARY FEEDER PLANT
FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 | FOMUX TO HUB / REM.
SERVICE CLASS : BAND 3 – RE SERVICE LEVEL: NARBAND

LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 27–Jan–97
TIME : 08:48

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT — SHARED RESOURCES	DIRECT RESOURCES	ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT SHARED RESOURCES	DIRECT RESOURCES	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT SHARED RESOURCES	DIRECT RESOURCES
		tpistart	fo3sixaset	fo3dixaset	acfstart			fo3scxaset	fo3dcxaset
[PREVIOUS SHEET SUMMARY		[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – LOW CAP TERM	257C	1.0000			0.3791				
CO EQPT – LOW CAP CHAN	257C	1.0000			0.3791				
CO EQPT – HI CAP TERM	857C	1.0000			0.3791				
CO EQPT – HI CAP CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
TOTALS			$ 0	$ 0		$ 0.00	$ 0.00	$ 0.00	$ 0.00
				$ 0			$ 0.00		$ 0.00
				feed3sy			feed3ann		feed3mrc

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST_METH
SHEET 1 of 2

COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENT

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR: 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:13

PLANT ITEM	LCAT CODE	PLANT CODE	WHEN BANDWIDTH DELIVERY IS ..... NARBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	WIDEBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	BROADBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT
LAND	LAND	20C	F	SHARED	F	SHARED	F	SHARED
BUILDING	BLDG	10C	F	SHARED	F	SHARED	F	SHARED
BLDG ENTRANCE CABLE	BEC	12C	V	DIRECT	V	DIRECT	V	DIRECT
INTRABLDG CABLE	IBC	52C	V	DIRECT	V	DIRECT	V	DIRECT
AERIAL CABLE (COPPER) ❶	ACU	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ❶	BCU	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ❶	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

❶ THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPLEXED) FEEDER & DISTRIBUTION

BY DEFINITION : ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
ITEMS LABELD F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
ALL ITEMS ARE INCLUDED IN A PROSPECTIVE REPLACEMENT OR NEW INSTALLATION.

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C:\123R24\LCATR074\COSTMETH
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 methodolgy 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 Volitility 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 Investemnt. SHARED - for Multi-Circuit or Non-Specific Investment.

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST_METH
SHEET 2 of 2

COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR: 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:13

PLANT ITEM	PLANT CODE	WHEN BANDWIDTH DELIVERY IS ..... NARBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	WIDEBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	BROADBAND CATEGORY ..... 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) ❶	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ❶	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ❶	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

❶ THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS, ONLY

BY DEFINITION : ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
ITEMS LABELD F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE – COST_METH
Sheet 2 of 2

HELP SCREEN

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

Field / Group Title	Valid Inputs	This field or grouping defines –
SERVICES	(none)	The system matrix for FEEDER cost methodolgy 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 Volitility 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 Investemnt. SHARED – for Multi–Circuit or Non–Specific Investment.

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - STUDY SETUP
LCAT Rel. : 1.0.4
Issue Date : 3/31/95

GENERAL STUDY REQUIREMENTS

TODAY IS : 27-Jan-97
LAST UPDATE: 09-Dec-96 10:15 AM

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

COMMENTS

SERVICE CLASS: BAND 3 - RESIDENCE LINE

STUDY BASIS: x 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 (VH) 100 (HI) 0 (MED) 0 (LO)

TEST CASE: 1

DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:

Type Percent Mix :

100 FIBER IN THE LOOP

0 COPPER DIG LOOP CXR

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INPUT – STUDY SETUP
Sheet 1 of 2

HELP SCREEN

Bellcore (R)
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>, <Del>, <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 *****

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - STUDY SETUP
SHEET 2 / 2

GENERAL STUDY REQUIREMENTS
STUDY QUESTIONS
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel. 1.0.4
ISSUED: 3/31/95
STUDY YEAR: 1996
TEST CASE: 1
LAST UPDATE : 09-Dec-96
TIME : 10:15 AM

	SELECTED QUESTIONS	VALID RESPONSE SET		
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ?	N or A	NEW	
	2. Is this Study for a SWITCHED or PRIVATE LINE Service ?	S or P	SWITCHED	
	3. Is this Study for Narrow, Wide, or Broadband Services	N, W or B	NARBAND	
	4. Is this Study for 2 Wire or 4 Wire Transmission ?	2 or 4	2	
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches?	0 → 100	100	
	6. What Percent of Loop Carrier Installations are INTEGRATED DLC's?	0 → 100	0	
	7. What Percent of Loop Carrier Cross-connects are Electronic DCS's?	0 → 100		
	8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?	e.g., 12000	18000	Feet
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ?	F or D	FLAT RATE	
	9a. If Distance Sensitive, what band increment do you want ?	1,2,3,4		
	10. How many Cost Bands in this study ?	0 → 5	0	
	11. Should this Study result in Investment, Cost, or All values ?	I, C or A	COST	
	12. Is this study for Total Incremental or Marginal Costs ?	T or M	TOT INCR	
	13. How many circuits (loops) in this Study ?	0 → 999	1	
	14. The study classification is .....(e.g.; RATES PLAN, TEST DATA, NEW SERVICE). Required for the "Footer" of each Report page.		RATES PLAN	

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INPUT – STUDY SETUP

HELP SCREEN

Bellcore

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.

2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.

3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.

4. Specify as **2** for 2–wire or **4** for 4–wire, the circuit transmission paths used by the service/s/ being studied. .

5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.

6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,
Using 6. for Switched Services or **Using 7.** for Special (Private Line) Services.

8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered

9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study

9A. Enter **1, 2, 3,** or **4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study

10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non–Banded) Input or Individual Circuit Flat Rate Cost Studies.

11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.

12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.

13. Enter the quantity of loop circuits that will be the demand basis of this cost study.
Nominally, entering 1 provides a "UNIT" cost and any other value, a "TOTAL" cost.

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C:\123R24\LCATR074\DESIGN **LOOP COST ANALYSIS TOOL** **Bellcore**

INPUT - LOOP_DESIGN
Sheet 1 / 1

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

CIRCUIT DESIGN REQUIREMENTS
CHARACTERISTICS
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 3 - RESIDENCE LINE

LCAT Rel :1.0.4
Issued :07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:16

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:

FOR FIBER DLC DESIGNS:

	Note	
Weighting of Design #1		0.0000
Weighting of Design #2		0.0000
Weighting of Design #3		1.0000
Weighting of Design #4	NA	0.0000
Weighting of Design #5	NA	0.0000
Weighting of Design #6	NA	0.0000
		1.0000 ChkSum

FOR COPPER DLC DESIGNS:

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

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

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C:\123R24\LCATR074\DESIGN
INPUT – LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN

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

DIGITAL LOOP CARRIER DESIGNS

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

COLLOCATIONS

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

FIBER HUBS & FEEDER EXTENSIONS

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

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

SERVICE SPECIFIC

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

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - SPAN_INV
SHEET 1 / 4

LOOP FACILITY INPUT
FIBER CABLE-DATA
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-95
TIME: 10:18

FIBER CABLE INVESTMENT AND CHARACTERISTICS

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

INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :

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

If not, Update Unit Averages as Follows :

PRIMARY SEGMENT

Average Unit Investment for FIBER cable, Installed as			
	AERIAL	$ 0.1930	per fiber pair Foot
	BURIED	$ 0.0000	per fiber pair Foot
	UNDGRD	$ 0.2229	per fiber pair Foot

(e to Fiber Hub)

FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT

Average Unit Investment for FIBER cable, Installed as				
	AERIAL	$ 0.1930	$ 0.0000	per fiber pair Foot
	BURIED	$ 0.0000	$ 0.0000	per fiber pair Foot
	UNDGRD	$ 0.2229	$ 0.0000	per fiber pair Foot
		(Fiber Hub to Remote Terminal)	(Remote Terminal to Service Point)	

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - SPAN_INV
SHEET 1A / 4

LOOP FACILITY INPUT
FIBER CABLE DATA - BY CABLE SHEATH DETAIL
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: T.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 10:18

FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size

Cable Sheath Sizes		CAPACITY INDEX	AERIAL	BURIED	UNDERGROUND
4	Fiber Cable	2 pr	$	$	$
6	Fiber Cable	3 pr	$	$	$
12	Fiber Cable	6 pr	$	$	$
18	Fiber Cable	9 pr	$	$	$
24	Fiber Cable	12 pr	$	$	$
36	Fiber Cable	18 pr	$	$	$
48	Fiber Cable	24 pr	$	$	$
60	Fiber Cable	30 pr	$	$	$
72	Fiber Cable	36 pr	$	$	$
84	Fiber Cable	42 pr	$	$	$
96	Fiber Cable	48 pr	$	$	$
144	Fiber Cable	72 pr	$	$	$
192	Fiber Cable	96 pr	$	$	$
216	Fiber Cable	108 pr	$	$	$

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TABLE - SPAN_INV
SHEET 1 / 4

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LCAT Rel : 1.0.4
Issued : 07/31/95

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE – SPAN_INV
SHEET 2 / 4

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

LOOP FACILITY INPUT
COPPER CABLE DATA
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 – RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09–Dec–96
TIME: 10:18

COPPER CABLE CHARACTERISTICS AND INVESTMENTS

Cable Gauge Mix :

The Proportion of Copper Cable that is ....

GUAGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	0.1500	0.1500
24 GA.	0.8500	0.8500
22 GA.	0.0000	0.0000

Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :

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

If not, Update

Cable Type Mix, By Gauge :

The Proportion of Copper Cable that is ....

GUAGE		FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	0.8100	0.5800
	BURIED	0.0400	0.4200
	UNDGRND	0.1500	0.0000
24 GA.	AERIAL	0.8100	0.5800
	BURIED	0.0400	0.4200
	UNDGRND	0.1500	0.0000
22 GA.	AERIAL	0.0000	0.0000
	BURIED	0.0000	0.0000
	UNDGRND	0.0000	0.0000

Average Unit Investment for Copper Cable Installed as ....

GUAGE		FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	$ 0.0113	$ 0.0418
	BURIED	$ 0.0189	$ 0.0688
	UNDGRND	$ 0.0120	$ 0.0000
24 GA.	AERIAL	$ 0.0113	$ 0.0418
	BURIED	$ 0.0189	$ 0.0688
	UNDGRND	$ 0.0120	$ 0.0000
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 averavalues, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - SPAN_INV
SHEET 2A / 4

LOOP FACILITY INPUT
COPPER CABLE DATA - BY CABLE SHEATH DETAIL
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

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

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 10:16

COPPER CABLE INVESTMENT REFERENCE TABLE

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

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

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C:\123R24\LCATR074 FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

Bellcore

HELP SCREEN

LCAT Rel : 1.0.4
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C:\123R24\LCATR074\FACILITY.WK1 **LOOP COST ANALYSIS TOOL** Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE : DISTRIBUTION SEGMENT
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issue Date: 07/31/95
STUDY YR : 1996
TEST CASE : 1996
DATE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:18

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

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper..dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.580000	$ 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
			Check =	1.00	

--- 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

--- TABLE 6 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
	[H=F_{TYPE} / sum(F_{TYPE})]
	$ 0.580000
	$ 0.420000
	-
Check =	1.000000

FOOTNOTES

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C:\123R24\LCATR074\FACILITY.WK1 **LOOP COST ANALYSIS TOOL** Bellcore (R)

SPAN_INV - WORKSHEET
Sheet 2 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE : SUBFEEDER SEGMENT
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issue Date: 07/31/95
STUDY YR : 1996
TEST CASE : 1996
DATE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:18

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

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pfi..fd)	CABLE GAUGE MIX (copper..fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.810000	$ 0.011300	0.1500	0.121500	$ 0.001695
BURIED @ 26 GA.	0.040000	$ 0.018900	0.1500	0.006000	$ 0.002835
UNDGRND @ 26 GA.	0.150000	$ 0.012000	0.1500	0.022500	$ 0.001800
AERIAL @ 24 GA.	0.810000	$ 0.011300	0.8500	0.688500	$ 0.009605
BURIED @ 24 GA.	0.040000	$ 0.018900	0.8500	0.034000	$ 0.016065
UNDGRND @ 24 GA.	0.150000	$ 0.012000	0.8500	0.127500	$ 0.010200
AERIAL @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
BURIED @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
UNDGRND @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
				Check =	1.00

--- TABLE 2 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR :		[F=sum(D_{TYPE})]
AERIAL		0.810000
BURIED		0.040000
UNDERGRND		0.150000
	Check =	1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
	[G=sum(E_{TYPE})]
	$ 0.011300
	$ 0.018900
	$ 0.012000

--- TABLE 6 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
	[H=F_{TYPE} / sum(F_{TYPE})]
	$ 0.952941
	$ 0.047059
	-
Check =	1.000000

FOOTNOTES

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - SPAN_INV
SHEET 3 / 4

LOOP FACILITY INPUT
COPPER PAIRGAIN CABLE DATA
FOR

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:18

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] : ❶ 0.1250

NOTE:

❶ The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire), Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or (10 + 2) / 96 = 0.125. When applied to segment length it becomes the Effective Length per Pair.

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TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Bellcore®
LCAT Rel : 07/31/95
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pggauge	In CSA rules, a single gauge is preferred for CDLC
vgcheqv	Each CDLC has a voice grade equivalent, usually referred to as a ___ Channel System. Domestic systems are basic 96 Channel, whereas, International are 120 Channel
xmsnpr	CDLC uses a Transmit/Receive Pair for each direction (unidirectional). therefore, the basic structure is four sets of two pairs plus one protection set (10 pairs)
suptpr	CDLC is customarily supported by a power pair and an alarm pair (2 pair)
pgfactor	Where : pgfactor = (# of xmmsnpr + # of suptpr) / vgcheqv

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C:\123R24\LCATR074\FACILITY.WK1 **LOOP COST ANALYSIS TOOL** Bellcore (R)

SPAN INV - WORKSHEET
Sheet 3 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET B
FOR
FACILITY TYPE: COPPER CABLE for DLC
DESIGN TYPE : FEEDER SEGMENT
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issue Date: 07/31/95
STUDY YR : 1996
TEST CASE : 1996
DATE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:16

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

MELDED CABLE INVESTMENT PER PAIR FOOT

INVESTMENT DEVELOPMENT FOR:

LINE REPEATER EQUIPMENT

DESCRIPTION	REPEATER SPACING [A]	UNIT REPEATER INVESTMENT [B]	REPEATER INVEST. PER FOOT [C=B/A]
LINE REPEATER AT 26 GA.	3500	$ 0	$ 0.000000
LINE REPEATER AT 24 GA.	4500	$ 0	$ 0.000000
LINE REPEATER AT 22 GA.	5500	$ 0	$ 0.000000

TABLE 4 DEVELOPMENT FOR:

COPPER CABLE UNIT INVESTMENT

FOR DLC Gauge : 24.00

DESCRIPTION	ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PFIcgg) ① [D]	REPEATER BY GAUGE REPTR ggG) [E=C]	WORKING CHANNEL INVESTMENT / FOOT (ADLCPFIcgg) [F=D+E]	- TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPFIc)
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	
BURIED @ 24 GA.		$ 0.037800	$ 0.000000	$ 0.037800	
UNDGRND @ 24 GA.		$ 0.024000	$ 0.000000	$ 0.024000	
AERIAL @ 22 GA.		$ 0.000000	$ 0.000000	$ 0.000000	
BURIED @ 22 GA.		$ 0.000000	$ 0.000000	$ 0.000000	
UNDGRND @ 22 GA.		$ 0.000000	$ 0.000000	$ 0.000000	

NOTES :
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - SPAN_INV
SHEET 4 / 4

LOOP FACILITY INPUT
SERVICE ACCESS SEGMENT
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:18

SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS

AVERAGE UNIT MIX :

AVERAGE UNIT INVESTMENT :

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

Proportion of Loops that use.....

Aerial	0.00
Buried	0.00

Per Unit Installation.....

Aerial Termination	0
Buried Termination	0

The Average Drop Wire & Building Entrance Cable Installation -

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

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

Per Unit Installation.....

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

The Average Intrabuilding Cable Installation -

Proportion of Installations with Intrabuilding Cable: 0.0000

Per Instln for a Intrabuilding Network Cable Pair: $ 0.00

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I:\LCATR074\FACILITY
SPAN_INV
4

HELP SCREEN

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

terma termb	These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network interface Block summary per circuit pair installation investment.
adropinv bdropinv bec coaxinv	These facility investments may also include Drop Wire Block and/or Network Interface summary per circuit pair installation inveatment.
ibc	This facility investment should include ALL the internal cross-connects and terminations for this type of installation as a circuit pair istallation investment.

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - FACTORS
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES
FOR
ANNUALIZATION FACTORS
INVESTMENT YEAR : 1996
STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 20-Jan-97
TIME : 12:52

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

SERVICE CLASS:BAND 3 - RESIDENCE LINE

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2232
BUILDING	1.0000	0.2847
BLDG ENTRANCE CABLE	1.0000	0.3832
INTRABLDG CABLE	1.0000	0.3832
AERIAL CABLE (COPPER)	1.0000	0.3943
BURIED CABLE (COPPER)	1.0000	0.3377
UNDERGROUND (CU) CA.	1.0000	0.3573
CO EQPT - LOW CAP TERM	1.0000	0.3791
CO EQPT - LOW CAP CHAN	1.0000	0.3791
CO EQPT - HI CAP TERM	1.0000	0.3791
CO EQPT - HI CAP CHAN	1.0000	0.3791
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3368
AERIAL CABLE (FIBER)	1.0000	0.2893
BURIED CABLE (FIBER)	1.0000	0.2664
UNDERGROUND (FO) CA.	1.0000	0.2599
CONNECTORS	1.0000	0.3791
MISC. COM EQP & PWR	1.0000	0.3791
POLE LINE	1.0000	0.3717
CONDUIT	1.0000	0.2431

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - EQUIP_INV
Sheet 1 of 1

DATA REFERENCE TABLE
EQUIPMENT & OTHER INVESTMENTS
FOR

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

INVESTMENT YEAR: 1996
SERVICE LEVEL: NARBAND
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Jan-97
15:02

EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)

	CENTRAL OFFICE			REMOTE LOCATION	
	LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL
AIR DRYERS INVESTMENT:					
For an AERIAL Installed Cable Pair			$ 0.00		
For a BURIED Installed Cable Pair			$ 0.00		
For an UNDERGROUND Installed Cable Pair			$ 0.00		
CENTRAL OFFICE TERMINATION INVESTMENT :					
For each cable pair associated with twisted pair copper cable			$ 0.00		
For each per cable pair associated with digital loop carrier technology			$ 0.00		
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :					
For each line repeater for one copper digroup (not svc lev)	$ 0.00				
For an Office Repeater Bay for a T1 Line	$ 0.00				
For a Universal DLC Equipment Arrangement	$ 0.00	$ 87.51	$ 12.14	$ 85.28	$ 51.57
For an Integrated DLC Equipment Arrangement	$ 0.00	$ 0.00	$ 0.00	$ 85.28	$ 51.57
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :					
1. For a Hub with nonFiber Extensions or nonHub Arrangement		$ 19.62	$ 2.35	$ 18.49	$ 2.35
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement		$ 0.00	$ 0.00	$ 0.00	$ 0.00
3. For a Fiber HUB and Fiber Remote Terminal Arrangement				$ 0.00	$ 0.00
4. For Fiber Ring Hub Arrangements (Extensions)				$ 0.00	$ 0.00
CEV HOUSING per CIRCUIT by SERVICE LEVEL :					
For CEV's used as fiber hubs for FO Muliplexer equipment					$ 0.00
For CEV's used as remote terminals for CDLC equipment					$ 0.00

[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1,or DS3 service equiv.]

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TABLE - EQUIP_INV

Bellcore

HELP INFORMATION

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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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - ADDNL_INV
Sheet 1 of 2

INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORS
FOR

LCAT Rel : 1.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:23

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 3 - RESIDENCE LIN

PLANT UTILIZATION FACTORS:

Land	1.0000
Building	1.0000
ALL Copper Cables, or	
Copper Feeder Cable	0.6000
Copper Distribution Cable	0.3500
Copper Entrance Cable	1.0000
Copper Building Cable	0.3500
Copper Building Terminal	0.3500
ALL Fiber Cables, or	
Fiber Feeder Cable	0.3300
Fiber Distribution Cable	
Fiber Entrance Cable	
Fiber Building Cable	
Fiber Building Terminal	
Poles	1.0000
Conduit	1.0000

ALL Non-Traffic Sensitive Equipment	1.0000
ALL Digital Loop Carrier Equip., or	0.7000
CO DLC Channel Unit	0.7000
REM DLC Channel Unit	0.7000
CO DLC Multiplex System	0.7000
REM DLC Multiplex System	0.7000
CO Digital Signal Crossconnect Bay	0.7000
REM Digital Signal Crossconnect Bay	0.7000
ALL Fiber Optic Multiplex Equip., or	1.0000
CO Fiber Optic Channel Unit	1.0000
REM Fiber Optic Channel Unit	1.0000
CO Fiber Optic Multiplex System	1.0000
REM Fiber Optic Multiplex System	1.0000
CO Lightguide Terminating Equipment	1.0000
REM Lightguide Terminating Equipment	1.0000
Remote Housing: CEV	1.0000
PC Hut	1.0000
Comm. Svc. Cab.	1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN

Bellcore (R)
LCAT Rel : 1.0.4
Issued : 3/31/95

NOTE :

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

❷ 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.

