Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

Today's Date: MAY 11 2011

Page Count 200

Part 24

MCI Exhibits
1-48

C:\123R24\LCATR089\RESULTS1
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 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 13:54

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	$ 0.02		$ 0.00	$ 0.00		$ 0.02	$ 0.02
BUILDING	10C	$ 0.49		$ 0.00	$ 0.00		$ 0.49	$ 0.49
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - LOW CAP TERM	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - LOW CAP CHAN	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - HI CAP TERM	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - HI CAP CHAN	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - ANALOG SW	77C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - DIGITAL SW	377C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONNECTORS	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
MISC. COM EQP & PWR	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.45
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.30		$ 0.02	$ 5.28		$ 5.60	$ 5.60
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.00	$ 2.04		$ 2.04	$ 2.04
UNDERGROUND (CU) CA.	5C	$ 1.99		$ 0.15	$ 2.91		$ 5.05	$ 5.05
CO EQPT - LOW CAP TERM	257C	$ 3.10		$ 0.00	$ 0.00		$ 3.10	$ 3.10
CO EQPT - LOW CAP CHAN	257C	$ 3.94		$ 0.00	$ 0.00		$ 3.94	$ 3.94
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	$ 0.07		$ 0.01	$ 1.26		$ 1.34	$ 1.34
CONDUIT	4C	$ 0.63		$ 0.05	$ 1.03		$ 1.71	$ 1.71
SPAN SUMMARY		$ 10.54	$ 0.00	$ 0.23	$ 12.52	$ 2.45	$ 25.74	$ 25.74
CIRCUIT DESIGN SUMMARY							$ 25.74	

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C:\123R24\LCATR089\RESULTS1
OUTPUT - WORKSHEET D
SHEET 2 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®
LCAT Rel : 1.0.4
Issued : 7/31/95

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

CIRCUIT DESIGN : 2 CDLC
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
DATE : 22-Jan-97
TIME : 13:54

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	557C					$ 0	$ 0
CO EQPT - HI CAP CHAN	657C					$ 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 — **Bellcore**®
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 1 – RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN.DATE : 22–Jan–97
TIME : 13:54

Technology Type Mix : 0.0000

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	$ 0.02	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.02	$ 0.0000
BUILDING	10C	$ 0.49	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.49	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – LOW CAP TERM	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – LOW CAP CHAN	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – HI CAP TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – HI CAP CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.30	$ 0.00	$ 0.02	$ 5.28	$ 0.00	$ 5.60	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 2.04	$ 0.00	$ 2.04	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 1.99	$ 0.00	$ 0.15	$ 2.91	$ 0.00	$ 5.05	$ 0.0000
CO EQPT – P GAIN TERM	257C	$ 3.10	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 3.10	$ 0.0000
CO EQPT – P GAIN CHAN	257C	$ 3.94	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 3.94	$ 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	$ 0.07	$ 0.00	$ 0.01	$ 1.26	$ 0.00	$ 1.34	$ 0.0000
CONDUIT	4C	$ 0.63	$ 0.00	$ 0.05	$ 1.03	$ 0.00	$ 1.71	$ 0.0000
SPAN SUMMARY		$ 10.54	$ 0.00	$ 0.23	$ 12.52	$ 2.45	$ 25.74	$ 0.00
TECHNOLOGY DESIGN SUMMARY							$ 25.74	

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C:\123R24\LCATR089 RESULTS1
OUTPUT – WORKSHEET D
SHEET 4 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 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 1 – RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22–Jan–97
TIME : 13:54

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
							$ 0	

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OUTPUT - WORKSHEET D
SHEET 5 of 10

LOOP COST ANALYSIS TOOL — **Bellcore**(R)

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 13:54

Circuit Design Mix : 10.0000 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	$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	

C:\123R24\LCATR089\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 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 13:54

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	$ 0.02		$ 0.00	$ 0.00		$ 0.02	$ 0.02
BUILDING	10C	$ 0.64		$ 0.00	$ 0.00		$ 0.64	$ 0.64
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	$ 0.08		$ 0.00	$ 0.00		$ 0.08	$ 0.08
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.45
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.02	$ 5.28		$ 5.30	$ 5.30
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.00	$ 2.04		$ 2.04	$ 2.04
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.15	$ 2.91		$ 3.06	$ 3.06
CO EQPT - LOW CAP TERM	257C	$ 2.38		$ 0.00	$ 0.00		$ 2.38	$ 2.38
CO EQPT - LOW CAP CHAN	257C	$ 3.94		$ 0.00	$ 0.00		$ 3.94	$ 3.94
CO EQPT - HI CAP TERM	857C	$ 0.73		$ 0.00	$ 0.00		$ 0.73	$ 0.73
CO EQPT - HI CAP CHAN	857C	$ 1.23		$ 0.00	$ 0.00		$ 1.23	$ 1.23
CO EQPT - ANALOG SW	77C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - DIGITAL SW	377C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.03		$ 0.00	$ 0.00		$ 0.03	$ 0.03
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.07		$ 0.00	$ 0.00		$ 0.07	$ 0.07
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	$ 0.01		$ 0.01	$ 1.26		$ 1.28	$ 1.28
CONDUIT	4C	$ 0.03		$ 0.05	$ 1.03		$ 1.11	$ 1.11
SPAN SUMMARY		$ 9.17	$ 0.00	$ 0.23	$ 12.52	$ 2.45	$ 24.37	$ 24.37
							$ 24.37	

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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	CIRCUIT DESIGN :	4 FOMUX	STUDY YR :	1996
CITY / AREA:	CINCINNATI	LOOP SPAN DIVISION :	ALL LOOP SPANS	TEST CASE :	1
STATE / PROV :	OHIO	SERVICE CLASS :	BAND 1 - RESIDENCE LIN	RUN DATE :	22-Jan-97
JOB IDENT. :	CINCINNATI	TOTAL LOOP LENGTH :	17226 FEET	TIME :	13:54

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	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
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L O O P   C O S T   A N A L Y S I S   T O O L
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 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 13:54

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	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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LOOP COST ANALYSIS TOOL **Bellcore**(R)

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 13:54

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	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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LOOP COST ANALYSIS TOOL

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PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 1 - RESIDENCE LIN
TOTAL LOOP LENGTH : 17226 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 13:54

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	SUB-	DISTRIBUTION	NETWORK INTERFACE	TOTAL LOOP	TECHNOLOGY WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.02	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.02	$ 0.0217
BUILDING	10C	$ 0.64	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.64	$ 0.6439
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP TERM	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP CHAN	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.08	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.08	$ 0.0801
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.4513
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.02	$ 5.28	$ 0.00	$ 5.30	$ 5.3000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 2.04	$ 0.00	$ 2.04	$ 2.0400
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.15	$ 2.91	$ 0.00	$ 3.06	$ 3.0600
CO EQPT - LOW CAP TERM	257C	$ 2.38	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.38	$ 2.3827
CO EQPT - LOW CAP CHAN	257C	$ 3.94	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 3.94	$ 3.9401
CO EQPT - HI CAP TERM	857C	$ 0.73	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.73	$ 0.7268
CO EQPT - HI CAP CHAN	857C	$ 1.23	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 1.23	$ 1.2325
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.03	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.03	$ 0.0282
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.07	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.07	$ 0.0692
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.01	$ 0.00	$ 0.01	$ 