❸ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE – ADDNL_INV
Sheet 2 of 2

INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORS
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 – RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 3/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09–Dec–96
TIME: 10:23

	SEGMENT ..... DISTRIBUTION ❷	FEEDER use *DEFAULT*
POLE LOADINGS:		
Copper Cable Pole Investment Factor	0.2530	0.2530
Copper Cable Pole Unit Investment		
Fiber Cable Pole Investment Factor	0.1965	0.1965
Fiber Cable Pole Unit Investment		
CONDUIT LOADINGS:		
Copper Cable Conduit Investment Factor	0.5165	0.5165
Copper Cable Conduit Unit Investment		
Fiber Cable Conduit Investment Factor	0.5232	0.5232
Fiber Cable Conduit Unit Investment		

DROP WIRE (DW) INVESTMENT ADJUSTMENT:

The Cable PFI is being Adjusted for DW ?	NO
Aerial Cable	
Buried Cable	
Underground Cable	

	use *DEFAULT* ❶ for: CENT. OFC.	❷ REMOTE SITE
LAND LOADING FACTORS:		
Other or *ALL* ❶	0.0056	0.0056
Digital Loop Carrier	0.0056	0.0056
Fiber Optic Mux	0.0056	0.0056
BUILDING LOADING FACTORS:		
Other or *ALL* ❶	0.1316	0.1316
Digital Loop Carrier	0.1316	0.1316
Fiber Optic Mux	0.1316	0.1316
MISC. EQUIPMENT & POWER LOADING FACTORS:		
Other or *ALL* ❶	0.1127	0.1127
Digital Loop Carrier	0.1127	0.1127
Fiber Optic Mux	0.1127	0.1127

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TABLE – ADDNL_INV
Sheet 2 of 2

HELP SCREEN

Bellcore (R)
LCAT Rel : 1.0.4
Issued : 3/31/95

Copper Cable Pole Investment Factor	cplff	_dst	_fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cplfi	_dst	_fdr	Per unit length of aerial copper cable effective pair feet placed.
Fiber Cable Pole Investment Factor	fplff	_dst	_fdr	Based on aerial fiber cable investment relationship to pole
Fiber Cable Pole Unit Investment	fplfi	_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

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

❷ 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.

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT – PLANT_CHAR.
Sheet 1 / 5

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

LOOP FACILITY INPUT
LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 – RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09–Dec–95
TIME : 10:48

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

❶ Average Distance From the Central Office to the Service Access Point
❷ Average Distance From the Serving Area Interface to the Service Access Point
❸ Average Distance From the Remote Terminal to the Serving Area Interface
❹ Average Distance From the Central Office to the Fiber Hub or S.A.I.
❺ Average Distance From the Fiber Hub to the Remote Terminal

ACTION SEGMENT	
PRIMARY	STAR
PRIMARY	NA
DISTRIBUTION	STAR

TOTAL LOOP	6825.0
DISTRIBUTION	1981.0
SUB–PRIMARY	300.0
PRIMARY	4544.0
PRIMARY–EXTENSION	

LOOP LENGTH AT EACH COST BAND

BAND 1	
BAND 2	
BAND 3	
BAND 4	
BAND 5	
LAST	6825.0

DISTRIBUTION OF COST BANDS IN THE NETWORK

BAND 1	
BAND 2	
BAND 3	
BAND 4	
BAND 5	
LAST	1.0000

1.0000 Hint

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LOOP COST ANALYSIS TOOL

Bellcore (R)

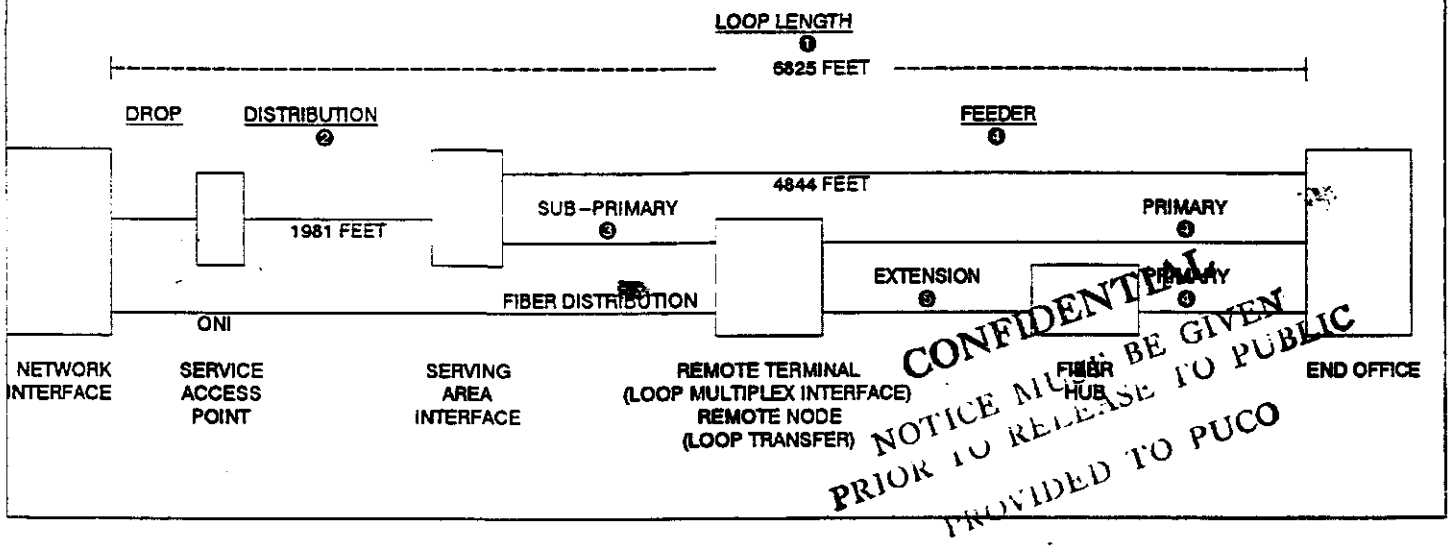
INPUT - PLANT_CHAR.
Sheet 1 / 1

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

LOOP FACILITY INPUT
LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel :1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:48

FLAT RATE BASIS DATA WITHOUT COST BANDS
FOR A NETWORK CIRCUIT CASE STUDY



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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT C-AR.
Sheet 1 of 2

LOOP FACILITY INPUT
HELP SCREEN

LCAT Rel :1.0.4
Issued : 07/31/95

AVERAGE NETWORK STUDY -

This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.

INDIVIDUAL CIRCUIT STUDY -

This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.

DATA SAMPLE NETWORK STUDY -

This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.

BANDWIDTH AVERAGING -

This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations.

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

PRESS "ENTER" TO RETURN TO THE MAIN MENU

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INPUT - PLANT CHAR.
Sheet 2 of 2

LOOP COST ANALYSIS TOOL

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

HELP SCREEN

COST DETAILS

When the Loop Study is specified as DISTANCE SENSITIVE, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimeters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User.
When the Loop Study is specified as FLAT RATE, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.

LOOP TOPOLOGY

When the Loop Topology (circuit layout format) for the Feeder Layer is specified as STAR, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as RING, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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LOOP COST ANALYSIS TOOL

Bellcore

INPUT - PLANT_CHAR.
Sheet 2a / 5

LOOP FACILITY INPUT
FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER
FOR

LCAT Rel : 1.0.4
Issued : 07/31/95

COMPANY: 0
CITY / AREA: 0
STATE / PROV: 0

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 10:48

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A

		CAPACITY [C]	idx	AERIAL FIBER CUMULATIVE FEEDER LENGTH [D_A]	AERIAL FIBER EFFECTIVE LENGTH BY PAIR FOOT [E_A]	BURIED FIBER CUMULATIVE FEEDER LENGTH [D_B]	BURIED FIBER EFFECTIVE LENGTH BY PAIR FOOT [E_B]	UNDERGROUND FIBER CUMULATIVE FEEDER LENGTH [D_U]	UNDERGROUND FIBER EFFECTIVE LENGTH BY PAIR FOOT [E=D/C]
4	FIBER CABLE	2 pr			0.0		0.0		0.0
6	FIBER CABLE	3 pr			0.0		0.0		0.0
12	FIBER CABLE	6 pr			0.0		0.0		0.0
18	FIBER CABLE	9 pr			0.0		0.0		0.0
24	FIBER CABLE	12 pr			0.0		0.0		0.0
36	FIBER CABLE	18 pr			0.0		0.0		0.0
48	FIBER CABLE	24 pr			0.0		0.0		0.0
60	FIBER CABLE	30 pr			0.0		0.0		0.0
72	FIBER CABLE	36 pr			0.0		0.0		0.0
84	FIBER CABLE	42 pr			0.0		0.0		0.0
96	FIBER CABLE	48 pr			0.0		0.0		0.0
144	FIBER CABLE	72 pr			0.0		0.0		0.0
192	FIBER CABLE	96 pr			0.0		0.0		0.0
216	FIBER CABLE	108 pr			0.0		0.0		0.0

CUMULATIVE LENGTHS OF FEEDER :

AERIAL FIBER SUBTOTAL	0
BURIED FIBER SUBTOTAL	0
UNDGRD FIBER SUBTOTAL	0
FIBER SUBTOTAL	0

EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT :

AERIAL FIBER SUBTOTAL	0.0
BURIED FIBER SUBTOTAL	0.0
UNDGRD FIBER SUBTOTAL	0.0
FIBER SUBTOTAL	0.0

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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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

STUDY YR : 1996
TEST CASE : 1

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

LAST UPDATE: 09-Dec-95

SERVICE CLASS: BAND 3 - RESIDENCE LINE

TIME : 10:48

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A / [F]WKSH C
CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INVFACILITY WKSH B

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

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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
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-96
TIME: 10:48

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A
CUMULATIVE LENGTHS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR - WORKSHEET 3B
Sheet 3b / 5

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 07/31/95

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

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-95
TIME : 10:48

SERVICE CLASS: BAND 3 - RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore

INPUT - PLANT_CHAR.
Sheet 4a / 5

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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-96
TIME : 10:48

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A
CUMULATIVE LENGTHS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR – WORKSHEET 4B
Sheet 4b / 5

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 07/31/95

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-96
TIME : 10:46

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

SERVICE CLASS: BAND 3 – RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT – PLANT_CHAR.
Sheet 5 / 5

LOOP FACILITY INPUT
DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX
FOR

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-95
TIME : 10:48

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 – RESIDENCE LINE

FIBER BANDWIDTH
TRANSMISSION FLOW IS : [X] UNIDIRECTIONAL
[ ] BIDIRECTIONAL

LEVEL OF SERVICE : NARBAND

BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL MULTIPLE [SLM]	PROTECTION n : 1 [E]	WEIGHTED EQUIVALENT CHANNELS PER FO PAIR [F]
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0			
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0			
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0			
FEEDER – PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04
FEEDER – EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04

FOOTNOTES
1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND}, TIMES {2 for Unidirectional and 4 for Bidirectional}.
2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 –>7} DIVIDED BY {The [SLM]}, TIMES {1 PLUS 1 OVER PROT ___[E]}

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PLANT CHAR. – WORKSHEET DS
Sheet 1 / 1

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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-95
TIME : 10:46

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig tbl)

	SELECT	MODE	HIERARCY	BNDWDTH	DS1MULT	DS3MULT	VGE	MEDIA
0								
1			DS1	1.5 Mbps	1	0.04	24	BIDIR,2WCU CA
2		MODE3	DS1	1.5 Mbps	1	0.04	24	UNDIR,2WCU CA
3			VT1.5	1.5 Mbps	1	0.04	24	UNDIR,FIBER
4			VT2	2 Mbps	1	0		UNDIR,FIBER
5			E1	2 Mbps	1	0.05	30	BIDIR,2WCU CA
6		MODE1	DS1C	3.2 Mbps	NA		48	BIDIR,2WCU CA
7		MODE2	DS1C	3.2 Mbps	2	0.07	48	BIDIR,2WCU CA
8			VT3	3.2 Mbps	2	0.07	56	UNDIR,FIBER
9				4 Mbps	2	0	60	
10			DS2	6.3 Mbps	4	0.14	72	BIDIR,2WCU CA
11		MODE4	DS2	6.3 Mbps	NA	0	72	BIDIR,2WCU CA
12			VT6	6.3 Mbps	4	0.14	84	UNDIR,FIBER
13			E2	8 Mbps	4	0.25	120	BIDIR,2WCU CA
14			E3	34 Mbps	16	1	480	
15	X		DS3	45 Mbps	28	1	672	BIDIR,2WCU CA
16		STS1	OC1	50 Mbps	28	1	672	UNDIR,FIBER
17	X			90 Mbps		2	1344	UNDIR,FIBER
18				90 Mbps		2	1344	BIDIR,MW RADIO
19			DS4	135 Mbps		3	2016	UNDIR,FIBER
20				135 Mbps		3	2016	BIDIR,MW RADIO
21			DS4NA	139 Mbps		3	2016	UNDIR,FIBER
22			E4	140 Mbps		3	1920	UNDIR,FIBER
23		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		9	6048	UNDIR,FIBER
28			OC9	466 Mbps		9	6048	UNDIR,FIBER
29			OC12	560 Mbps		12	7680	UNDIR,FIBER
30				585 Mbps		12	8064	UNDIR,FIBER
31				1.2 Gbps		24	16128	UNDIR,FIBER
32				1.7 Gbps		36	24192	UNDIR,FIBER
33			OC24	1.8 Gbps		24	24192	UNDIR,FIBER
34				2.5 Gbps		24	34560	UNDIR,FIBER
35								
36								
	0	1	2	3	4	5	6	7
	OFFSET							

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PLANT_CHAR. - WORKSHEET F
Sheet 1 of 1

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

LOOP LENGTH DEVELOPMENT WORKSHEET
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 - RESIDENCE
WORKSHEET F

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR.: 1996
TEST CASE: 1
LAST UPDATE : 09-Dec-96
TIME : 10:48

[A] DISTANCE INCREMENTS : 0 / 4 MILE BETWEEN BANDS
[B] NUMBER OF BANDS : 0 TO BE CARRIED INTO THE STUDY

[R] ROUTE TO AIR RATIO : 1.539947 rtaratio
[K] UNIT MILE / FEET CONSTANT : 1320

BAND NUMBER [C]	TOTAL WORKING FEET [D=input]	TOTAL WORKING FEET [E=(B*D)]	TOTAL AIR FEET [F=A*C*K]	LOOP LENGTH @ MIDPOINT [G (see note)]	WORKING FEET @ MIDPOINT [H=G*R]
1		0		0	0
2		0		0	0
3		0		0	0
4		0		0	0
5		0		0	0

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

ERROR MESSAG 0

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LOOP COST ANALYSIS TOOL

Bellcore (R)

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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-95
TIME : 10:48

WORKSHEET SA

Sub Feeder Allocation Table

OFFSET

0	1	2	3	4	5	6	8	9	10
Sub Feeder Allocation Table				seglgth alloc					
cur lplgth 6825						COLOCATED RT AND CP, where			
dclDepl = 18000		NO COLOCAT	dstopo = BUS			COLOCATED Fdstopo = BUS			
[B]distspa 1981		dstopo = STAF	dstopo = BUS			dstopo = STAF	dstopo = BUS		
nom_rangcur-diss		subfeed	prifeedesubfeed		prifeeder	subfeed	prifeedesubfeed	prifeeder dif	
[C]	[D=C-I	[E]	[F=D-E	[G]	[H=D-G]	[I]	[J=C-I	[K]	[L=C-K]	[M=A-C]
0	0	0	0	0	0	0	0	0	0	6825
500	0	0	0	0	0	500	0	500	0	6325
1000	0	0	0	0	0	1000	0	1000	0	5825
2000	19	19	0	19	0	2000	0	2000	0	4825
3000	1019	1019	0	1019	0	3000	0	3000	0	3825
4000	2019	2019	0	2019	0	4000	0	4000	0	2825
5000	3019	3019	0	3019	0	5000	0	5000	0	1825
6000	4019	4019	0	4019	0	6000	0	6000	0	825
7000	5019	5019	0	5019	0	7000	0	7000	0	-175
8000	6019	6019	0	6019	0	8000	0	8000	0	-1175
9000	7019	7019	0	7019	0	9000	0	9000	0	-2175
10000	8019	8019	0	8019	0	10000	0	10000	0	-3175
11000	9019	9019	0	9019	0	11000	0	11000	0	-4175
12000	10019	10019	0	10019	0	12000	0	12000	0	-5175
13000	11019	11019	0	11019	0	13000	0	13000	0	-6175
14000	12019	12019	0	12019	0	14000	0	14000	0	-7175
15000	13019	13019	0	13019	0	15000	0	15000	0	-8175
16000	14019	14019	0	14019	0	16000	0	16000	0	-9175
17000	15019	15019	0	15019	0	17000	0	17000	0	-10175
18000	16019	8009.5	8009.5	0	16019	9000	9000	0	18000	-11175
19000	17019	8509.5	8509.5	0	17019	9500	9500	0	19000	-12175
20000	18019	9009.5	9009.5	0	18019	10000	10000	0	20000	-13175
50000	78019	16019	62000	1000	77019	16019	63981	1000	79000	-73175

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^{cst} Equals CUR_LPLGTH – NOM_RANGE difference

> DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{Star} Equals CUR_LPLGTH – NOM_RANGE difference

= > DLCDEPL, then CUR_SEGLGTH^{ptar} 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.

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OHIO ONLY
3 Geographic Areas

07/26/96
Revised

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
Band 1							
1	0-12,000	6,081	1,103	7,184	5,765	638	6,403
2	# Of Entries	107			255		
3	12,001-INFINITY	14,881	2,346	17,228	13,630	2,046	15,677
4	# Of Entries	53			38		
5	Ratio						
6	0-12,000	0.5744			0.7433		
7	12,001-INFINITY	0.4256			0.2567		
		1.0000			1.0000		
Band 2							
8	0-14,000	6,697	1,836	8,534	5,698	1,013	6,711
9	# Of Entries	69			90		
10	14,001-INFINITY	19,582	2,699	22,282	21,785	1,989	23,774
11	# Of Entries	70			74		
12	Ratio	0.4964			0.5488		
13	0-14,000	0.5036			0.4512		
14	14,001-INFINITY	1.0000			1.0000		
Band 3							
15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	58			30		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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OUTPUT - REPORT D
SHEET 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT SUMMARY REPORT

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

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

CIRCUIT DESIGN : TOTAL TECHNOLOGIES
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

Loop Span Set Weighting : 1

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

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE SEG.LGTH.	FEEDER PRIMARY	FEEDER EXTENSION	FEEDER SUB-	DISTRIBUTION	NETWORK INTERFACE	WEIGHTED TOTAL LOOP
SHARED RESOURCES							
LAND	20C	$ 0.03	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0324
BUILDING	10C	$ 0.97	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.9703
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP TERM	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP CHAN	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.43	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.4330
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES							
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.40	$ 2.3950
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.15	$ 10.98	$ 0.00	$ 11.1300
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.01	$ 11.21	$ 0.00	$ 11.2200
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.03	$ 0.00	$ 0.00	$ 0.0300
CO EQPT - LOW CAP TERM	257C	$ 2.88	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.8753
CO EQPT - LOW CAP CHAN	257C	$ 7.80	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 7.7982
CO EQPT - HI CAP TERM	857C	$ 0.71	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.7099
CO EQPT - HI CAP CHAN	857C	$ 1.20	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 1.2040
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.13	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.1327
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.03	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0323
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.03	$ 0.00	$ 0.04	$ 2.62	$ 0.00	$ 2.6935
CONDUIT	4C	$ 0.02	$ 0.00	$ 0.01	$ 0.00	$ 0.00	$ 0.0258
SPAN SUMMARY		$ 14.24	$ 0.00	$ 0.24	$ 24.81	$ 2.40	$ 41.68
							$ 41.68

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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-UNBUNDLED) RESIDENCE LINE STUDY 18001 FEET - INF

CURRENT TEST PLAN :

CURRENT JOB IDENT.	CINCINNATI			
BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	20-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	13:26
CST METH	UN INCR	INV LEVEL : ANNCOST		TIME

....your report is ready for viewing

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OUTPUT - WORKSHEET D
SHEET 1 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 : 1 CDLC
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

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

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	FEEDER SUB-	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.03		$ 0.00	$ 0.00		$ 0.03	$ 0.03
BUILDING	10C	$ 0.82		$ 0.00	$ 0.00		$ 0.82	$ 0.82
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	$ 0.35		$ 0.00	$ 0.00		$ 0.35	$ 0.35
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.40	$ 2.40	$ 2.40
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 2.88		$ 0.15	$ 10.98		$ 14.01	$ 14.01
BURIED CABLE (COPPER)	45C	$ 0.20		$ 0.01	$ 11.21		$ 11.42	$ 11.42
UNDERGROUND (CU) CA.	5C	$ 0.51		$ 0.03	$ 0.00		$ 0.54	$ 0.54
CO EQPT - LOW CAP TERM	257C	$ 3.57		$ 0.00	$ 0.00		$ 3.57	$ 3.57
CO EQPT - LOW CAP CHAN	257C	$ 7.80		$ 0.00	$ 0.00		$ 7.80	$ 7.80
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	$ 0.69		$ 0.04	$ 2.62		$ 3.35	$ 3.35
CONDUIT	4C	$ 0.18		$ 0.01	$ 0.00		$ 0.19	$ 0.19
SPAN SUMMARY		$ 17.04	$ 0.00	$ 0.24	$ 24.81	$ 2.40	$ 44.49	$ 44.49
CIRCUIT DESIGN SUMMARY							$ 44.49	

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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 LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
DATE : 27-Jan-97
TIME : 09:11

Circuit Design Mix : 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

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

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OUTPUT - WORKSHEET D
SHEET 3 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 : MELDED CDLC
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

Technology Type Mix : 0.0000

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

PLANT ITEM DESCRIPTION	PLANT SEG. NAME / EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	FEEDER SUB-	DISTRIBUTION	NETWORK INTERFACE	TOTAL LOOP	TECHNOLOGY WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.03	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.03	$ 0.0000
BUILDING	10C	$ 0.82	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.82	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP TERM	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP CHAN	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.35	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.35	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.40	$ 2.40	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 2.88	$ 0.00	$ 0.15	$ 10.98	$ 0.00	$ 14.01	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.20	$ 0.00	$ 0.01	$ 11.21	$ 0.00	$ 11.42	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.51	$ 0.00	$ 0.03	$ 0.00	$ 0.00	$ 0.54	$ 0.0000
CO EQPT - P GAIN TERM	257C	$ 3.57	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 3.57	$ 0.0000
CO EQPT - P GAIN CHAN	257C	$ 7.80	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 7.80	$ 0.0000
CO EQPT - FO MUX TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - FO MUX CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.69	$ 0.00	$ 0.04	$ 2.62	$ 0.00	$ 3.35	$ 0.0000
CONDUIT	4C	$ 0.18	$ 0.00	$ 0.01	$ 0.00	$ 0.00	$ 0.19	$ 0.0000
SPAN SUMMARY		$ 17.04	$ 0.00	$ 0.24	$ 24.61	$ 2.40	$ 44.49	$ 0.00
TECHNOLOGY DESIGN SUMMARY							$ 44.49	

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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

COMPANY:	CINCINNATI BELL TEL.	CIRCUIT DESIGN :	2 FOMUX
CITY / AREA:	CINCINNATI	LOOP SPAN DIVISION :	ALL LOOP SPANS
STATE / PROV :	OHIO	SERVICE CLASS :	BAND 3 - RESIDENCE LIN
JOB IDENT. :	CINCINNATI	TOTAL LOOP LENGTH :	28127 FEET

STUDY YR :	1996
TEST CASE :	1
RUN DATE :	27-Jan-97
TIME :	09:11

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

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

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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

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 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

Circuit Design Mix : 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	SUB-	DISTRIBUTION	NETWORK INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.03		$ 0.00	$ 0.00		$ 0.03	$ 0.03
BUILDING	10C	$ 0.97		$ 0.00	$ 0.00		$ 0.97	$ 0.97
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - LOW CAP TERM	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - LOW CAP CHAN	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - HI CAP TERM	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - HI CAP CHAN	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - ANALOG SW	77C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - DIGITAL SW	377C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONNECTORS	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
MISC. COM EQP & PWR	57C	$ 0.43		$ 0.00	$ 0.00		$ 0.43	$ 0.43
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.40	$ 2.40	$ 2.40
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.15	$ 10.98		$ 11.13	$ 11.13
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.01	$ 11.21		$ 11.22	$ 11.22
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.03	$ 0.00		$ 0.03	$ 0.03
CO EQPT - LOW CAP TERM	257C	$ 2.88		$ 0.00	$ 0.00		$ 2.88	$ 2.88
CO EQPT - LOW CAP CHAN	257C	$ 7.80		$ 0.00	$ 0.00		$ 7.80	$ 7.80
CO EQPT - HI CAP TERM	857C	$ 0.71		$ 0.00	$ 0.00		$ 0.71	$ 0.71
CO EQPT - HI CAP CHAN	857C	$ 1.20		$ 0.00	$ 0.00		$ 1.20	$ 1.20
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	$ 0.13		$ 0.00	$ 0.00		$ 0.13	$ 0.13
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.03		$ 0.00	$ 0.00		$ 0.03	$ 0.03
CONNECTORS	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
MISC. COM EQP & PWR	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
POLE LINE	1C	$ 0.03		$ 0.04	$ 2.62		$ 2.69	$ 2.69
CONDUIT	4C	$ 0.02		$ 0.01	$ 0.00		$ 0.03	$ 0.03
SPAN SUMMARY		$ 14.24	$ 0.00	$ 0.24	$ 24.94	$ 2.40	$ 41.68	$ 41.68
							$ 41.68	

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C:\123R24\LCATR075 RESULTS1
OUTPUT – WORKSHEET D
SHEET 7 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 : 4 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 – RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27–Jan–97
TIME : 09:11

Circuit Design Mix : 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

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

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C:\123R24\LCATR075\RESULTS1
OUTPUT - WORKSHEET D
SHEET 8 of 10

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®

LCAT Rel : 1.0.4
Issued : 7/31/95

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

CIRCUIT DESIGN : 5 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

Circuit Design Mix : 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

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

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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 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

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

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

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OUTPUT - WORKSHEET D
SHEET 10 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 : MELDED FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE LIN
TOTAL LOOP LENGTH : 28127 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 27-Jan-97
TIME : 09:11

Technology Type Mix : 1.0000

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

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	DISTRIBUTION NETWORK SUB-	DISTRIBUTION NETWORK	DISTRIBUTION NETWORK INTERFACE	TOTAL LOOP	TECHNOLOGY WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.03	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.03	$ 0.0324
BUILDING	10C	$ 0.97	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.97	$ 0.9703
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	$ 0.43	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.43	$ 0.4330
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.40	$ 2.40	$ 2.3950
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	$ 0.15	$ 10.98	$ 0.00	$ 11.13	$ 11.1300
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.01	$ 11.21	$ 0.00	$ 11.22	$ 11.2200
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.03	$ 0.00	$ 0.00	$ 0.03	$ 0.0300
CO EQPT - LOW CAP TERM	257C	$ 2.88	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.88	$ 2.8753
CO EQPT - LOW CAP CHAN	257C	$ 7.80	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 7.80	$ 7.7982
CO EQPT - HI CAP TERM	857C	$ 0.71	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.71	$ 0.7099
CO EQPT - HI CAP CHAN	857C	$ 1.20	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 1.20	$ 1.2040
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	$ 0.13	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.13	$ 0.1327
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.03	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.03	$ 0.0323
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	$ 0.03	$ 0.00	$ 0.04	$ 2.62	$ 0.00	$ 2.69	$ 2.6935
CONDUIT	4C	$ 0.02	$ 0.00	$ 0.01	$ 0.00	$ 0.00	$ 0.03	$ 0.0258
SPAN SUMMARY		$ 14.24	$ 0.00	$ 0.24	$ 24.81	$ 2.40	$ 41.68	$ 41.68
							$ 41.68	

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Bellcore (R)

RUN - DIST PLNT

LAST UPDATE
27-Jan-97
08:45

LCAT

LOOP COST ANALYSIS TOOL

Release: 1.0.4
Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

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

CURRENT TEST PLAN :

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

Your run is finished

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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

Bellcore (R)

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1995
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:06

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 3 – RESIDENCE LINE

SEGMENT LENGTH IN FEET [A]	TYPE OF CABLE PLANT	FROM – TABLE 2 – RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM – TABLE 4 – CABLE INVESTMENT PER PAIR FOOT [D]	CABLE COMPONENTS: CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*fctr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fctr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
4826.0	AERIAL	0.580000	2799.1	0.041800	117.00		0.00	0.00	
CONSIDERS:	BURIED	0.420000	2026.9	0.068800	139.45		0.00	0.00	
MELDED COPPER CABLE	UNDERGRND	0.000000	0.0	0.000000	0.00		0.00	0.00	
	Check =	1.000000	4826.0						

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:	inv rtn fctr :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 84.58	
UG CONDUIT FACTOR (UCf) =	0.0000	0.5165
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =	$ 0.00	

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)

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A C:\123R24\LCATCALC\DIST
B DIST_PLNT – WORKSHEET A
C Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

Bellcore (R)

LCAT Release : 1.0.4
Issue Date : 8/31/95

D FACILITY TYPE : COPPER CABLE
E COMPANY: CINCINNATI BELL TEL. CIRCUIT SEGMENT : DISTRIBUTION PLANT/NON-DLC,NON-COLLOC
F CITY / AREA: CINCINNATI
G STATE / PROV : OHIO SERVICE CLASS : BAND 3 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:06

	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	117.00	1		$ 117	0.3500		$ 334
13	BURIED CABLE (COPPER)	45C	V	DIRECT	139.45	1		$ 139	0.3500		$ 398
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. COM EQP & PWR	57C	V	SHARED					1.0000		
26	POLE LINE	1C	F	DIRECT	84.58	1		$ 85	1.0000		$ 85
27	CONDUIT	4C	F	DIRECT	0.00				1.0000		
										$ 0	$ 817
											$ 817
											distinviy

FOOTNOTES

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

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

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

LOOP COST ANALYSIS TOOL

PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON–DLC,NON–COLLOC
SERVICE CLASS: BAND 3 – RESIDENCE LINE

Bellcore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 27–Jan–97
TIME: 09:06

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		$ 334	0.3943		$ 131.81		$ 10.98
BURIED CABLE (COPPER)	45C	1.0000		$ 398	0.3377		$ 134.55		$ 11.21
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – P GAIN TERM	257C	1.0000			0.3791				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		$ 85	0.3717		$ 31.44		$ 2.62
CONDUIT	4C	1.0000			0.2431				
			dstshrinv	dstdirinv					
TOTALS			$ 0	$ 817		$ 0.00	$ 297.80	$ 0.00	$ 24.81
				$ 817			$ 297.80		$ 24.81
				distinvsy			distann		distmrc

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

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DIST_PLNT -- WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:06

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

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

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

	from length	from invest. :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 0.00	

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PROVIDED TO PUCO

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

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DIST_PLNT – WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

Bellcore(R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27–Jan–97
TIME : 09:06

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

FACILITY TYPE : COPPER_CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

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

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PROVIDED TO PUCO

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

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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 : 27-Jan-97
TIME : 09:06

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3832		$ 28.74		$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – P GAIN TERM	257C	1.0000			0.3791				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 28.74	$ 0.00	$ 2.40
				$ 75			$ 28.74		$ 2.40
				bctinvsy			bctannr		bctmrc

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

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DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:06

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

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

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

	from length	from invest. :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 0.00	

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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DIST_PLNT – WORKSHEET 8
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release : 1.0.4
STUDY YR. : 1996
TEST CASE: 1
RUN DATE : 27–Jan–97
TIME : 09:06

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

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

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

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DIST_PLNT – WORKSHEET 8
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 : 27-Jan-97
TIME : 09:06

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS : BAND 3 – RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3832		$ 28.74		$ 2.40
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – P GAIN TERM	257C	1.0000			0.3791				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3791				
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000			0.3717				
CONDUIT	4C	1.0000			0.2431				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 28.74	$0.00	$ 2.40
				$ 75			$ 28.74		$ 2.40
				bctdirvsy			bctshrn		bctdirn

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... TO RELEASE ... PUBLIC
... NO

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

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DIST_PLNT - REPORT 14A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore(R)

LCAT Release : 1.0.4
Issue Date : 8/31/95

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 3 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:06

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

	PLANT ACCT CODE	BAND MIX AVG. LGTH.	0 1.0000 28127					(See Note) TOTAL AVG. WEIGHTED INVESTMENT
PLANT ITEM		SEG. LGTH.	4826.0					4826
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		$ 10.98					$ 10.98
BURIED CABLE (COPPER)	45C		$ 11.21					$ 11.21
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		$ 2.62					$ 2.62
CONDUIT	4C							$ 0.00
SPAN SUMMARY			$ 24.81	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00
AVG. WTD. SPAN SUMMARY			$ 24.81	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00
NOTE:			[sum(INV$_{ACCT}^{BAND}$ * MIX^{BAND})]					$ 24.81

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NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC
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C:\123R24\LCATCALC\DIST
DIST_PLNT - REPORT 148
Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore(R)
LCAT
Release : 1.0.4

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

CIRCUIT SEGMENT : SERVICE ACCESS
SERVICE CLASS: BAND 3 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:06

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

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

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RUN – SUB PRI

LAST UPDATE
27–Jan–97
08:46

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

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL – BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO–UNBUNDLED) RESIDENCE LINE STUDY 18001

CURRENT TEST PLAN :

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

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SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore (R)

BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR : 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:07

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

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION			MISC. COMMON EQPT. & POWER FACTOR =	0.112700
(CO CONN) CONNECTORS (coi77c) =	$ 0.00		MCE&P INVESTMENT (CO CONN x FACTOR) =	$ 0.00
	inv / unit lgth:	inv rltn fctr :		
POLE LINE FACTOR =	0.000000	0.253000	LAND FACTOR =	0.00560
POLE LINE INVESTMENT =	$ 1.16		LAND NVST (CO CONN + MCE&P) x FACTOR =	$ 0.00
(UTIL AERIAL INVEST x PLf)			BUILDING FACTOR =	0.13160
			BLDG NVST (CO CONN + MCEP) x FACTOR =	$ 0.00
UG CONDUIT FACTOR =	0.000000	0.516500		
CONDUIT INVESTMENT =	$ 0.46		PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
(UTIL UNDGRND INVEST x UCf)			PERCENT OF CO CONN AT ANALOG SWITCHES	0.0000

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.
NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)
NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.
NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).

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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: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 3 – RESIDENCE LINE

Bellcore (R)
LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:07

PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	2.75	1		$3	0.6000		$5
BURIED CABLE (COPPER)	45C	V	DIRECT	0.23	1		$0	0.6000		$0
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.54	1		$1	0.6000		$1
CO EQPT – LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT – LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT – HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT – HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT – ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT – DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	1.16	1		$1	1.0000		$1
CONDUIT	4C	F	DIRECT	0.46	1		$0	1.0000		$0
									$0	$7
TOTALS										$7

culpinvly

FOOTNOTES

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

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SUB_PRI – WORKSHEET
Sheet 1 of 3

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 3 – RESIDENCE LINE

Bellcore(R)
LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:07

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT: SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2232				
BUILDING	10C	1.0000			0.2847				
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		$ 5	0.3943		$ 1.80		$ 0.15
BURIED CABLE (COPPER)	45C	1.0000		$ 0	0.3377		$ 0.13		$ 0.01
UNDERGROUND (CU) CA.	5C	1.0000		$ 1	0.3573		$ 0.32		$ 0.03
CO EQPT – LOW CAP TERM	257C	1.0000			0.3791				
CO EQPT – LOW CAP CHAN	257C	1.0000			0.3791				
CO EQPT – HI CAP TERM	857C	1.0000			0.3791				
CO EQPT – HI CAP CHAN	857C	1.0000			0.3791				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FC) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000			0.3791				
POLE LINE	1C	1.0000		$ 1	0.3717		$ 0.43		$ 0.04
CONDUIT	4C	1.0000		$ 0	0.2431		$ 0.11		$ 0.01
SUBTOTALS			$ 0	$ 7		$ 0.00	$ 2.80	$ 0.00	$ 0.24
TOTALS				$ 7			$ 2.80		$ 0.24
				culpinvsy			aalpac		culpmrc

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

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SUB_PRI - REPORT 14
Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore(R)

LCAT Release : 1.0.4
Issue Date : 7/31/95

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

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

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 27-Jan-97
TIME : 09:07

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH						(SEE NOTE) TOTAL AVG. WEIGHTED
		BAND	0					
		PLANT MIX	1.0000					
		AVG. LGTH	28127					
		SEG.LGTH.	300					300
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		$ 0.15					$ 0.15
BURIED CABLE (COPPER)	45C		$ 0.01					$ 0.01
UNDERGROUND (CU) CA.	5C		$ 0.03					$ 0.03
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	0.0	$ 0.04					$ 0.04
CONDUIT	4C	0.0	$ 0.01					$ 0.01
SPAN SUMMARY			$ 0.24	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.24
AVG. WTD. SPAN SUMMARY			$ 0.24	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	

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

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LAST UPDATE
27-Jan-97
08:47

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

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

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

CURRENT TEST PLAN :

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

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CDLC_PLANT - WORKSHEET 1
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore

BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

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

FACILITY TYPE : COPPER DIG LOOP CXR
CIRCUIT DESIGN : T1 C
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 27-Jan-97
TIME : 09:08 AM

28127 cur_lgth
300 cursdr-lgth
f = 0.125 pgfactor

SEGMENT LENGTH IN FEET [A]	TYPE OF CABLE PLANT	RELATIVE MIX OF TYPE OF CABLE PLANT [B]	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT [C=A*B*f]	MELDED INVEST. PER UNIT FOOT [D]	CABLE COMPONENTS (NOTE 5): CABLE INVESTMENT PER CHAN [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR [E*fctr]	(NOTE 4) DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	(NOTE 5) WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]
23001	AERIAL	0.810000	2328.85	0.022600	$ 52.63		$ 0.00		
CO TO RT LINK ON COPPER CABLE DLC	BURIED	0.040000	115.01	0.037800	$ 4.35		$ 0.00		
24.00 GA. FACILITIES	UNDERGRND	0.150000	431.27	0.024000	$ 10.35		$ 0.00		
		1.000000							

OUTSIDE PLANT LOADINGS (NOTE 5) :		DROP WIRE	AIR DRYER
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) :		TERM	CHAN
INT DLC EQUIP INVEST. (CU COMUX) =	intdlcco_	$ 0.00	$ 0.00
INT DLC EQUIP INVEST. (CU RTMUX) =	intdlcrt_	$ 51.57	$ 85.28
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdlcco_	-$ 12.14	$ 87.51
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdlcrt_	$ 51.57	$ 85.28
DLC EQUIP INVEST. (CU LINE) =	dlccol		$ 0.00
CONDUIT INVEST. FOR DLC CEV FACILITIES =	condgnvst	$ 0.00	
OTHER INVESTMENT		inv / unit lgth	:inv rtn fctr :
POLE LINE FACTOR (PLf) =		0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		$ 22.19	
UGD CONDUIT FACTOR (UCf) =		0.0000	0.5165
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) =		$ 8.91	

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 MCEPf) =	$ 15.42
MCE&P INVST. (CDLCMUX x MCEPf) =	$ 11.23
MCE&P INVST. (CO CONN x MCEPf) =	$ 0.00
OTHER INVESTMENT	
LAND FACTOR FOR DLC (LANDf_rem) =	0.0056
LAND FACTOR FOR DLC (LANDf_c.o.) =	0.0056
LAND INVST.(CU COMUX+MCEP) x LANDf =	$ 1.47
LAND INVST. ((CO CONN+MCEP) x LANDf) =	$ 0.00
BUILDING FACTOR FOR DLC (BLDGf_rem.) =	0.1316
BUILDING FACTOR FOR DLC (BLDGf_c.o.) =	0.1316
BLDG INVST.(CDLCMUX+MCEP) x BLDGf =	$ 34.63
BLDG INVST. ((CO CONN+MCEP) x BLDGf) =	$ 0.00

LOOP TOPOLOGY	STAR
AVERAGE NUMBER OF HUBS	NA
ADDITIONAL LENGTH OF RING OSP REQUIRED	NA
MIX OF CENT. OFC. ANALOG INTFC	0.0000
MIX OF CENT. OFC. DIGITAL INTFC	1.0000
MIX OF UNIVERSAL DLC INTFC	1.0000
MIX OF INTEGRATED DIGITAL INTFC	0.0000

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.

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CDLC_PLANT - WORKSHEET 1
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

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

FACILITY TYPE : COPPER DIG LOOP CXR
CIRCUIT DESIGN : 11C
SERVICE CLASS : BAND 3 - RESIDENCE LINE

Bellcore
LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 27-Jan-97
TIME : 09:08 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. UTIL LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	1.47	1	$ 1		1.0000	$ 1	
BUILDING	10C	F	SHARED	34.76	1	$ 35		1.0000	$ 35	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	52.63	1		$ 53	0.6000		$ 88
BURIED CABLE (COPPER)	45C	V	DIRECT	4.35	1		$ 4	0.6000		$ 7
UNDERGROUND (CU) CA.	5C	V	DIRECT	10.35	1		$ 10	0.6000		$ 17
CO EQPT - P GAIN TERM	257C	F	DIRECT	79.13	1		$ 79	0.7000		$ 113
CO EQPT - P GAIN CHAN	257C	V	DIRECT	172.79	1		$ 173	0.7000		$ 247
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00				1.0000		
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	11.23	1	$ 11		1.0000	$ 11	
POLE LINE	1C	F	DIRECT	22.19	1		$ 22	1.0000		$ 22
CONDUIT	4C	F	DIRECT	8.91	1		$ 9	1.0000		$ 9
TOTALS									$ 47	$ 503
										$ 551
										FEED1IY

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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CDLC_PLANT – WORKSHEET 1
Sheet 3 of 3

LOOP COST ANALYSIS TOOL

Bellcore

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

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

FACILITY TYPE : COPPER DIG LOOP CXR
CIRCUIT DESIGN : 1 C
SERVICE CLASS : BAND 3 – RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 27–Jan–97
TIME : 09:08 AM

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000	$ 1		0.2232	$ 0.33		$ 0.03	
BUILDING	10C	1.0000	$ 35		0.2847	$ 9.90		$ 0.82	
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000		$ 88	0.3943		$ 34.59		$ 2.88
BURIED CABLE (COPPER)	45C	1.0000		$ 7	0.3377		$ 2.45		$ 0.20
UNDERGROUND (CU) CA.	5C	1.0000		$ 17	0.3573		$ 6.16		$ 0.51
CO EQPT – P GAIN TERM	257C	1.0000		$ 113	0.3791		$ 42.86		$ 3.57
CO EQPT – P GAIN CHAN	257C	1.0000		$ 247	0.3791		$ 93.58		$ 7.80
CO EQPT – FO MUX TERM	857C	1.0000			0.3791				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3791				
CO EQPT – ESS – ANALOG	77C	1.0000			0.0000				
CO EQPT – ESS – DIGITAL	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000			0.2893				
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000			0.2599				
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000	$ 11		0.3791	$ 4.26		$ 0.35	
POLE LINE	1C	1.0000		$ 22	0.3717		$ 8.25		$ 0.69
CONDUIT	4C	1.0000		$ 9	0.2431		$ 2.17		$ 0.18
TOTALS			$ 47	$ 503		$ 14.48	$ 190.05	$ 1.21	$ 15.84
				$ 551			$ 204.53		$ 17.04
				FEED1SY			FEED1ANN		FEED1MRC

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

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CDLC_PLANT – REPORT 14.1
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

LCAT Release : 1.0.4
Issue Date : 8/31/95

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

FACILITY SEGMENT : PRIMARY FEEDER SEGMENT
CIRCUIT DESIGN: 1 COPPER DIG LOOP CXR
SERVICE CLASS : BAND 3 – RESIDENCE LINE

STUDY YR : 1996
TEST CASE : 1
DATE : 27–Jan–97
TIME : 09:09 AM

logic–14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT (SEE NOTE)

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG LGTH						TOTAL AVG. WEIGHTED INVESTMENT
			0					
			1.0000					
			28127					
	SEG.LGTH.		23001					23001
SHARED RESOURCES								
LAND	20C		$ 0.03					$ 0.03
BUILDING	10C		$ 0.82					$ 0.82
BLDG ENTRANCE CABLE	12C							$ 0.00
INTRABLDG CABLE	52C							$ 0.00
AERIAL CABLE (COPPER)	22C							$ 0.00
BURIED CABLE (COPPER)	45C							$ 0.00
UNDERGROUND (CU) CA.	5C							$ 0.00
CO EQPT – P GAIN TERM	257C							$ 0.00
CO EQPT – P GAIN CHAN	257C							$ 0.00
CO EQPT – FO MUX TERM	857C							$ 0.00
CO EQPT – FO MUX CHAN	857C							$ 0.00
CO EQPT – ANALOG SW	77C							$ 0.00
CO EQPT – DIGITAL SW	377C							$ 0.00
AERIAL CABLE (FIBER)	822C							$ 0.00
BURIED CABLE (FIBER)	845C							$ 0.00
UNDERGROUND (FO) CA.	85C							$ 0.00
CONNECTORS	57C							$ 0.00
MISC. COM EQP & PWR	57C		$ 0.35					$ 0.35
POLE LINE	1C							$ 0.00
CONDUIT	4C							$ 0.00
DIRECT RESOURCES								
LAND	20C							$ 0.00
BUILDING	10C							$ 0.00
BLDG ENTRANCE CABLE	12C							$ 0.00
INTRABLDG CABLE	52C							$ 0.00
AERIAL CABLE (COPPER)	22C		$ 2.88					$ 2.88
BURIED CABLE (COPPER)	45C		$ 0.20					$ 0.20
UNDERGROUND (CU) CA.	5C		$ 0.51					$ 0.51
CO EQPT – P GAIN TERM	257C		$ 3.57					$ 3.57
CO EQPT – P GAIN CHAN	257C		$ 7.80					$ 7.80
CO EQPT – FO MUX TERM	857C							$ 0.00
CO EQPT – FO MUX CHAN	857C							$ 0.00
CO EQPT – ANALOG SW	77C							$ 0.00
CO EQPT – DIGITAL SW	377C							$ 0.00
AERIAL CABLE (FIBER)	822C							$ 0.00
BURIED CABLE (FIBER)	845C							$ 0.00
UNDERGROUND (FO) CA.	85C							$ 0.00
CONNECTORS	57C							$ 0.00
MISC. COM EQP & PWR	57C							$ 0.00
POLE LINE	1C		$ 0.69					$ 0.69
CONDUIT	4C	*****	$ 0.18					$ 0.18
SPAN SUMMARY			17.04	0.00	0.00	0.00	0.00	17.04
AVG. WTD. SPAN SUMMARY			17.04	0.00	0.00	0.00	0.00	

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

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Bellcore (R)

RUN – FO MUX

LAST UPDATE
27–Jan–97
08:48

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 3 (OHIO–UNBUNDLED) RESIDENCE LINE STUDY 18001 FEE

CURRENT TEST PLAN :

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

....your run is finished

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FO_MUX – WORKSHEET 3
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

Bellcore

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

FOR PRIMARY FEEDER PLANT
FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 3 – RESIDI SERVICE LEVEL: NARBAND

LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 27–Jan–97
TIME : 09:09

from star_tbl : from bw_mix :
300 cur_sfdrlgth f = 1979.04 wtdeqvmn
15714 cur_prilgth

fo3pri_seglgth	SEGMENT LENGTH IN FEET [A]	TYPE OF CABLE PLANT	RELATIVE MIX OF TYPE OF CA. PLANT [B]	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT [C=A*B/f]	MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D]	CABLE COMPONENTS (NOTE 5) WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR [E*fctr]	(NOTE 4) DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	(NOTE 5) WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]
CO TO HUB LINK ON FIBER OPTIC FACILITIES	23001	AERIAL	0.810000	9.41	0.193000	1.82		0.00		
		BURIED	0.000000	0.00	0.000000	0.00		0.00		
		UNDERGRND	0.190000	2.21	0.222900	0.49		0.00		
			1.000000							

OUTSIDE PLANT LOADINGS (NOTE 5) :

		DROP WIRE	AIR DRYER
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)		TERM	CHAN
INT DLC EQUIP INVEST. (CU COMUX) =	intdlcco_	$ 0.00	$ 0.00
INT DLC EQUIP INVEST. (CU RTMUX) =	intdlcrt_	$ 51.57	$ 85.28
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdlcco_	$ 12.14	$ 87.51
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdlcrt_	$ 51.57	$ 85.28
FIBER MUX EQUIP. INV. (FO COMUX) =	hubmx0co_	$ 2.35	$ 19.62
FIBER MUX EQUIP. INV. (FO RTMUX) =	hubmx0rt_	$ 2.35	$ 18.49

OTHER INVESTMENT

		inv / unit lgth.:	inv rtn fctr :
POLE LINE FACTOR (PLf) =	fplf_	0.0000	0.1965
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		$ 1.08	
UNDERGROUND CONDUIT FACTOR (PLf) =	fucf_	0.0000	0.5232
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =		$ 0.78	

LOOP TOPOLOGY

	STAR
AVERAGE NUMBER OF HUBS	NA
ADDITIONAL LENGTH OF RING OSP REQUIRED	NA
MIX OF CENT. OFC. ANALOG INTFC	0.0000
MIX OF CENT. OFC. DIGITAL INTFC	1.0000
MIX OF UNIVERSAL DLC INTFC	1.0000
MIX OF CENT. OFC. INTEGRATED DLC INTFC	0.0000

EQUIPMENT INVESTMENT LOADINGS

INVST. PER CHAN. FOR CA TERM (CA CONN) =	$ 0.00
MISC. COM. EQPT. & POWER FACTOR (DLCrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) =	0.1127
MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) =	$ 13.71
MCE&P INVST. (MUXrem+DLCrem) x MCEPfrem) =	$ 17.77
MCE&P INVST. (CA CONN x MCEPfc.o.) =	$ 0.00
MCE&P INVST. (CA CONN x MCEPfrem) =	$ 0.00
LAND FACTOR FOR MUX EQP(LANDfrem) =	0.0056
LAND FACTOR FOR MUX EQP(LANDfrem) =	0.0056
LAND FACTOR FOR OTH (LANDfrem) =	0.0056
LAND FACTOR FOR DLC EQP(LANDfc.o.) =	0.0056
LAND FACTOR FOR MUX EQP(LANDfc.o.) =	0.0056
LAND FACTOR FOR OTH (LANDfc.o.) =	0.0056
LAND INVST.(DLC+MUX+MCEP) x LANDfc.o. =	$ 0.76
LAND INVST. (MUX+DLC+MCEP) x LANDfrem =	$ 0.96
BUILDING FACTOR FOR DLC EQP(BLDGfrem) =	0.1316
BUILDING FACTOR FOR MUX EQP(BLDGfrem) =	0.1316
BUILDING FACTOR FOR OTH(BLDGfrem) =	0.1316
BUILDING FACTOR FOR DLC EQP(BLDGfc.o.) =	0.1316
BUILDING FACTOR FOR MUX EQP(BLDGfc.o.) =	0.1316
BUILDING FACTOR FOR OTH(BLDGfc.o.) =	0.1316
BLDG INVST.(DLC+MUX+MCEP) x BLDGfc.o. =	$ 17.81
BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem) =	$ 23.09

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.

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FO_MUX – WORKSHEET 3
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

FOR PRIMARY FEEDER PLANT
FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 3 – RESID SERVICE LEVEL: NARBAND

Bellcore (R)
LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 27–Jan–97
TIME : 09:09

PLANT ITEM	PLANT ACCT CODE cmstart	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL utilstart	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]
LAND	20C	F	SHARED	1.74	1	$ 2		1.0000	$ 2	
BUILDING	10C	F	SHARED	40.90	1	$ 41		1.0000	$ 41	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000		
CO EQPT – LOW CAP TERM	257C	F	DIRECT	63.71	1		$ 64	0.7000		$ 91
CO EQPT – LOW CAP CHAN	257C	V	DIRECT	172.79	1		$ 173	0.7000		$ 247
CO EQPT – HI CAP TERM	857C	F	DIRECT	22.47	1		$ 22	1.0000		$ 22
CO EQPT – HI CAP CHAN	857C	F	DIRECT	38.11	1		$ 38	1.0000		$ 38
CO EQPT – ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT – DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT	1.82	1		$ 2	0.3300		$ 6
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT	0.49	1		$ 0	0.3300		$ 1
CONNECTORS	57C	V	DIRECT	0.00				1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	13.71	1	$ 14		1.0000	$ 14	
POLE LINE	1C	F	DIRECT	1.08	1		$ 1	1.0000		$ 1
CONDUIT	4C	F	DIRECT	0.78	1		$ 1	1.0000		$ 1
TOTALS									$ 56	$ 407
										$ 464

feed3iy

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

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FO_MUX – WORKSHEET 3
Sheet 3 of 3

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

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 3 – RE: SERVICE LEVEL: NARBAND

Bellcore
LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 27–Jan–97
TIME : 09:09

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI tpistart	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES fo3sixaset	1996 UNIT LOOP INVESTMENT BY ACCOUNT: DIRECT RESOURCES fo3dixaset	ANNUAL COST FACTOR acfstart	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES	1996 UNIT ANNUAL COSTS BY ACCOUNT: DIRECT RESOURCES	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES fo3scxaset	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: DIRECT RESOURCES fo3dcxaset
[PREVIOUS SHEET SUMMARY		[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]
LAND	20C	1.0000	$ 2		0.2232	$ 0.39		$ 0.03	
BUILDING	10C	1.0000	$ 41		0.2847	$ 11.64		$ 0.97	
BLDG ENTRANCE CABLE	12C	1.0000			0.3832				
INTRABLDG CABLE	52C	1.0000			0.3832				
AERIAL CABLE (COPPER)	22C	1.0000			0.3943				
BURIED CABLE (COPPER)	45C	1.0000			0.3377				
UNDERGROUND (CU) CA.	5C	1.0000			0.3573				
CO EQPT – LOW CAP TERM	257C	1.0000		$ 91	0.3791		$ 34.50		$ 2.88
CO EQPT – LOW CAP CHAN	257C	1.0000		$ 247	0.3791		$ 93.58		$ 7.80
CO EQPT – HI CAP TERM	857C	1.0000		$ 22	0.3791		$ 8.52		$ 0.71
CO EQPT – HI CAP CHAN	857C	1.0000		$ 38	0.3791		$ 14.45		$ 1.20
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3368				
AERIAL CABLE (FIBER)	822C	1.0000		$ 6	0.2893		$ 1.59		$ 0.13
BURIED CABLE (FIBER)	845C	1.0000			0.2634				
UNDERGROUND (FO) CA.	85C	1.0000		$ 1	0.2599		$ 0.39		$ 0.03
CONNECTORS	57C	1.0000			0.3791				
MISC. COM EQP & PWR	57C	1.0000	$ 14		0.3791	$ 5.20		$ 0.43	
POLE LINE	1C	1.0000		$ 1	0.3717		$ 0.40		$ 0.03
CONDUIT	4C	1.0000		$ 1	0.2431		$ 0.19		$ 0.02
			======	======		======	======	======	======
TOTALS			$ 56	$ 407		$ 17.23	$ 153.62	$ 1.44	$ 12.80
				======			======		======
				$ 464			$ 170.85		$ 14.24
				feed3sy			feed3ann		feed3mrc

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

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FO_MUX – REPORT 14.3
Sheet 1 of 1

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

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

FOR PRIMARY FEEDER PLANT
FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 3 – RESIDI SERVICE LEVEL: NARBAND

Bellcore (R)
LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 27–Jan–97
TIME : 09:10

data–14a3 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

									(SEE NOTE)
			BAND	0					TOTAL
		PLANT	MIX	1.0000					AVG WEIGHTED
		ACCT	AVG.						INVESTMENT
	PLANT ITEM	CODE	LGTH	28127					
		SEG.	LGTH.	23001					23001
	SHARED RESOURCES								
LAND		20C		$ 0.03					$ 0.03
BUILDING		10C		$ 0.97					$ 0.97
BLDG ENTRANCE CABLE		12C							$ 0.00
INTRABLDG CABLE		52C							$ 0.00
AERIAL CABLE (COPPER)		22C							$ 0.00
BURIED CABLE (COPPER)		45C							$ 0.00
UNDERGROUND (CU) CA.		5C							$ 0.00
CO EQPT – LOW CAP TERM		257C							$ 0.00
CO EQPT – LOW CAP CHAN		257C							$ 0.00
CO EQPT – HI CAP TERM		857C							$ 0.00
CO EQPT – HI CAP CHAN		857C							$ 0.00
CO EQPT – ANALOG SW		77C							$ 0.00
CO EQPT – DIGITAL SW		377C							$ 0.00
AERIAL CABLE (FIBER)		822C							$ 0.00
BURIED CABLE (FIBER)		845C							$ 0.00
UNDERGROUND (FO) CA.		85C							$ 0.00
CONNECTORS		57C							$ 0.00
MISC. COM EQP & PWR		57C		$ 0.43					$ 0.43
POLE LINE		1C							$ 0.00
CONDUIT		4C							$ 0.00
DIRECT RESOURCES									
LAND		20C							$ 0.00
BUILDING		10C							$ 0.00
BLDG ENTRANCE CABLE		12C							$ 0.00
INTRABLDG CABLE		52C							$ 0.00
AERIAL CABLE (COPPER)		22C							$ 0.00
BURIED CABLE (COPPER)		45C							$ 0.00
UNDERGROUND (CU) CA.		5C							$ 0.00
CO EQPT – LOW CAP TERM		257C		$ 2.88					$ 2.88
CO EQPT – LOW CAP CHAN		257C		$ 7.80					$ 7.80
CO EQPT – HI CAP TERM		857C		$ 0.71					$ 0.71
CO EQPT – HI CAP CHAN		857C		$ 1.20					$ 1.20
CO EQPT – ANALOG SW		77C							$ 0.00
CO EQPT – DIGITAL SW		377C							$ 0.00
AERIAL CABLE (FIBER)		822C		$ 0.13					$ 0.13
BURIED CABLE (FIBER)		845C							$ 0.00
UNDERGROUND (FO) CA.		85C		$ 0.03					$ 0.03
CONNECTORS		57C							$ 0.00
MISC. COM EQP & PWR		57C							$ 0.00
POLE LINE		1C		$ 0.03					$ 0.03
CONDUIT		4C		$ 0.02					$ 0.02
SPAN SUMMARY				14.24	0.00	0.00	0.00	0.00	0.00	$ 14.24
AVG. WTD. SPAN SUMMARY				14.24	0.00	0.00	0.00	0.00	0.00	

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

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C:\123R24\LCATR075\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST_METH
SHEET 1 of 2

COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENT

COMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR: 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:04

PLANT ITEM	LCAT CODE	PLANT CODE	WHEN BANDWIDTH DELIVERY IS ..... NARBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	WIDEBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	BROADBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT
LAND	LAND	20C	F	SHARED	F	SHARED	F	SHARED
BUILDING	BLDG	10C	F	SHARED	F	SHARED	F	SHARED
BLDG ENTRANCE CABLE	BEC	12C	V	DIRECT	V	DIRECT	V	DIRECT
INTRABLDG CABLE	IBC	52C	V	DIRECT	V	DIRECT	V	DIRECT
AERIAL CABLE (COPPER) ❶	ACU	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ❶	BCU	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ❶	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

❶ THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPLEXED) FEEDER & DISTRIBUTION

BY DEFINITION : ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
ITEMS LABELD F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST_METH
Sheet 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 -
		The system matrix for DISTRIBUTION cost methodolgy for -
SERVICES	(none)	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 Volitility 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 Investemnt. SHARED - for Multi-Circuit or Non-Specific Investment.

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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LOOP COST ANALYSIS TOOL

Bellcore (3)

TABLE - COST_METH
SHEET 2 of 2

COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR: 1995
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:04

PLANT ITEM	PLANT CODE	WHEN BANDWIDTH DELIVERY IS ..... NARBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	WIDEBAND CATEGORY ..... SENS. INDEX	RESOURCE ASSIGNMENT	BROADBAND CATEGORY ..... 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) ❶	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ❶	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ❶	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

❶ THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS, ONLY

BY DEFINITION : ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
ITEMS LABELD F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN

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

Field / Group Title	Valid Inputs	This field or grouping defines -
		The system matrix for FEEDER cost methodolgy for -
SERVICES	(none)	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 Volitility 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 Investemnt. SHARED - for Multi-Circuit or Non-Specific Investment.

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - STUDY SETUP
LCAT Rel. : 1.0.4
Issue Date : 3/31/95

GENERAL STUDY REQUIREMENTS

TODAY IS : 27-Jan-97
LAST UPDATE: 09-Dec-96 01:05 PM

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

COMMENTS:

SERVICE CLASS: BAND 3 - RESIDENCE LINE

STUDY BASIS: x 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 (VH) 100 (HI) 0 (MED) 0 (LO)

TEST CASE:

DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:

Type Percent Mix :

100 FIBER IN THE LOOP

0 COPPER DIG LOOP CXR

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INPUT – STUDY SETUP
Sheet 1 of 2

HELP SCREEN

Bellcore (R)
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>, <Del>, <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA.
STUDY BASIS	Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.
FACILITY TYPE	Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.
CELL DENSITY	Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

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***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****
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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - STUDY SETUP
SHEET 2 / 2

GENERAL STUDY REQUIREMENTS
STUDY QUESTIONS
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel. 1.0.4
ISSUED: 3/31/95
STUDY YEAR: 1996
TEST CASE: 1
LAST UPDATE : 09-Dec-95
TIME : 01:05 PM

	SELECTED QUESTIONS	VALID RESPONSE SET		
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ?	N or A	NEW	
	2. Is this Study for a SWITCHED or PRIVATE LINE Service ?	S or P	SWITCHED	
	3. Is this Study for Narrow, Wide, or Broadband Services	N, W or B	NARBAND	
	4. Is this Study for 2 Wire or 4 Wire Transmission ?	2 or 4	2	
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches?	0 → 100	100	
	6. What Percent of Loop Carrier Installations are INTEGRATED DLC's?	0 → 100	0	
	7. What Percent of Loop Carrier Cross-connects are Electronic DCS's?	0 → 100		
	8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?	e.g., 12000	18000	Feet
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ?	F or D	FLAT RATE	
	9a. If Distance Sensitive, what band increment do you want ?	1,2,3,4		
	10. How many Cost Bands in this study ?	0 → 5	0	
	11. Should this Study result in Investment, Cost, or All values ?	I,C or A	COST	
	12. Is this study for Total Incremental or Marginal Costs ?	T or M	TOT INCR	
	13. How many circuits (loops) in this Study ?	0 → 999		
	14. The study classification is .....(e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.		RATES PLAN	

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HELP SCREEN

Bellcore

INPUT – STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.

2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.

3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.

4. Specify as **2** for 2–wire or **4** for 4–wire, the circuit transmission paths used by the service/s/ being studied. .

5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.

6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,
Using 6. for Switched Services or **Using 7.** for Special (Private Line) Services.

8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered

9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study

9A. Enter **1, 2, 3,** or **4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively. band increments in a Distance Sensitive Study

10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non–Banded) Input or Individual Circuit Flat Rate Cost Studies.

11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.

12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.

13. Enter the quantity of loop circuits that will be the demand basis of this cost study .
Nominally, entering 1 provides a "UNIT" cost and any other value, a "TOTAL" cost.

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C:\123R24\LCATR075\DESIGN **LOOP COST ANALYSIS TOOL** Bellcore

INPUT - LOOP_DESIGN
Sheet 1 / 1

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

CIRCUIT DESIGN REQUIREMENTS
CHARACTERISTICS
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 3 - RESIDENCE LINE

LCAT Rel :1.0.4
Issued :07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:07

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:

FOR FIBER DLC DESIGNS:

	Note	
Weighting of Design #1		0.0000
Weighting of Design #2		0.0000
Weighting of Design #3		1.0000
Weighting of Design #4	NA	0.0000
Weighting of Design #5	NA	0.0000
Weighting of Design #6	NA	0.0000
		1.0000 ChkSum

FOR COPPER DLC DESIGNS:

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

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

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C:\123R24\LCATR075\DESIGN
INPUT – LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN

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

DIGITAL LOOP CARRIER DESIGNS

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

COLLOCATIONS

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

FIBER HUBS & FEEDER EXTENSIONS

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

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

SERVICE SPECIFIC

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

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - SPAN_INV
SHEET 1A / 4

LOOP FACILITY INPUT
FIBER CABLE DATA -- BY CABLE SHEATH DETAIL
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 13:09

FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size

Cable Sheath Sizes		CAPACITY INDEX	AERIAL	BURIED	UNDERGROUND
4	Fiber Cable	2 pr	$	$	$
6	Fiber Cable	3 pr	$	$	$
12	Fiber Cable	6 pr	$	$	$
18	Fiber Cable	9 pr	$	$	$
24	Fiber Cable	12 pr	$	$	$
36	Fiber Cable	18 pr	$	$	$
48	Fiber Cable	24 pr	$	$	$
60	Fiber Cable	30 pr	$	$	$
72	Fiber Cable	36 pr	$	$	$
84	Fiber Cable	42 pr	$	$	$
96	Fiber Cable	48 pr	$	$	$
144	Fiber Cable	72 pr	$	$	$
192	Fiber Cable	96 pr	$	$	$
216	Fiber Cable	108 pr	$	$	$

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TABLE - SPAN_INV
SHEET 1 / 4

Bellcore

HELP SCREEN

LCAT Rel : 1.0.4
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***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES*****

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - SPAN_INV
SHEET 2 / 4

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

LOOP FACILITY INPUT
COPPER CABLE DATA
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 13:09

COPPER CABLE CHARACTERISTICS AND INVESTMENTS

Cable Gauge Mix :

The Proportion of Copper Cable that is ....

GUAGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	0.1500	0.1500
24 GA.	0.8500	0.8500
22 GA.	0.0000	0.0000

Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :

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

If not, Update

Cable Type Mix, By Gauge :

The Proportion of Copper Cable that is ....

GUAGE		FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	0.8100	0.5800
	BURIED	0.0400	0.4200
	UNDGRND	0.1500	0.0000
24 GA.	AERIAL	0.8100	0.5800
	BURIED	0.0400	0.4200
	UNDGRND	0.1500	0.0000
22 GA.	AERIAL	0.0000	0.0000
	BURIED	0.0000	0.0000
	UNDGRND	0.0000	0.0000

Average Unit Investment for Copper Cable Installed as ....

GUAGE		FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	$ 0.0113	$ 0.0418
	BURIED	$ 0.0189	$ 0.0688
	UNDGRND	$ 0.0120	$ 0.0000
24 GA.	AERIAL	$ 0.0113	$ 0.0418
	BURIED	$ 0.0189	$ 0.0688
	UNDGRND	$ 0.0120	$ 0.0000
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 averavalues, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.

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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - SPAN_INV
SHEET 2A / 4

LOOP FACILITY INPUT
COPPER CABLE DATA - BY CABLE SHEATH DETAIL
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 13:09

COPPER CABLE INVESTMENT REFERENCE TABLE

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

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

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TABLE - SPAN_INV
SHEET 2 / 4

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HELP SCREEN

LCAT Rel : 1.0.4
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***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\123R24\LCATR075\FACILITY.WK1 **LOOP COST ANALYSIS TOOL** Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 09-Dec-96
TIME: 13:09

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

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper..dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.580000	$ 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
				Check =	1.00

--- 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

--- TABLE 6 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
	[H=F_{TYPE} / sum(F_{TYPE})]
	$ 0.580000
	$ 0.420000
Check =	1.000000

FOOTNOTES

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C:\123R24\LCATR075\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 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issue Date: 07/31/95
STUDY YR : 1996
TEST CASE : 1996
DATE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:09

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

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pfi..fd)	CABLE GAUGE MIX (copper..fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.810000	$ 0.011300	0.1500	0.121500	$ 0.001695
BURIED @ 26 GA.	0.040000	$ 0.018900	0.1500	0.006000	$ 0.002835
UNDGRND @ 26 GA.	0.150000	$ 0.012000	0.1500	0.022500	$ 0.001800
AERIAL @ 24 GA.	0.810000	$ 0.011300	0.8500	0.688500	$ 0.009605
BURIED @ 24 GA.	0.040000	$ 0.018900	0.8500	0.034000	$ 0.016065
UNDGRND @ 24 GA.	0.150000	$ 0.012000	0.8500	0.127500	$ 0.010200
AERIAL @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
BURIED @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
UNDGRND @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
				Check =	1.00

--- TABLE 2 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR :		[F=sum(D$_{TYPE}$)]
AERIAL		0.810000
BURIED		0.040000
UNDERGRND		0.150000
	Check =	1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
	[G=sum(E$_{TYPE}$)]
	$ 0.011300
	$ 0.018900
	$ 0.012000

--- TABLE 6 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
	[H=F$_{TYPE}$ / sum(F$_{TYPE}$)]
	$ 0.952941
	$ 0.047059
	-
Check =	1.000000

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - SPAN_INV
SHEET 3 / 4

LOOP FACILITY INPUT
COPPER PAIRGAIN CABLE DATA
FOR

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:09

COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS

FOR DLC SYSTEMS ON COPPER LOOPS

Cable Gauge : Please Enter the NUMBER for 22 GA., 24 GA.,or 26 GA. : 24

Pair Gain Factor :

(When Investment Utilities or Band Width Mix are NOT Used)

The Average Number Of Voice Grade Circuit Equivalents Per System : 96

The Average Number Of Transmission Pairs Plus Protection Per System : 10

The Average Number Of Support (Power, Alarm, Etc) Pairs Per System : 2

Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] : 0.1250 ●

NOTE:

● The value represents the extent to which copper pairs are gained. For example, A 96-Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or (10 + 2) / 96 = 0.125. When applied to segment length it becomes the Effective Length per Pair.

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TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Bellcore (R)
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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 customariiy supported by a power pair and an alarm pair (2 pair)
pgfactor	Where : pgfactor = (# of xmmsnpr + # of suptpr) / vgcheqv

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

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SPAN INV - WORKSHEET
Sheet 3 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET B
FOR
FACILITY TYPE: COPPER CABLE for DLC
DESIGN TYPE : FEEDER SEGMENT
SERVICE CLASS : BAND 3 - RESIDENCE LINE

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

LCAT Rel : 1.0.2
Issue Date: 07/31/95
STUDY YR : 1996
TEST CASE : 1996
DATE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:09

MELDED CABLE INVESTMENT PER PAIR FOOT

INVESTMENT DEVELOPMENT FOR:

LINE REPEATER EQUIPMENT

DESCRIPTION	REPEATER SPACING [A]	UNIT REPEATER INVESTMENT [B]	REPEATER INVEST. PER FOOT [C=B/A]
LINE REPEATER AT 26 GA.	3500	$ 0	$ 0.000000
LINE REPEATER AT 24 GA.	4500	$ 0	$ 0.000000
LINE REPEATER AT 22 GA.	5500	$ 0	$ 0.000000

TABLE 4 DEVELOPMENT FOR:

COPPER CABLE UNIT INVESTMENT

FOR DLC Gauge : 24.00

DESCRIPTION	ADJUSTED PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PFIcgg)① [D]	PAIR / FOOT INVESTMENT REPEATER BY GAUGE (RPTR ggG) [E=C]	WORKING CHANNEL INVESTMENT / FOOT (ADLCPFIcgg) [F=D+E]	- TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPFIc)
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	
BURIED @ 24 GA.	$ 0.037800	$ 0.000000	$ 0.037800	
UNDGRND @ 24 GA.	$ 0.024000	$ 0.000000	$ 0.024000	
AERIAL @ 22 GA.	$ 0.000000	$ 0.000000	$ 0.000000	
BURIED @ 22 GA.	$ 0.000000	$ 0.000000	$ 0.000000	
UNDGRND @ 22 GA.	$ 0.000000	$ 0.000000	$ 0.000000	

NOTES :
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.

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LOOP COST ANALYSIS TOOL

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TABLE - SPAN_INV
SHEET 4 / 4

LOOP FACILITY INPUT
SERVICE ACCESS SEGMENT
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 13:09

SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS

AVERAGE UNIT MIX :

AVERAGE UNIT INVESTMENT :

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

Proportion of Loops that use.....

Aerial	0.00
Buried	0.00

Per Unit Installation.....

Aerial Termination	0
Buried Termination	0

The Average Drop Wire & Building Entrance Cable Installation -

Proportion of Loops that use..

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

Per Unit Installation.....

Adjust Cable Pair Foot Invest. for DW Investment ? (Y/N)	N
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 Instln for a Intrabuilding Network Cable Pair: $ 0.00

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SPAN_INV
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HELP SCREEN

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issued : 07/31/95

terma termb	These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network interface Block summary per circuit pair installation investment.
adropinv bdropinv bec coaxinv	These facility investments may also include Drop Wire Block and/or Network Interface summary per circuit pair installation inveatment.
ibc	This facility investment should include ALL the internal cross–connects and terminations for this type of installation as a circuit pair istallation investment.

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LOOP COST ANALYSIS TOOL

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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 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:09

FIBER CABLE INVESTMENT AND CHARACTERISTICS

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

INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :

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

If not, Update Unit Averages as Follows :

PRIMARY SEGMENT

Average Unit Investment for FIBER cable, Installed as			
	AERIAL	$ 0.1930	per fiber pair Foot
	BURIED	$ 0.0000	per fiber pair Foot
	UNDGRD	$ 0.2229	per fiber pair Foot

(Fiber Hub to Remote Terminal)

FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT

Average Unit Investment for FIBER cable, Installed as				
	AERIAL	$ 0.1930	$ 0.0000	per fiber pair Foot
	BURIED	$ 0.0000	$ 0.0000	per fiber pair Foot
	UNDGRD	$ 0.2229	$ 0.0000	per fiber pair Foot

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

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LOOP COST ANALYSIS TOOL

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TABLE - FACTORS
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES
FOR
ANNUALIZATION FACTORS
INVESTMENT YEAR : 1996
STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 20-Jan-97
TIME : 12:52

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

SERVICE CLASS:BAND 3 - RESIDENCE LINE

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - EQUIP_INV
Sheet 1 of 1

DATA REFERENCE TABLE
EQUIPMENT & OTHER INVESTMENTS
FOR

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

INVESTMENT YEAR: 1996
SERVICE LEVEL: NARBAND
SERVICE CLASS: BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Jan-97
15:08

EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)

	CENTRAL OFFICE			REMOTE LOCATION	
	LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL
AIR DRYERS INVESTMENT:					
For an AERIAL Installed Cable Pair			$ 0.00		
For a BURIED Installed Cable Pair			$ 0.00		
For an UNDERGROUND Installed Cable Pair			$ 0.00		
CENTRAL OFFICE TERMINATION INVESTMENT :					
For each cable pair associated with twisted pair copper cable			$ 0.00		
For each per cable pair associated with digital loop carrier technology			$ 0.00		
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :					
For each line repeater for one copper digroup (not svc lev)	$ 0.00				
For an Office Repeater Bay for a T1 Line	$ 0.00				
For a Universal DLC Equipment Arrangement	$ 0.00	$ 87.51	$ 12.14	$ 85.28	$ 51.57
For an Integrated DLC Equipment Arrangement	$ 0.00	$ 0.00	$ 0.00	$ 85.28	$ 51.57
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :					
1. For a Hub with nonFiber Extensions or nonHub Arrangement		$ 19.62	$ 2.35	$ 18.49	$ 2.35
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement		$ 0.00	$ 0.00	$ 0.00	$ 0.00
3. For a Fiber HUB and Fiber Remote Terminal Arrangement				$ 0.00	$ 0.00
4. For Fiber Ring Hub Arrangements (Extensions)				$ 0.00	$ 0.00
CEV HOUSING per CIRCUIT by SERVICE LEVEL :					
For CEV's used as fiber hubs for FO Muliplexer equipment					$ 0.00
For CEV's used as remote terminals for CDLC equipment					$ 0.00

[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1,or DS3 service equiv.]

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TABLE - EQUIP_INV

HELP INFORMATION

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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

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LOOP COST ANALYSIS TOOL

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TABLE – ADDNL_INV
Sheet 1 of 2

INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORS
FOR

LCAT Rel : 1.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09–Jan–97
TIME : 09:18

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 3 – RESIDENCE LIN

PLANT UTILIZATION FACTORS:

Land	1.0000
Building	1.0000
ALL Copper Cables, or	
Copper Feeder Cable	0.6000
Copper Distribution Cable	0.3500
Copper Entrance Cable	1.0000
Copper Building Cable	0.3500
Copper Building Terminal	0.3500
ALL Fiber Cables, or	
Fiber Feeder Cable	0.3300
Fiber Distribution Cable	
Fiber Entrance Cable	
Fiber Building Cable	
Fiber Building Terminal	
Poles	1.0000
Conduit	1.0000

ALL Non–Traffic Sensitive Equipment	1.0000
ALL Digital Loop Carrier Equip., or	0.7000
CO DLC Channel Unit	0.7000
REM DLC Channel Unit	0.7000
CO DLC Multiplex System	0.7000
REM DLC Multiplex System	0.7000
CO Digital Signal Crossconnect Bay	0.7000
REM Digital Signal Crossconnect Bay	0.7000
ALL Fiber Optic Multiplex Equip., or	1.0000
CO Fiber Optic Channel Unit	1.0000
REM Fiber Optic Channel Unit	1.0000
CO Fiber Optic Multiplex System	1.0000
REM Fiber Optic Multiplex System	1.0000
CO Lightguide Terminating Equipment	1.0000
REM Lightguide Terminating Equipment	1.0000
Remote Housing: CEV	1.0000
PC Hut	1.0000
Comm Svc. Cab.	1.0000

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TABLE – ADDNL_INV
Sheet 1 of 2

HELP SCREEN

Bellcore (R)
LCAT Rel : 1.0.4
Issued : 3/31/95

NOTE :

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

❷ 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.

❸ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE – ADDNL_INV
Sheet 2 of 2

INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORS
FOR

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 – RESIDENCE LINE

LCAT Rel : T.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09–Jan–97
TIME : 09:18

	SEGMENT ..... DISTRIBUTION ❷	FEEDER use *DEFAULT*
POLE LOADINGS:		
Copper Cable Pole Investment Factor	0.2530	0.2530
Copper Cable Pole Unit Investment		
Fiber Cable Pole Investment Factor	0.1965	0.1965
Fiber Cable Pole Unit Investment		
CONDUIT LOADINGS:		
Copper Cable Conduit Investment Factor	0.5165	0.5165
Copper Cable Conduit Unit Investment		
Fiber Cable Conduit Investment Factor	0.5232	0.5232
Fiber Cable Conduit Unit Investment		

DROP WIRE (DW) INVESTMENT ADJUSTMENT:

The Cable PFI is being Adjusted for DW ?	NO
Aerial Cable	
Buried Cable	
Underground Cable	

	use *DEFAULT* for: CENT. OFC. ❶	REMOTE SITE ❷
LAND LOADING FACTORS:		
Other or *ALL* ❶	0.0056	0.0056
Digital Loop Carrier	0.0056	0.0056
Fiber Optic Mux	0.0056	0.0056
BUILDING LOADING FACTORS:		
Other or *ALL* ❶	0.1316	0.1316
Digital Loop Carrier	0.1316	0.1316
Fiber Optic Mux	0.1316	0.1316
MISC. EQUIPMENT & POWER LOADING FACTORS:		
Other or *ALL* ❶	0.1127	0.1127
Digital Loop Carrier	0.1127	0.1127
Fiber Optic Mux	0.1127	0.1127

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TABLE – ADDNL_INV
Sheet 2 of 2

HELP SCREEN

Bellcore (R)
LCAT Rel : 1.0.4
Issued : 3/31/95

Copper Cable Pole Investment Factor	cplff	_dst	_fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cplfi	_dst	_fdr	Per unit length of aerial copper cable effective pair feet placed.
Fiber Cable Pole Investment Factor	fplff	_dst	_fdr	Based on aerial fiber cable investment relationship to pole
Fiber Cable Pole Unit Investment	fplfi	_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

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

❷ 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.

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT_CHAR.
Sheet 1 / 5

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

LOOP FACILITY INPUT
LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-95
TIME : 13:17

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

PRIMARY	STAR
PRIMARY	NA
DISTRIBUTION	STAR

SPAN LENGTHS

❶	Average Distance From the Central Office to the Service Access Point	TOTAL LOOP	28127.0
❷	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION	4826.0
❸	Average Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY	300.0
❹	Average Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY	23001.0
❺	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION	

LOOP LENGTH AT EACH COST BAND

BAND 1	
BAND 2	
BAND 3	
BAND 4	
BAND 5	
LAST	28127.0

DISTRIBUTION OF COST BANDS IN THE NETWORK

BAND 1		
BAND 2		
BAND 3		
BAND 4		
BAND 5		
LAST	1.0000	1.0000 Hint

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LOOP COST ANALYSIS TOOL

Bellcore (R)

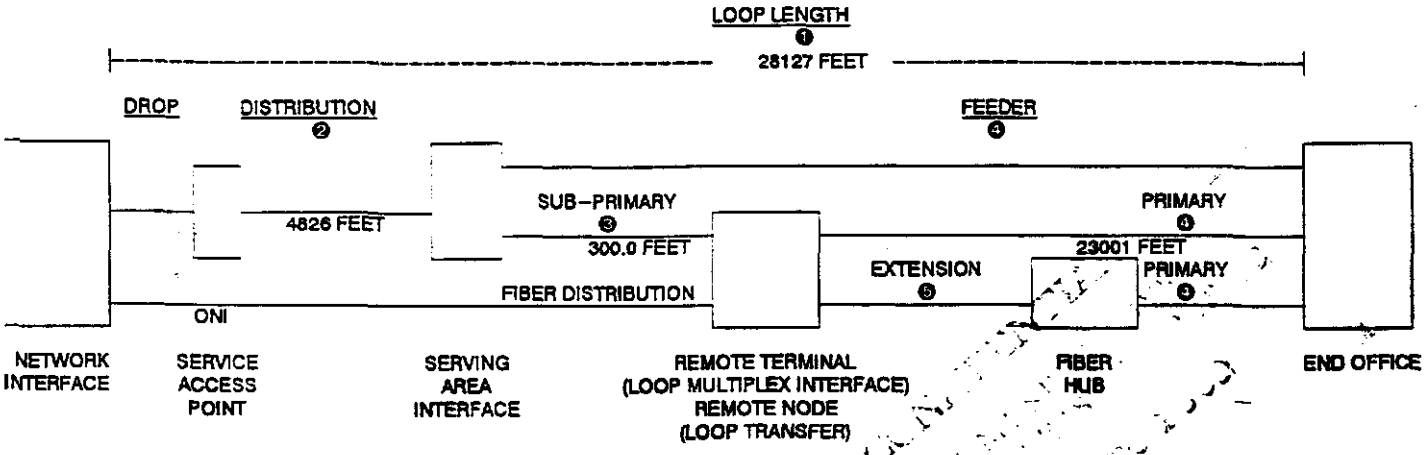
INPUT – PLANT_CHAR.
Sheet 1 / 1

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

LOOP FACILITY INPUT
LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 – RESIDENCE LINE

LCAT Rel :1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:17

FLAT RATE BASIS DATA WITHOUT COST BANDS
FOR A NETWORK CIRCUIT CASE STUDY



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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT_CHAR.
Sheet 1 of 2

LOOP FACILITY INPUT
HELP SCREEN

LCAT Rel :1.0.4
Issued : 07/31/95

AVERAGE NETWORK STUDY -

This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.

INDIVIDUAL CIRCUIT STUDY -

This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.

DATA SAMPLE NETWORK STUDY -

This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.

BANDWIDTH AVERAGING -

This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations.

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

PRESS "ENTER" TO RETURN TO THE MAIN MENU

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT_CHAR.
Sheet 2 of 2

LCAT Rel :1.0.4
Issued : 07/31/95

HELP SCREEN

COST DETAILS

When the Loop Study is specified as DISTANCE SENSITIVE, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimeters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User.
When the Loop Study is specified as FLAT RATE, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.

LOOP TOPOLOGY

When the Loop Topology (circuit layout format) for the Feeder Layer is specified as STAR, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as RING, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT_CHAR.
Sheet 2a / 5

LOOP FACILITY INPUT
FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER
FOR

LCAT Rel : 1.0.4
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 3 - RESIDENCE LINE	LAST UPDATE :	09-Dec-96
				TIME :	13:17

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A

		CAPACITY [C]	idx	AERIAL FIBER CUMULATIVE FEEDER LENGTH [D_A]	AERIAL FIBER EFFECTIVE LENGTH BY PAIR FOOT - [E_A]	BURIED FIBER CUMULATIVE FEEDER LENGTH [D_B]	BURIED FIBER EFFECTIVE LENGTH BY PAIR FOOT [E_B]	UNDERGROUND FIBER CUMULATIVE FEEDER LENGTH [D_U]	UNDERGROUND FIBER EFFECTIVE LENGTH BY PAIR FOOT [E=D/C]
4	FIBER CABLE	2 pr			0.0		0.0		0.0
6	FIBER CABLE	3 pr			0.0		0.0		0.0
12	FIBER CABLE	6 pr			0.0		0.0		0.0
18	FIBER CABLE	9 pr			0.0		0.0		0.0
24	FIBER CABLE	12 pr			0.0		0.0		0.0
36	FIBER CABLE	18 pr			0.0		0.0		0.0
48	FIBER CABLE	24 pr			0.0		0.0		0.0
60	FIBER CABLE	30 pr			0.0		0.0		0.0
72	FIBER CABLE	36 pr			0.0		0.0		0.0
84	FIBER CABLE	42 pr			0.0		0.0		0.0
96	FIBER CABLE	48 pr			0.0		0.0		0.0
144	FIBER CABLE	72 pr			0.0		0.0		0.0
192	FIBER CABLE	96 pr			0.0		0.0		0.0
216	FIBER CABLE	108 pr			0.0		0.0		0.0

CUMULATIVE LENGTHS OF FEEDER :

AERIAL FIBER SUBTOTAL	0
BURIED FIBER SUBTOTAL	0
UNDGRD FIBER SUBTOTAL	0
FIBER SUBTOTAL	0

EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT :

AERIAL FIBER SUBTOTAL	0.0
BURIED FIBER SUBTOTAL	0.0
UNDGRD FIBER SUBTOTAL	0.0
FIBER SUBTOTAL	0.0

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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
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 07/31/95

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-95
TIME : 13:17

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

SERVICE CLASS: BAND 3 - RESIDENCE LINE

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A / [F]WKSH C
CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INVFACILITY WKSH B

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

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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
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-95
TIME : 13:17

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A
CUMULATIVE LENGTHS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR – WORKSHEET 3B
Sheet 3b / 5

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 07/31/95

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

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-95
TIME : 13:17

SERVICE CLASS: BAND 3 – RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore

INPUT - PLANT_CHAR.
Sheet 4a / 5

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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-96
TIME : 13:17

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A
CUMULATIVE LENGTHS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR - WORKSHEET 4B
Sheet 4b / 5

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

LCAT Rel : 1.0.4
Issued : 07/31/96

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 09-Dec-96
TIME: 13:17

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

SERVICE CLASS: BAND 3 - RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET 8

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT – PLANT_CHAR.
Sheet 5 / 5

LOOP FACILITY INPUT
DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX
FOR

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 – RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:17

FIBER BANDWIDTH
TRANSMISSION FLOW IS : [X] UNIDIRECTIONAL
[ ] BIDIRECTIONAL

LEVEL OF SERVICE : NARBAND

BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL MULTIPLE [SLM]	PROTECTION n : 1 [E]	WEIGHTED EQUIVALENT CHANNELS PER FO PAIR [F]
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0			
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0			
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0			
FEEDER – PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04
FEEDER – EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04

FOOTNOTES
1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.
2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1->7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]}

0

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PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1

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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:17

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig tbl)

	SELECT	MODE	HIERARCY	BNDWDTH	DS1MULT	DS3MULT	VGE	MEDIA
0								
1			DS1	1.5 Mbps	1	0.04	24	BIDIR,2WCU CA
2		MODE3	DS1	1.5 Mbps	1	0.04	24	UNIDIR,4WCU CA
3			VT1.5	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	DS1C	3.2 Mbps	NA		48	BIDIR,2WCU CA
7		MODE2	DS1C	3.2 Mbps	2	0.07	48	BIDIR,2WCU CA
8			VT3	3.2 Mbps	2	0.07	36	UNDIR,FIBER
9				4 Mbps	2	0	60	
10			DS2	6.3 Mbps	4	0.14	72	BIDIR,2WCU CA
11		MODE4	DS2	6.3 Mbps	NA	0	72	BIDIR,2WCU CA
12			VT6	6.3 Mbps	4	0.14	84	UNDIR,FIBER
13			E2	8 Mbps	4	0.25	120	BIDIR,2WCU CA
14			E3	34 Mbps	16	1	480	
15	X		DS3	45 Mbps	28	1	672	BIDIR,2WCU CA
16		STS1	OC1	50 Mbps	28	1	672	UNDIR,FIBER
17	X			90 Mbps		2	1344	UNDIR,FIBER
18				90 Mbps		2	1344	BIDIR,MW RADIO
19			DS4	135 Mbps		3	2016	UNDIR,FIBER
20				135 Mbps		3	2016	BIDIR,MW RADIO
21			DS4NA	139 Mbps		3	2016	UNDIR,FIBER
22			E4	140 Mbps		3	1920	UNDIR,FIBER
23			T4M	139 Mbps		6	4032	BIDIR,COAX
24			PT140	139 Mbps		6	4032	BIDIR,COAX
25	X		OC3	155 Mbps		3	2016	UNDIR,FIBER
26	X			180 Mbps		4	2688	UNDIR,FIBER
27				417 Mbps		9	6048	UNDIR,FIBER
28			OC9	466 Mbps		9	6048	UNDIR,FIBER
29			OC12	560 Mbps		12	7680	UNDIR,FIBER
30				565 Mbps		12	8064	UNDIR,FIBER
31				1.2 Gbps		24	16128	UNDIR,FIBER
32				1.7 Gbps		36	24192	UNDIR,FIBER
33			OC24	1.8 Gbps		24	24192	UNDIR,FIBER
34				2.5 Gbps		24	34560	UNDIR,FIBER
35								
36								
	0	1	2	3	4	5	6	7
	OFFSET							

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PLANT CHAR. - WORKSHEET F
Sheet 1 of 1

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

LOOP LENGTH DEVELOPMENT WORKSHEET
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 3 - RESIDENCE
WORKSHEET F

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR. : 1996
TEST CASE : 1
LAST UPDATE : 09-Dec-96
TIME : 13:17

[A] DISTANCE INCREMENTS : 0 / 4 MILE BETWEEN BANDS
[B] NUMBER OF BANDS : 0 TO BE CARRIED INTO THE STUDY

[R] ROUTE TO AIR RATIO : 1.539947 : rtaratio
[K] UNIT MILE / FEET CONSTANT : 1320

BAND NUMBER [C]	TOTAL WORKING FEET [D=input]	TOTAL WORKING FEET [E=(B*D)]	TOTAL AIR FEET [F=A*C*K]	LOOP LENGTH @ MIDPOINT [G (see note)]	WORKING FEET @ MIDPOINT [H=G*R]
1		0		0	0
2		0		0	0
3		0		0	0
4		0		0	0
5		0		0	0

ERROR MESSAG 0

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

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

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 09-Dec-96
TIME: 13:17

WORKSHEET SA

Sub Feeder Allocation Table

OFFSET

0	1	2	3	4	5	6	7	8	9	10
Sub Feeder Allocation Table					sgalcun alloc					
cur lplgth 28127						COLOCATED R1 AND CP, where				
dclDepl = 18000		|NO COLOCAT|dstopo = BUS				|COLOCATED |dstopo = BUS				
|B|distspa 4826		|dstopo = STAF|dstopo = BUS				|dstopo = STAF|dstopo = BUS				
nom_rangcur-dis	subfeed	prifeeder	subfeed	prifeeder		subfeed	prifeeder	subfeed	prifeeder	dif
|C|	|D=C-I	|E|	|F=D-E	|G|	|H=D-G|	|I|	|J=C-I	|K|	|L=C-K|	|M=A-C|
0	0	0	0	0	0	0	0	0	0	28127
500	0	0	0	0	0	500	0	500	0	27627
1000	0	0	0	0	0	1000	0	1000	0	27127
2000	0	0	0	0	0	2000	0	2000	0	26127
3000	0	0	0	0	0	3000	0	3000	0	25127
4000	0	0	0	0	0	4000	0	4000	0	24127
5000	174	174	0	174	0	5000	0	5000	0	23127
6000	1174	1174	0	1174	0	6000	0	6000	0	22127
7000	2174	2174	0	2174	0	7000	0	7000	0	21127
8000	3174	3174	0	3174	0	8000	0	8000	0	20127
9000	4174	4174	0	4174	0	9000	0	9000	0	19127
10000	5174	5174	0	5174	0	10000	0	10000	0	18127
11000	6174	6174	0	6174	0	11000	0	11000	0	17127
12000	7174	7174	0	7174	0	12000	0	12000	0	16127
13000	8174	8174	0	8174	0	13000	0	13000	0	15127
14000	9174	9174	0	9174	0	14000	0	14000	0	14127
15000	10174	10174	0	10174	0	15000	0	15000	0	13127
16000	11174	11174	0	11174	0	16000	0	16000	0	12127
17000	12174	12174	0	12174	0	17000	0	17000	0	11127
18000	13174	6587	6587	0	13174	9000	9000	0	18000	10127
19000	14174	7087	7087	0	14174	9500	9500	0	19000	9127
20000	15174	7587	7587	0	15174	10000	10000	0	20000	8127
80000	75174	13174	62000	1000	74174	13174	66826	1000	79000	-51873

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^{cst} 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.

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3 Geographic Areas

07/26/96
Revised

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
Band 1							
1	0-12,000	6,081	1,103	7,184	5,765	638	6,403
2	# Of Entries	107			255		
3	12,001-INFINITY	14,881	2,346	17,226	13,630	2,046	15,677
4	# Of Entries	53			38		
5	Ratio						
6	0-12,000	0.5744			0.7433		
7	12,001-INFINITY	0.4256			0.2567		
		1.0000			1.0000		
Band 2							
8	0-14,000	6,697	1,836	8,534	5,698	1,013	6,711
9	# Of Entries	69			90		
10	14,001-INFINITY	19,582	2,699	22,282	21,785	1,989	23,774
11	# Of Entries	70			74		
12	Ratio	0.4964			0.5488		
13	0-14,000	0.5036			0.4512		
14	14,001-INFINITY	1.0000			1.0000		
Band 3							
15	0-18,000	4,845	1,981	6,825	4,51[illegible]	1,095	5,6[illegible]
16	# Of Entries	46			[illegible]		
17	18,001-INFINITY	23,301	4,826	28,127	2[illegible],881	3,[illegible]	27,360
18	# Of Entries	56			38		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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TRANSPORT & TERMINATION USAGE COSTS (TELRIC)

MCI Depo.
Ex. No. 45
DH 11-26-97

Transport & Termination - Usage Costs

Avg. Min.. Msg		3.775	1
Common Minutes		39,070,431.50	2
Common Air Mile Minutes		348,599,900.00	3
Common Costs	$	22,946.93	4
Tandem Costs (w/ tt)	$	85,332.79	5
Switching (w/ Trunk Term)			
End Office			
Setup	$	0.001760	6
Duration	$	0.001949	7
Power & Common Equipment Factor		***1.0721***	8
Common Costs	$	22,946.93	9
Tandem Costs (w/ Trunk Term, Power & Common Equipment)	$	91,485.29	10
Switching (w/ Trunk Term, Power & Common Equipment)			
End Office			
Setup	$	0.001887	11
Duration	$	0.002090	12

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		MOU Costs	
Common Costs			
Common Transport per Minute	$	**0.000587**	13
Common Transport (Minutes/Mile)	$	**0.000066**	14
Tandem Costs			
Tandem Costs (w/ tt)	$	**0.002341**	15
End Office Costs			
End Office Per Minute (w/ tt)	$	**0.003438**	16

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Sources: Line 1. - See Tab A, Page 1.
Line 2. - See Tab A, Page 7, Line 9.
Line 3. - See Tab A, Page 7, Line 14.
Line 4, = Tab A, Page 7, Line 2 + Line 3 + Line 4.
Line 5. - See Tab A, Page 7, Line 8.
Line 6. - See Tab A, Page 2.
Line 7. - See Tab A, Page 3.
Line 8. - See Factor File (377c).
Line 9. = Line 4.
Line 10, = Line 5 * Line 8.
Line 11, = Line 6 * Line 8.
Line 12, = Line 7 * Line 8.
Line 13, = Line 9 / Line 2.
Line 14, = Line 9 / Line 3.
Line 15, = Line 10 / Line 2.
Line 16, = (((Line 1 * Line 12) + Line 11) / Line 1) + Tab B, Page 1, Line 5.

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Measurement Costs

	Cost
1 CBIS Cost Per Message	$ 0.003219
2 AMA Storage Cost Per Message	$ 0.000011
3 Total	$ 0.003230
4 Minutes Per Message	3.81
5 **Total Measurement Cost Per Minute**	**$ 0.000849**

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Sources:
L1 Page 2, Line 5
L2 Page 3, Line 19
L3 L1 + L2
L4 Tab A, Page 1
L5 L3 / L4

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Measurement Costs

		Cost
1	Total MPS Cost	$ 328,359
2	Total MPS Machine Cost	$ 74,400
3	Total MPS Cost/MPS Machine Cost	4.41
4	Cost per Message (based on machine cost)	$ 0.00073
5	**Total Cost per Message**	**$ 0.003219**

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Sources:

L1 Sum of DS1 (highlighted)
L2 Sum of DS2, DS3, DS4 (highlighted - CBT Cost)
L3 L1/L2
L4 Sum of DS2, DS3, DS4 (highlighted - Cost/AMA) / 3
L5 L3*L4

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AMA Storage Investment per Toll Call

	Description A	Sources B	Total C
1)	SCIS Investment	DS5	$ 0.007800
2)	SCIS Spare Capacity		$ -
3)	Filled Investment	Line 1 - Line 2	$ 0.007800
4)	Telco Engineering Factor	Network Engineering	11.5%
5)	Installed Investment	Line 3 * (1 + Line 4)	$ 0.008697
6)	Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7)	Total Digital Switch Investment (377c)	Line 5 * Line 6	$ 0.009324
8)	Annual Charge Factor (377c)	See Tab B. Page 4. Col J / 100	0.3165
9)	Cost (377c)	Line 7 * Line 8	$ [illegible]
10)	Land Factor	Factor File (1994)	0.0056
11)	Land Investment (20jc)	Line 7 * Line 10	$ 0.000052
12)	Annual Charge Factor (20jc)	1996 TELRIC Annual Charge %, Intrastate Ohio. 1/19/97	0.2232
13)	Cost (20jc)	Line 11 * Line 12	$ [illegible]
14)	Bldg Factor	Factor File (1994)	0.1316
15)	Bldg Investment (10jc)	Line 7 * Line 14	$ 0.001227
16)	Annual Charge Factor (10jc)	1996 TELRIC Annual Charge %, Intrastate Ohio. 1/19/97	0.2847
17)	Cost (10jc)	Line 15 * Line 16	$ [illegible]
18)	Total Investment	Line 7 + Line 11 + Line 15	$ 0.010603
19)	Total Cost	(Line 9 + Line 13 + Line 17)/312	$ 0.000011

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Annual Charge Development

Ohio - 377C TELRIC

	SVC LIFE	BOOK DEPN (A)	POST TAX INC (B)	INC TAX (C)	PROP TAX (D)	TOTAL CAPITAL COSTS (E)=(A..D)	MTCE (F)	MKTG & SALES EXPENSE (G)	DIR ADM EXP (I)	TOTAL DIRECTLY ASSIGNED EXPENSE (Incl GRT) (J)=(E..I)* 1.0499
1	12	8.45	6.06	2.48	3.23	20.21	5.29	0.51	4.14	31.65

Source:

L1 - 1997 Annual Charge Development (Acct. 2212) 1/19/97

L1 (Col. F) - 1996 Annual Charge Development, MTCE, P5, Ln. C239

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System: CIA
Cincinnati Bell Telephone
SM120 - YEAR TO DATE COSTS BY PTC
Date/Time 12/16/96 16.55.24
YEAR-TO-DATE: DECEMBER 1995 -- NOVEMBER 1996

MNGR: Don Cheek 102-330 397-5410 MPS

PTC	DESCRIPTION	9512	9601	9602	9603	9604	9605	9606	9607	9608	9609	9610	9611	
130	AUTO MSG ACCTG CNTRL CTR (AMACC)	.	.	.	.	0	.	.	.	.	.	.	0	
133	CMDS PROCESSING FOR GEN TELE/RA056	32	31	29	30	28	42	40	33	40	25	46	9	
140	MANUAL MESSAGE DATA ENTRY	582	698	654	579	609	668	630	578	700	537	618	470	
150	AUTOMATIC MESSAGE DATA ENTRY	4843	4864	4710	5078	5145	5542	5610	5814	5663	3565	3919	3129	3102
174	EIGHT HUNDRED TRANSMISSION SYSTEM	0	0	.	0	0	0	.	.	.	.	.	.	
170	MESSAGE FILE PROCESSING	48467	52134	42476	45110	64924	44604	40261	47543	39306	37274	48562	37697	41174
177	MESSAGE FILE - EMR/MPS	6406	6889	7464	7270	7394	7563	7199	7135	6260	4828	6300	5281	6122
178	OTUMS	30	42	28	29	40	32	29	41	32	31	51	26	
197	TOLL AND WATS TAPE PROCESSING	6	6	6	6	.	.	.	.	.	.	.	.	
77	MESSAGE PROC SYSTEM - GUIDES	2347	2481	2240	2381	2326	2542	2276	2490	2522	2372	2563	2134	2,197
14	PRODUCTION PTC FOR BILL EDIT/PRINT	139481	126431	116443	133714	130699	129790	142168	137442	137437	122701	134124	103795	
94	MONTHLY FRAUD ACTIVITY RPT #5140087	23	18	17	14	11	15	15	12	153	7	43	3	
7	ESMAP	3	3	2	3	2	3	2	3	3	2	3	2	
1	MPS FOR CABS	257	173	295	323	172	187	161	413	706	448	673	574	
1	VM ID REQUEST 32050410	5	11	5	5	5	5	5	3	3	3	3	2	
1	STARGATE MTHLY CALLING CARD STUDY	10	10	10	10	10	10	10	10	.	.	.	.	
1	MTHLY COUNT OF MESSAGES BY WIRE CNT	0	0	0	0	0	0	0	0	.	.	.	.	
92	OHIO 5% TAX ON INTRAST/INTERST SERV	2	6	2	7	.	.	.	.	.	.	.	.	
79	BLANKET P.O. - BUSINESS SALES	0	0	.	.	0	.	.	.	.	.	.	.	
96	BLANKET P.O. - INFO SYST	5	5	5	5	5	5	5	5	0	.	.	.	
26	CCS TRACKING - REILY TO OXFORD	42	41	37	39	46	42	42	42	49	50	43	34	
A6	MPS RELEASE TESTING	31744	28929	35152	35280	37435	25108	28789	25116	32041	27920	31503	24791	26.2%
C9	T&M MPS	37319	24875	12573	15297	21902	23773	38729	17969	5688	2692	2874	.	
21	BASE MPS	38183	46854	30053	46232	40405	48124	34304	22011	8027	6036	879	.	
56	DISC MPS	460	1638	2131	2895	1485	2080	1053	440	657	1216	538	.	
91	TECH MPS	25943	24790	20042	16204	19758	21319	26532	27796	471	618	4	.	
106	INTRALATA TOLL (ITAC)	174	139	124	126	184	164	139	140	181	149	182	122	
111	CENTRALIZED CREDIT & REFUND 3150061	9	11	9	10	10	11	10	10	11	11	13	3	
00	DIV OF REV - ALL PURPOSE STAT	132	113	110	137	141	96	25	23	8	4	4	4	
02	MINUTES OF USE STUDY ANNUAL	173	147	71	132	133	135	74	128	130	69	74	56	
10	DIVISION OF REVENUES - COMPTROLLER	173	139	123	135	44	11	10	10	11	10	12	8	
16	MECH. OF SECURITY FILES	14	14	12	12	12	14	13	14	16	15	19	13	
32	ATTC INTERST UNBILLED WATS #2040081	6	6	5	6	6	6	6	7	5	2	2	1	
21	WATS ANALYSIS	1	2	1	1	1	2	1	1	1	1	1	1	
23	WATS MESSAGE REPORT	22	22	21	22	22	22	21	22	22	24	22	21	
4	WATS MESSAGE DETAIL	20	20	17	20	19	21	20	19	17	17	17	15	
87	WATS INF SYSTEM	3	4	3	3	3	3	3	3	1	1	2	0	
70	MESSAGE INVESTIGATION SYSTEM (CTI)	12617	10484	11327	10710	9458	10534	10507	9334	11741	8975	10011	8833	9,114
61	MECH-CALL ANNOYANCE BUREAU #2040069	159	168	196	188	191	204	303	186	203	167	246	124	
	3RD NUMBER & CREDIT CARD STUDY	92	80	76	79	82	86	78	75	78	74	81	47	

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DS1

BRADFORD CRAWF
CBIS

Cost Per Message for March 1996

Job Name	CBT Cost	Msg Count	Cost/OSPS	Cost/Rec. Collect	Cost/AMA
AA38800Y	$ 94.90	2,408,704	0.00003940		
AA39000Y	$ 298.29	1,923,839		0.00015505	
AA39900Y	$ 9,605.89	117,628,444			0.00008166
AA41000Y	$ 5,172.62	112,771,871	0.00004587	0.00004587	0.00004587
AA42000Y	$ 2,486.59	20,290,334	0.00012255	0.00012255	0.00012255
AA44000Y	$ 147.05	5,099,836	0.00002883	0.00002883	0.00002883
AA45000Y	$ 620.89	51,483,526	0.00001206	0.00001206	0.00001206
AA46100Y	$ 939.31	4,600,550	0.00020417	0.00020417	0.00020417
AA50000Y	$ 4,516.43	111,103,305	0.00004065	0.00004065	0.00004065
AA52000Y	$ 38.36	4,911,516	0.00000781	0.00000781	0.00000781
AA54000Y	$ 711.56	5,158,785	0.00013793	0.00013793	0.00013793
AA56000Y	$ 137.19	4,080,775	0.00003362	0.00003362	0.00003362
AA66000Y	$ 151.63	4,080,775	0.00003716	0.00003716	0.00003716
TOTAL	**$ 24,920.71**		**0.00071005**	**0.00082570**	**0.00075232**
TOTAL $			**$0.00071**	**$0.00083**	**[illegible]**

1) CBT Cost represents machine costs ONLY and was obtained from Jim Abt.

2) Message Counts were obtained from the following:

Job Name	Description - Message Count Origin
AA38800Y	COMPIS/OSPS Unrated EMR edit - AA388 Message Count Report
AA39000Y	MPS Received Collects - AA390 Message Count Report
AA39900Y	Standard AMA format entry - AA399 Message Count Report
AA41000Y	Line Sort - Count of messages written to 410 output files
AA42000Y	Prerate - Count of messages of the 410 output files (this is input to AA420)
AA44000Y	Rating - System Control Reports
AA45000Y	Master File Update - System Control Reports
AA46100Y	Bill Calculation - System Control Reports
AA50000Y	Stat Trapdoor - Count of msgs on 410 stat file plus 420 stat file calculation*
AA52000Y	USP Trapdoor - AA420 USP file calculation*
AA54000Y	Rating Trapdoor - System Control Reports (Output File of AA440)
AA56000Y	Billing Trapdoor - System Control Reports (Output File of AA461)
AA66000Y	Billing Trapdoor - System Control Reports (Output File of AA461)

* File calculation were obtained by multiplying the number of blocks used on the tape by the number of records in a block (i.e. 54).

3) Programs that do not process messages are not included (i.e. MGDB, TORC, etc.).

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DS

Cost Per Message for April 1996

Job Name	CBT Cost	Msg Count	Cost/OSPS	Cost/Rec. Collect	Cost/AMA
AA38800Y	$ 100.03	2,596,768	0.00003852		
AA39000Y	$ 302.48	2,022,680		0.00014954	
AA39900Y	$ 10,283.16	113,000,000			0.00009100
AA41000Y	$ 3,740.89	108,848,233	0.00003437	0.00003437	0.00003437
AA42000Y	$ 2,519.02	21,439,496	0.00011749	0.00011749	0.00011749
AA44000Y	$ 161.09	5,868,748	0.00002745	0.00002745	0.00002745
AA45000Y	$ 637.49	58,263,130	0.00001094	0.00001094	0.00001094
AA46100Y	$ 984.33	4,943,569	0.00019911	0.00019911	0.00019911
AA50000Y	$ 4,675.89	116,719,854	0.00004006	0.00004006	0.00004006
AA52000Y	$ 48.84	5,496,498	0.00000889	0.00000889	0.00000889
AA54000Y	$ 764.50	5,800,699	0.00013179	0.00013179	0.00013179
AA56000Y	$ 141.35	4,120,128	0.00003431	0.00003431	0.00003431
AA66000Y	$ 141.63	4,120,128	0.00003438	0.00003438	0.00003438
TOTAL	**$ 24,500.70**		**0.00067731**	**0.00078833**	**0.00072979**
TOTAL $			**$0.00068**	**$0.00079**	[illegible]

1) CBT Cost represents machine costs ONLY and was obtained from Jim Abt.

2) Message Counts were obtained from the following:

Job Name	Description - Message Count Origin
AA38800Y	COMPIS/OSPS Unrated EMR edit - AA388 Message Count Report
AA39000Y	MPS Received Collects - AA390 Message Count Report
AA39900Y	Standard AMA format entry - AA399 Message Count Report
AA41000Y	Line Sort - Count of messages written to 410 output files
AA42000Y	Prerate - Count of messages of the 410 output files (this is input to AA420)
AA44000Y	Rating - System Control Reports
AA45000Y	Master File Update - System Control Reports
AA46100Y	Bill Calculation - System Control Reports
AA50000Y	Stat Trapdoor - Count of msgs on 410 stat file plus 420 stat file calculation*
AA52000Y	USP Trapdoor - AA420 USP file calculation*
AA54000Y	Rating Trapdoor - System Control Reports (Output File of AA440)
AA56000Y	Billing Trapdoor - System Control Reports (Output File of AA461)
AA66000Y	Billing Trapdoor - System Control Reports (Output File of AA461)

* File calculation were obtained by multiplying the number of blocks used on the tape by the number of records in a block (i.e. 54).

3) Programs that do not process messages are not included (i.e. MGDB, TORC, etc.).

DS4

Cost Per Message for May 1996

Job Name	CBT Cost	Msg Count	Cost/OSPS	Cost/Rec. Collect	Cost/AMA
AA38800Y	$ 103.60	2,566,787	0.00004036		
AA39000Y	$ 309.57	2,145,456		0.00014429	
AA39900Y	$ 10,416.39	119,000,000			0.00008753
AA41000Y	$ 3,841.83	114,532,412	0.00003354	0.00003354	0.00003354
AA42000Y	$ 2,629.48	21,003,080	0.00012519	0.00012519	0.00012519
AA44000Y	$ 163.91	5,905,140	0.00002776	0.00002776	0.00002776
AA45000Y	$ 696.40	61,713,082	0.00001128	0.00001128	0.00001128
AA46100Y	$ 893.12	5,381,100	0.00016597	0.00016597	0.00016597
AA50000Y	$ 4,762.96	117,404,483	0.00004057	0.00004057	0.00004057
AA52000Y	$ 84.09	5,828,112	0.00001443	0.00001443	0.00001443
AA54000Y	$ 797.29	5,766,942	0.00013825	0.00013825	0.00013825
AA56000Y	$ 145.31	4,294,242	0.00003384	0.00003384	0.00003384
AA66000Y	$ 134.68	4,294,242	0.00003136	0.00003136	0.00003136
TOTAL	**$24,978.63**		**0.00066257**	**0.00076649**	**0.00070974**
TOTAL $			**$0.00066**	**$0.00077**	**[redacted]**

1) CBT Cost represents machine costs ONLY and was obtained from Jim Abt.

2) Message Counts were obtained from the following:

Job Name	Description - Message Count Origin
AA38800Y	COMPIS/OSPS Unrated EMR edit - AA388 Message Count Report
AA39000Y	MPS Received Collects - AA390 Message Count Report
AA39900Y	Standard AMA format entry - AA399 Message Count Report
AA41000Y	Line Sort - Count of messages written to 410 output files
AA42000Y	Prerate - Count of messages of the 410 output files (this is input to AA420)
AA44000Y	Rating - System Control Reports
AA45000Y	Master File Update - System Control Reports
AA46100Y	Bill Calculation - System Control Reports
AA50000Y	Stat Trapdoor - Count of msgs on 410 stat file plus 420 stat file calculation*
AA52000Y	USP Trapdoor - AA420 USP file calculation*
AA54000Y	Rating Trapdoor - System Control Reports (Output File of AA440)
AA56000Y	Billing Trapdoor - System Control Reports (Output File of AA461)
AA66000Y	Billing Trapdoor - System Control Reports (Output File of AA461)

* File calculation were obtained by multiplying the number of blocks used on the tape by the number of records in a block (i.e. 54).

3) Programs that do not process messages are not included (i.e. MGDB, TORC, etc.).

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CHUCK DSS

CINCINNATI BELL TELEPHONE
SWITCHING COST INFORMATION SYSTEM
5 ESS GRAND WEIGHTED SMORT to NCAT REPORT

Study: 5E NISDN- includes National ISDN 50% disc.

May 22, 19
Version 2

Economic Option: Average
Total Offices: -2
Total Remotes: 0

Generic: 5E9.2 - Nat IS
Effective Date: 02/01/19

	E, F & I Unit Investment
Getting Started Inv. Per MS:	1.00585
SM Real Time Inv. Per EPHC:	3.80398
SM-2000 Real Time Inv. Per EPHC:	0.00000
Line Termination Inv.	
Minimum Inv. Per Line:	70.31891
Inv. Per Line CCS (O+T):	22.84147
Inv. Per Call Type	
Inv. Per Terminating Call:	1.7107
Inv. Per SS7 Octet:	0.0007482
ATAD AMA Resource Investments	
AMA Storage Inv. per Local Call:	0.00708
AMA Storage Inv. per Toll Call:	0.00780
AMA Storage Inv. per Packet Call:	0.00816
AMA Storage Inv. per SCA/CAR Call:	0.00960
AMA Storage Inv. per LASS Call:	0.00852
Inv. Per Trunk CCS (O+I):	7.20659
Inv. Per Tandem Trunk CCS (O+I):	NA
Umbilical Trunk Inv. Per CCS (O+I):	0.00000
Inv. Per Local Analog Trunk:	0.00000
Inv. Per Local Analog Trunk CCS:	NA
Inv. Per Local Digital Trunk:	190.04726
Inv. Per Local Digital Trunk CCS:	0.00000
Inv. Per Tandem Analog Trunk:	NA
Inv. Per Tandem Analog Trunk CCS:	NA
Inv. Per Tandem Digital Trunk:	NA
Inv. Per Tandem Digital Trunk CCS:	NA
Inv. Per Umbilical Trunk:	0.00000
Inv. Per Umbilical Trunk CCS:	0.00000
M Inv. Per EPHC (O+I Umbil):	0.00000
Percent Of Calls On SM-2000s (%):	NA

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 1

ANNUALIZED INCREMENTAL MESSAGES AND MINUTES
BY DISTANCE BAND BY RATE PERIOD.

DISTANCE BAND	RATE PERIOD	MESSAGES	TOTAL MINUTES	AVG MIN./MSG
0.0-9999.9	08-07	35194768.684	132851360.341	3.775
	TOTAL	35194768.684	132851360.341	3.775
ALL	08-07	35194768.684	132851360.341	3.775
	TOTAL	35194768.684	132851360.341	3.775

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LDCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 2

TRAFFIC SENSITIVE UNIT COST - SETUP RELATED

DISTANCE BAND	RP	TOTAL	SWITCHING EO	SWITCHING TDM	SWITCHING MEAS	TRUNKING FAC	TRUNKING TERM	SS7
0.0-9999.9	08-07	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041	0.000000
	AVG	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041	0.000000
ALL	08-07	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041	0.000000
	AVG	0.002398	0.001760	0.000560	0.000025	0.000012	0.000041	0.000000

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LCOAVG
VER : A.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 3

TRAFFIC SENSITIVE UNIT COST - DURATION RELATED

DISTANCE BAND	RP	TOTAL	SWITCHING EO	SWITCHING TDM	SWITCHING MEAS	TRUNKING FAC	TRUNKING TERM
0.0-9999.9	CB-07	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821
	AVG	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821
ALL	CB-07	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821
	AVG	0.003482	0.001949	0.000494	0.000000	0.000218	0.000821

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FSD

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:12:08
PAGE : 4

UNIT COST SUMMARY

DISTANCE BAND	RP (Hrs)	COST/MSG (SETUP)	EXP/MSG	COST/MIN DURATION	EXP/MIN	COST / FIRST MIN	COST / ADDL MIN	COST/MIN (AVG.)	COST/CALL (AVG.)
0.0-9999.9	08-07	0.002398	0.000000	0.003482	0.000000	0.005880	0.003482	0.004117	0.015543
	AVG	0.002398	0.000000	0.003482	0.000000	0.005880	0.003482	0.004117	0.015543
ALL	08-07	0.002398	0.000000	0.003482	0.000000	0.005880	0.003482	0.004117	0.015543
	AVG	0.002398	0.000000	0.003482	0.000000	0.005880	0.003482	0.004117	0.015543

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DB : LCCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 22-JAN-97
TIME 19:12:08
PAGE 5

INCREMENTAL INVESTMENTS - SETUP

DISTANCE BAND	RP	SWITCHING EO	SWITCHING TDM	SWITCHING MEAS	TRUNKING FAC	TRUNKING TERM	SS7
0.0-9999.9	08-07	198283.07	63089.73	2834.86	1608.16	3925.34	0.00
	TOTAL	198283.07	63089.73	2834.86	1608.16	3925.34	0.00
ALL	08-07	198283.07	63089.73	2834.86	1608.16	3925.34	0.00
	TOTAL	198283.07	63089.73	2834.86	1608.16	3925.34	0.00

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DB : LCCAVG
VER : 4.0
CALC TYPE : AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME 19:12:08
PAGE 6

INCREMENTAL INVESTMENTS - DURATION

DISTANCE BAND	RP	SWITCHING EO	SWITCHING TDM	SWITCHING MEAS	TRUNKING FAC	TRUNKING TERM
0.0-9999.9	08-07	829006.50	210097.21	0.00	107100.38	296750.35
	TOTAL	829006.50	210097.21	0.00	107100.38	296750.35
ALL	08-07	829006.50	210097.21	0.00	107100.38	296750.35
	TOTAL	829006.50	210097.21	0.00	107100.38	296750.35

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:25:27
PAGE X 1

COMMON/DEDICATED REPORT

"Distance Band",1.00
"Common Termination Costs",2939.372937
"Common Outside Plant Costs",18252.067411
"Common Tandem Termination Costs",1755.486340
"Dedicated Termination Costs",12045.409639
"Dedicated Outside Plant Costs",92678.577749
"Dedicated Tandem Termination Costs",0.000000
"Tandem Costs",85332.792808
"Common Minutes",39070431.50
"Dedicated Minutes",100255978.00
"Pure Dedicated Minutes",0.00
"Dedicated Circuits EO-SWC",1447.597706
"Dedicated Circuits TDM",0.000000
"Common Air Mile Minutes",348599900.00
"Dedicated Circuit Air Miles EO-SWC",13407.497620
"Dedicated Circuit Air Miles TDM",0.000000
"Common Circuits TDM-SWC",34.438661
"Common Circuits EO-TDM" 241.728374
"Common Circuits TDM-TDM",0.000000
"Common Circuits Umbilical",60.149270
"Common Circuit Air Miles TDM-SWC",98.617317
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"Common Terminations - TDM",276.167042
"Common Intermediate Terminations",1196.256958
"Dedicated Terminations - EO",1447.597706
"Dedicated Terminations - SWC",130.586542
"Dedicated Terminations - TDM",0.000000
"Dedicated Intermediate Terminations",5602.469482

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NETWORK COST ANALYSIS TOOL (NCAT)
UNBUNDLED - FGD

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: ACCESSA

RUN DATE: 20-JAN-97
TIME : 19:26:27
PAGE 2 0

"Distance Band","Total",
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"Common Outside Plant Costs",18252.067411
"Common Tandem Terminations Costs",1755.486340
"Dedicated Termination Costs",12045.409639
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"Common Minutes",39070431.50
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"Dedicated Circuit Air Miles EO-SWC",13407.497620
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"Common Terminations - TDM",276.167042
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"Dedicated Terminations - TDM",0.000000
"Dedicated Intermediate Terminations",5602.469482

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TRUNK TERMINATION
(TELRIC)

MCI Depo.
Ex. No. 46
DJH 11-26-97

Central Office Trunk Termination Summary

End Office Monthly Cost

		Total		
Band 1	$	162.57	•	1
Band 2	$	164.76	•	2
Band 3	$	354.14	•	3
Average	$	163.98	•	4

Sources: L1, - See Tab A, Page 1, L19. •
L2, - See Tab A, Page 2, L19. •
L3, - See Tab A, Page 3, L19. •
L4, - See Tab A, Page 4, L19. •

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Trunk Band 1

	Description A	Sources B	Total C
1)	SCIS Investment	(per T1) Tab A, Page 5, L25, Col H * 24	$ 1,249.06
2)	SCIS Spare Capacity	(per T1) Tab A, Page 5, L25, Col I * 24	$ 3,344.79
3)	Filled Investment	Line 1 + Line 2	$ 4,593.84
4)	Telco Engineering Factor	Network Engineering	11.5%
5)	Installed Investment	Line 3 * (1 + Line 4)	$ 5,122.14
6)	Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7)	Total Digital Switch Investment (377c)	Line 5 * Line 6	$ 5,491.44
8)	Annual Charge Factor (377c)	See Tab B, Page 1, Col J / 100	0.3165
9)	Monthly Cost (377c)	Line 7 * Line 8 /12	$ 144.86
10)	Land Factor	Factor File (1994)	0.0056
11)	Land Investment (20jc)	Line 7 * Line 10	$ 30.75
12)	Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13)	Monthly Cost (20jc)	Line 11 * Line 12 /12	$ 0.57
14)	Bldg Factor	Factor File (1994)	0.1316
15)	Bldg Investment (10jc)	Line 7 * Line 14	$ 722.67
16)	Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17)	Monthly Cost (10jc)	Line 15 * Line 16 /12	$ 17.15
18)	Total Investment	Line 7 + Line 11 + Line 15	$ 6,244.87
19)	Total Monthly Cost	Line 9 + Line 13 + Line 17	$ 162.57

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Trunk Band 2

	Description A	Sources B	Total C
1)	SCIS Investment	(per T1) Tab A. Page 5. L37. Col H * 24	$ 1,249.06
2)	SCIS Spare Capacity	(per T1) Tab A. Page 5. L37. Col I * 24	$ 3,406.66
3)	Filled Investment	Line 1 + Line 2	$ 4,655.71
4)	Telco Engineering Factor	Network Engineering	11.5%
5)	Installed Investment	Line 3 * (1 + Line 4)	$ 5,191.12
6)	Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7)	Total Digital Switch Investment (377c)	Line 5 * Line 6	$ 5,565.40
8)	Annual Charge Factor (377c)	See Tab B. Page 1. Col J / 100	0.3165
9)	Monthly Cost (377c)	Line 7 * Line 8 /12	$ 146.81
10)	Land Factor	Factor File (1994)	0.0056
11)	Land Investment (20jc)	Line 7 * Line 10	$ 31.17
12)	Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13)	Monthly Cost (20jc)	Line 11 * Line 12 /12	$ 0.58
14)	Bldg Factor	Factor File (1994)	0.1316
15)	Bldg Investment (10jc)	Line 7 * Line 14	$ 732.41
16)	Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17)	Monthly Cost (10jc)	Line 15 * Line 16 /12	$ 17.38
18)	Total Investment	Line 7 + Line 11 + Line 15	$ 6,328.97
19)	Total Monthly Cost	Line 9 + Line 13 + Line 17	$ 164.76

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Trunk Band 3

	Description A	Sources B	Total C
1)	SCIS Investment	(per T1) Tab A. Page 5. L45. Col H * 24	$ 10,006.92
2)	SCIS Spare Capacity	(per T1) Tab A. Page 5. L45. Col I * 24	$ -
3)	Filled Investment	Line 1 + Line 2	$ 10,006.92
4)	Telco Engineering Factor	Network Engineering	11.5%
5)	Installed Investment	Line 3 * (1 + Line 4)	$ 11,157.71
6)	Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7)	Total Digital Switch Investment (377c)	Line 5 * Line 6	$ 11,962.18
8)	Annual Charge Factor (377c)	See Tab B. Page 1. Col J / 100	0.3165
9)	Monthly Cost (377c)	Line 7 * Line 8 /12	$ 315.55
10)	Land Factor	Factor File (1994)	0.0056
11)	Land Investment (20jc)	Line 7 * Line 10	$ 66.99
12)	Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13)	Monthly Cost (20jc)	Line 11 * Line 12 /12	$ 1.25
14)	Bldg Factor	Factor File (1994)	0.1316
15)	Bldg Investment (10jc)	Line 7 * Line 14	$ 1,574.22
16)	Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17)	Monthly Cost (10jc)	Line 15 * Line 16 /12	$ 37.36
18)	Total Investment	Line 7 + Line 11 + Line 15	$ 13,603.40
19)	Total Monthly Cost	Line 9 + Line 13 + Line 17	$ 354.14

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Average End Office Trunk Termination

	Description A	Sources B	Total C
1)	SCIS Investment	(per T1) Tab A, Page 5, L46, Col H * 24	$ 1,304.26
2)	SCIS Spare Capacity	(per T1) Tab A, Page 5, L46, Col I * 24	$ 3,329.36
3)	Filled Investment	Line 1 + Line 2	$ 4,633.63
4)	Telco Engineering Factor	Network Engineering	11.5%
5)	Installed Investment	Line 3 * (1 + Line 4)	$ 5,166.49
6)	Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0721
7)	Total Digital Switch Investment (377c)	Line 5 * Line 6	$ 5,539.00
8)	Annual Charge Factor (377c)	See Tab B, Page 1, Col J / 100	0.3165
9)	Monthly Cost (377c)	Line 7 * Line 8 /12	$ 146.11
10)	Land Factor	Factor File (1994)	0.0056
11)	Land Investment (20jc)	Line 7 * Line 10	$ 31.02
12)	Annual Charge Factor (20jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2232
13)	Monthly Cost (20jc)	Line 11 * Line 12 /12	$ 0.58
14)	Bldg Factor	Factor File (1994)	0.1316
15)	Bldg Investment (10jc)	Line 7 * Line 14	$ 728.93
16)	Annual Charge Factor (10jc)	1997 TELRIC Annual Charge %, Intrastate Ohio - 1/19/97	0.2847
17)	Monthly Cost (10jc)	Line 15 * Line 16 /12	$ 17.28
18)	Total Investment	Line 7 + Line 11 + Line 15	$ 6,298.95
19)	Total Monthly Cost	Line 9 + Line 13 + Line 17	$ 163.98

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		TRUNK TERMINATION INVESTMENTS BY CENTRAL OFFICE BUILDING	INCREM. INVEST. A	JOINT INVEST. B	TOTAL INVEST. C	DID ANALOG (1995) D	TOTAL INCREM. INVEST. E=A*D	TOTAL JOINT INVEST. F=B*D	TOTAL TOTAL INVEST. G=C*D	AVG. INCRM. INV. H=E/D	AVG. JOINT INV. I=F/D	AVG. TOTAL INV. J=G/D
1	Band 1											
2	WS	WEST SEVENTH	$52.04410	$136.24387	$188.28797	4,414	$229,722.56	$601,380.44	$831,103.10			
3	AV	AVONDALE	$52.04410	$140.84419	$192.88829	1,235	$53,865.64	$145,773.74	$199,639.38			
4	NW	NORWOOD	$52.04410	$140.81810	$192.86220	345	$17,955.21	$48,582.25	$66,537.46			
5	PH	- PRICE HILL	$52.04410	$135.40294	$187.44704	190	$9,888.38	$25,726.56	$35,614.94			
6	EV	EVENDALE	$52.04410	$135.96706	$188.01116	716	$37,263.58	$97,352.41	$134,615.99			
7	SB	ST. BERNARD	$52.04410	$155.90950	$207.95360	278	$14,468.26	$43,342.84	$57,811.10			
8	WD	WESTWOOD	$52.04410	$147.17834	$199.22244	27	$1,405.19	$3,973.82	$5,379.01			
9	HW	- HARTWELL	$52.04410	$155.90950	$207.95360	190	$9,888.38	$29,622.81	$39,511.18			
10	HP	HYDE PARK	$52.04410	$140.81810	$192.86220	71	$3,695.13	$9,998.09	$13,693.22			
11	MH	MT. HEALTHY	$52.04410	$132.80170	$184.84580	20	$1,040.88	$2,656.03	$3,696.92			
12	NS	NORTHSIDE	$52.04410	$130.64547	$182.68957	200	$10,408.82	$26,129.09	$36,537.91			
13	MO	MONTGOMERY	$52.04410	$144.10789	$196.15199	379	$19,724.71	$54,616.89	$74,341.60			
14	CD	COVEDALE	$52.04410	$135.40294	$187.44704	67	$3,486.95	$9,072.00	$12,558.95			
15	FF	FAIRFIELD	$52.04410	$140.81810	$192.86220	8	$416.35	$1,126.54	$1,542.90			
16	RO	ROSSMOYNE	$52.04410	$147.75279	$199.79689	717	$37,315.62	$105,938.75	$143,254.37			
17	GD	GLENDALE	$52.04410	$148.50512	$200.54922	618	$32,163.25	$91,776.16	$123,939.42			
18	NG	NORTH GREENHILLS	$52.04410	$107.64684	$159.69094	159	$8,275.01	$17,115.85	$25,390.86			
19	CG	CHERRY GROVE	$52.04410	$128.40298	$180.44708	100	$5,204.41	$12,840.30	$18,044.71			
20	CS	CRESCENTVILLE	$52.04410	$140.36672	$192.41082	503	$26,178.18	$70,604.46	$96,782.64			
21	CH	CHEVIOT	$52.04410	$137.66443	$189.70853	15	$780.66	$2,064.97	$2,845.63			
22	MA	- MADISONVILLE	$52.04410	$140.81810	$192.86220	248	$12,906.94	$34,922.89	$47,829.83			
23	MW	MT. WASHINGTON	$52.04410	$148.13057	$200.17467	85	$4,423.75	$12,608.10	$17,031.85			
24	GR	GROESBECK	$52.04410	$140.81810	$192.86220	63	$3,278.78	$8,871.54	$12,150.32			
25		Total				10,448	$543,756.76	$1,456,096.52	$1,999,853.28	$ 52.04	$ 139.37	$ 191.41
	Band 2											
26	TO	TOBASCO	$52.04410	$152.21907	$204.26317	65	$3,382.87	$9,894.24	$13,277.11			
27	WC	- WEST CHESTER	$52.04410	$135.96706	$188.01116	2	$104.09	$271.93	$376.02			
28	MF	MILFORD	$52.04410	$144.24077	$196.28487	235	$12,230.36	$33,896.58	$46,126.94			
29	LO	LOVELAND	$52.04410	$151.42375	$203.46785	160	$8,327.06	$24,227.80	$32,554.86			
30	HM	HAMILTON	$52.04410	$140.81810	$192.86220	378	$19,672.67	$53,229.24	$72,901.91			
31	GO	- GOSHEN	$52.04410	$147.75279	$199.79689	-	$0.00	$0.00	$0.00			
32	SP	SAYLER PARK	$52.04410	$150.70804	$202.75214	25	$1,301.10	$3,767.70	$5,068.80			
33	HT	HAMLET	$438.58368	$0.00000	$438.58368	-	$0.00	$0.00	$0.00			
34	BA	- BATAVIA	$52.04410	$128.40298	$180.44708	135	$7,025.95	$17,334.40	$24,360.36			
35	MM	MIAMI	$438.58368	$0.00000	$438.58368	-	$0.00	$0.00	$0.00			
36	HR	- HARRISON	$52.04410	$130.64547	$182.68957	60	$3,122.65	$7,838.73	$10,961.37			
37		Total				1,060	$55,166.75	$150,468.63	$205,627.37	$ 52.04	$ 141.94	$ 193.99
	Band 3											
38	BE	BETHEL	$438.58368	$0.00000	$438.58368	1	$438.58	$0.00	$438.58			
39	NR	NEW RICHMOND	$416.65450	$0.00000	$416.65450	4	$1,666.62	$0.00	$1,666.62			
40	SH	SHANDON	$416.65450	$0.00000	$416.65450	38	$15,832.87	$0.00	$15,832.87			
41	WB	WILLIAMSBURG	$416.65450	$0.00000	$416.65450	27	$11,249.67	$0.00	$11,249.67			
42	NE	NEWTONSVILLE	$416.65450	$0.00000	$416.65450	3	$1,249.96	$0.00	$1,249.96			
43	SM	SEVEN MILE	$416.65450	$0.00000	$416.65450	-	$0.00	$0.00	$0.00			
44	RE	REILY	$438.58368	$0.00000	$438.58368	-	$0.00	$0.00	$0.00			
45		Total				73	$30,437.71	$0.00	$30,437.71	$ 416.95	$ -	$ 416.95
46		Average/Composite Office				11,581	629,361	1,606,557	2,235,918	$ 54.34	$ 138.72	$ 193.07

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Sources: L2, - See Tab A, Page 7, L39.
L3, - See Tab A, Page 7, L1.
L4, - See Tab A, Page 7, L29.
L5, - See Tab A, Page 7, L7.
L6, - See Tab A, Page 7, L9.
L7, - See Tab A, Page 7, L36.
L8, - See Tab A, Page 7, L40.
L9, - See Tab A, Page 7, L37.
L10, - See Tab A, Page 7, L16.
L11, - See Tab A, Page 7, L22.
L12, - See Tab A, Page 7, L27.
L13, - See Tab A, Page 7, L21.
L14, - See Tab A, Page 7, L6.
L15, - See Tab A, Page 7, L11.
L16, - See Tab A, Page 7, L31.
L17, - See Tab A, Page 7, L12.
L18, - See Tab A, Page 7, L26.
L19, - See Tab A, Page 7, L3.
L20, - See Tab A, Page 7, L8.
L21, - See Tab A, Page 7, L5.
L22, - See Tab A, Page 7, L17.
L23, - See Tab A, Page 7, L23.
L24, - See Tab A, Page 7, L13.
L25, Cols D-G, = Sum of L2 to L24.
L26, - See Tab A, Page 7, L38.
L27, - See Tab A, Page 7, L10.
L28, - See Tab A, Page 7, L20.
L29, - See Tab A, Page 7, L18.
L30, - See Tab A, Page 7, L14.
L31, - See Tab A, Page 7, L32.
L32, - See Tab A, Page 7, L33.
L33, - See Tab A, Page 7, L15.
L34, - See Tab A, Page 7, L4.
L35, - See Tab A, Page 7, L19.
L36, - See Tab A, Page 7, L28.
L37, Cols D-G, = Sum of L26 to L36.
L38, - See Tab A, Page 7, L2.
L39, - See Tab A, Page 7, L24.
L40, - See Tab A, Page 7, L35.
L41, - See Tab A, Page 7, L41.
L42, - See Tab A, Page 7, L25.
L43, - See Tab A, Page 7, L34.
L44, - See Tab A, Page 7, L30.
L45, Cols D-G, = Sum of L38 to L44.
L46, Cols D-G, = Sum of L25 + L37 + L45.

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TRUNK TERM. (DID) TOTAL OFFICES - OHIO
INVESTMENTS BY CENTRAL OFFICE

		BUILDING	EQUIP TYPE	INCREM. INVEST.	JOINT INVEST.	TOTAL INVEST.	DID ANALOG [1995]	TOTAL INCREM. INVEST.	WORKING TOTAL JOINT INVEST.	TOTAL TOTAL INVEST.
				A	B	C=A+B	D	E=A*D	F=B*D	G=C*D
1	AV	AVONDALE	5ES	$52.04410	$140.84419	$192.88829	1.035	$53,865.64	$145,773.74	$199,639.38
2	BE	BETHEL	D10	$438.58368	$0.00000	$438.58368	1	$438.58	$0.00	$438.58
3	CG	CHERRY GROVE	5ES	$52.04410	$128.40298	$180.44708	100	$5,204.41	$12,840.30	$18,044.71
4	BA	- BATAVIA	5ES	$52.04410	$128.40298	$180.44708	135	$7,025.95	$17,334.40	$24,360.36
	CH	CHEVIOT	5ES	$52.04410	$137.66443	$189.70853	15	$780.66	$2,064.97	$2,845.63
6	CD	COVEDALE	5ES	$52.04410	$135.40294	$187.44704	67	$3,486.95	$9,072.00	$12,558.95
7	PH	- PRICE HILL	5ES	$52.04410	$135.40294	$187.44704	190	$9,888.38	$25,726.56	$35,614.94
8	CS	CRESCENTVILL	5ES	$52.04410	$140.36672	$192.41082	503	$26,178.18	$70,604.46	$96,782.64
9	EV	EVENDALE	5ES	$52.04410	$135.96706	$188.01116	716	$37,263.58	$97,352.41	$134,615.99
10	WC	- WEST CHESTER	5ES	$52.04410	$135.96706	$188.01116	2	$104.09	$271.93	$376.02
11	FF	FAIRFIELD	AVG 5	$52.04410	$140.81810	$192.86220	8	$416.35	$1,126.54	$1,542.90
12	GD	GLENDALE	5ES	$52.04410	$148.50512	$200.54922	618	$32,163.25	$91,776.16	$123,939.42
13	GR	GROESBECK	AVG 5	$52.04410	$140.81810	$192.86220	63	$3,278.78	$8,871.54	$12,150.32
	HM	HAMILTON	AVG 5	$52.04410	$140.81810	$192.86220	378	$19,672.67	$53,229.24	$72,901.91
15	HT	HAMLET	D10	$438.58368	$0.00000	$438.58368	0	$0.00	$0.00	$0.00
16	HP	HYDE PARK	AVG 5	$52.04410	$140.81810	$192.86220	71	$3,695.13	$9,998.09	$13,693.22
17	MA	- MADISONVILLE	AVG 5	$52.04410	$140.81810	$192.86220	248	$12,906.94	$34,922.89	$47,829.83
18	LO	LOVELAND	5ES	$52.04410	$151.42375	$203.46785	160	$8,327.06	$24,227.80	$32,554.86
19	MM	MIAMI	D10	$438.58368	$0.00000	$438.58368	0	$0.00	$0.00	$0.00
20	MF	MILFORD	5ES	$52.04410	$144.24077	$196.28487	235	$12,230.36	$33,896.58	$46,126.94
21	MO	MONTGOMERY	5ES	$52.04410	$144.10789	$196.15199	379	$19,724.71	$54,616.89	$74,341.60
22	MH	MT. HEALTHY	5ES	$52.04410	$132.80170	$184.84580	20	$1,040.88	$2,656.03	$3,696.92
23	MW	MT. WASH.	5ES	$52.04410	$148.33057	$200.37467	85	$4,423.75	$12,608.10	$17,031.85
24	NR	NEW RICHMOND	D10	$416.65450	$0.00000	$416.65450	4	$1,666.62	$0.00	$1,666.62
25	NE	NEWTONSVILLE	D10	$416.65450	$0.00000	$416.65450	3	$1,249.96	$0.00	$1,249.96
26	NG	N. GREENHILLS	5ES	$52.04410	$107.64684	$159.69094	159	$8,275.01	$17,115.85	$25,390.86
27	NS	NORTHSIDE	5ES	$52.04410	$130.64547	$182.68957	200	$10,408.82	$26,129.09	$36,537.91
28	HR	- HARRISON	5ES	$52.04410	$130.64547	$182.68957	60	$3,122.65	$7,838.73	$10,961.37
29	NW	NORWOOD	AVG 5	$52.04410	$140.81810	$192.86220	345	$17,955.21	$48,582.25	$66,537.46
30	RE	REILY	D10	$438.58368	$0.00000	$438.58368	0	$0.00	$0.00	$0.00
31	RO	ROSSMOYNE	5ES	$52.04410	$147.75279	$199.79689	717	$37,315.62	$105,938.75	$143,254.37
32	GO	- GOSHEN	5ES	$52.04410	$147.75279	$199.79689	0	$0.00	$0.00	$0.00
33	SP	SAYLER PARK	5ES	$52.04410	$150.70804	$202.75214	25	$1,301.10	$3,767.70	$5,068.80
34	SM	SEVEN MILE	D10	$416.65450	$0.00000	$416.65450	0	$0.00	$0.00	$0.00
35	SH	SHANDON	D10	$416.65450	$0.00000	$416.65450	38	$15,832.87	$0.00	$15,832.87
36	SB	ST. BERNARD	5ES	$52.04410	$155.90950	$207.95360	278	$14,468.26	$43,342.84	$57,811.10
37	HW	- HARTWELL	5ES	$52.04410	$155.90950	$207.95360	190	$9,888.38	$29,622.81	$39,511.19
38	TO	TOBASCO	5ES	$52.04410	$152.21907	$204.26317	65	$3,382.87	$9,894.24	$13,277.11
39	WS	WEST SEVENTH	5ES	$52.04410	$136.24387	$188.28797	4,414	$229,722.66	$601,380.44	$831,103.10
40	WD	WESTWOOD	5ES	$52.04410	$147.17834	$199.22244	27	$1,405.19	$3,973.82	$5,379.01
41	WB	WILLIAMSBURG	D10	$416.65450	$0.00000	$416.65450	27	$11,249.67	$0.00	$11,249.67
		TOTAL					11,581	$629,361.21	$1,606,557.15	$2,235,918.36
43		5E OFFICE TOTALS		$1,040.88200	$2,816.36204	$3,857.24404				
44		NUMBER OF OFFICES (OH		/ 20	/ 20	/ 20				
45		AVG 5E OFFICE AMOUNT		$ 52.04410	$ 140.81810	$ 192.86220				

CBT AVG TRUNK TERM. COST	$54.34	$138.72	$193.07

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DESTROY BY SHREDDING

Sources: Cols A & B, L1, - See Tab C, Page 1. (Green, Blue)·
Cols A & B, L2, - See Tab C, Page 2. (Green, Blue).
Cols A & B, L3, - See Tab C, Page 3. (Green, Blue)·
Cols A & B, L4, - See Host - Tab C, Page 3. (Green, Blue)·
Cols A & B, L5, - See Tab C, Page 5. (Green, Blue)·
Cols A & B, L6, - See Tab C, Page 6. (Green, Blue)·
Cols A & B, L7, - See Host - Tab C, Page 6. (Green, Blue)·
Cols A & B, L8, - See Tab C, Page 8. (Green, Blue)·
Cols A & B, L9, - See Tab C, Page 9. (Green, Blue)·
Cols A & B, L10, - See Host - Tab C, Page 9. (Green, Blue)·
Cols A-C, L11, Assume forward looking technology, used 5E avg, - See L45, Cols A-C.·
Cols A & B, L12, - See Tab C, Page 11. (Green, Blue)·
Cols A-C, L13, Current data unavailable, used 5E average, - See L45, Cols A-C:
Cols A-C, L14, Assume forward looking technology, used 5E avg, - See L45, Cols A-C.·
Cols A & B, L15, - See Tab C, Page 12. (Green, Blue)·
Cols A-C, L16, Current data unavailable, used 5E average, - See L45, Cols A-C.·
Cols A-C, L17, Current data unavailable, used 5E average, - See L45, Cols A-C.·
Cols A & B, L18, - See Tab C, Page 13. (Green, Blue)·
Cols A & B, L19, - See Tab C, Page 14. (Green, Blue)·
Cols A & B, L20, - See Tab C, Page 15. (Green, Blue).
Cols A & B, L21, - See Tab C, Page 16. (Green, Blue)·
Cols A & B, L22, - See Tab C, Page 17. (Green, Blue).
Cols A & B, L23, - See Tab C, Page 18. (Green, Blue)·
Cols A & B, L24, - See Tab C, Page 19. (Green, Blue)·
Cols A & B, L25, - See Tab C, Page 20. (Green, Blue)·
Cols A & B, L26, - See Tab C, Page 21. (Green, Blue)·
Cols A & B, L27, - See Tab C, Page 22. (Green, Blue)·
Cols A & B, L28, - See Host - Tab C, Page 22. (Green, Blue)·
Cols A-C, L29, Assume forward looking technology, used 5E avg, - See L45, Cols A-C.·
Cols A & B, L30 - See Tab C, Page 24. (Green, Blue)·
Cols A & B, L31 - See Tab C, Page 25. (Green, Blue)·
Cols A & B, L32, - See Host - Tab C, Page 25. (Green, Blue)·
Cols A & B, L33 - See Tab C, Page 27. (Green, Blue)·
Cols A & B, L34 - See Tab C, Page 28. (Green, Blue)·
Cols A & B, L35 - See Tab C, Page 29. (Green, Blue).
Cols A & B, L36 - See Tab C, Page 30. (Green, Blue)·
Cols A & B, L37, - See Host - Tab C, Page 30. (Green, Blue)·
Cols A & B, L38 - See Tab C, Page 32. (Green, Blue)·
Cols A & B, L39 - See Tab C, Page 33. (Green, Blue)·
Cols A & B, L40 - See Tab C, Page 34. (Green, Blue)·
Cols A & B, L41 - See Tab C, Page 35. (Green, Blue)·
Col D, L1 to 41, See General Planning Forecast (EOY-1995), DID Analog Trunks·
L42 = Sum of L1 to L41:
L43, Cols A - C, = L1+L3+L5+L6+L8+L9+L12+L18+(L20 to L23)+L26+L27+ L31+L33+L36+(L38 to L40).
L44, Cols A-C, = the number of offices listed in L43. (20 offices)·
L44, Cols E-G, = L42, Cols E-G, / L42, Col D.·
L45 = L43 / L44 (20 offices).·

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Annual Charge Development

Ohio - 3^^C TELRIC

	SVC LIFE	BOOK DEPN (A)	POST TAX INC (B)	INC TAX (C)	PROP TAX (D)	TOTAL CAPITAL COSTS (E)=(A..D)	MTCE (F)	NEW COSTS ASSOC. WITH UNBUNDLED ELEMENTS (G)	DIR ADM EXP (I)	TOTAL DIRECTLY ASSIGNED EXPENSE (Incl GRT) (J)=(E..I)* 1.0499
1	12 *	8.45 *	6.06 *	2.48 *	3.23 *	20.21	5.29	0.57 *	4.14 *	31.65 *

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Source:
L1 - 1997 Annual Charge Development (Acct. 2212) 1/19/97*
L1 (Col. F) - 1996 Annual Charge Development, MTCE, P5, Ln. C239

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
5 ESS TRUNK TERMINATION REPORT

Office CLLI: CNCNOHAVDS1 - AVONDALE
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 5E9.2 - STANDARD
Effective Date: 02/01/1995

		E, F & I Unit Investment
Local Analog Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		192.88829
Trunk Termination Inv.:	52.04410	
Spare SM Term. Inv. Per Trunk:	140.84419	
Total Traffic Sensitive Inv.:		0.00000
Investment Per Trunk CCS:		12.52521
Local Digital DLTU Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital DNU-S Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
DMS-10 TRUNK TERMINATION REPORT

Office CLLI: BETHOHBEDS0 - BETHEL
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 408.1 - STANDARD
Effective Date: 11/01/1995

	E, F & I Unit Investment
Local Analog Trunk Termination Investment	
Total NTS Inv. (Trunk Termination):	NA
Total Traffic Sensitive Inv.:	NA
Investment Per Trunk CCS:	NA
Local Digital Trunk Termination Investment	
Total NTS Inv. (Trunk Termination):	[redacted]
Total Traffic Sensitive Inv.:	0.00000
Investment Per Trunk CCS:	19.49261

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
5 ESS TRUNK TERMINATION REPORT

Office CLLI: CHGVOHWOBA - CG - W/O BA
Office Type: End Office
Economic Option: Average

January 24, 1996
Version 2.1
Generic: 5E9.2 - STANDARD
Effective Date: 02/01/1995

		E, F & I Unit Investment
Local Analog Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		180.44708
Trunk Termination Inv.:	52.04410	
Spare SM Term. Inv. Per Trunk:	128.40298	
Total Traffic Sensitive Inv.:		0.00000
Investment Per Trunk CCS:		7.16060
Local Digital DLTU Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital DNU-S Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
5 ESS TRUNK TERMINATION REPORT

Remote CLLI: BATVOHBARS0 - BATAVIA-SM0
Remote Type: ORM - 100 Mile
Office CLLI: CHGVOHCGDS1 - CHERRY GROVE
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 5E9.2 - STANDARD
Effective Date: 02/01/1995

		E, F & I Unit Investment
Local Analog Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital DLTU Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital DNU-S Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
5 ESS TRUNK TERMINATION REPORT

Office CLLI: CHVTOHCHDS0 - CHEVIOT
Office Type: End Office
Economic Option: Average

January 11, 1996
Version 2.1
Generic: 5E9.2 - STANDARD
Effective Date: 02/01/1995

		E, F & I Unit Investment
Local Analog Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		189.70854
Trunk Termination Inv.:	52.04410	
Spare SM Term. Inv. Per Trunk:	137.66443	
Total Traffic Sensitive Inv.:		0.00000
Investment Per Trunk CCS:		6.30261
Local Digital DLTU Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital DNU-S Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA

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Cincinnati Bell Telephone
SWITCHING COST INFORMATION SYSTEM
5 ESS TRUNK TERMINATION REPORT

Office CLLI: CNCNCDWOPH - CD - W/O PH
Office Type: End Office
Economic Option: Average

January 24, 1996
Version 2.1
Generic: 5E9.2 - STANDARD
Effective Date: 02/01/1995

		E, F & I Unit Investment
Local Analog Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital Trunk Termination Investment		
Total Non-Traffic Sensitive Inv.:		187.44704
Trunk Termination Inv.:	52.[redacted]	
Spare SM Term. Inv. Per Trunk:	135.40294	
Total Traffic Sensitive Inv.:		0.00000
Investment Per Trunk CCS:		6.24823
Local Digital DLTU Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA
Local Digital DNU-S Termination Investment On SM2000		
Total Non-Traffic Sensitive Inv.:		NA
Trunk Termination Inv.:	NA	
Spare SM Term. Inv. Per Trunk:	NA	
Total Traffic Sensitive Inv.:		NA
Investment Per Trunk CCS:		NA

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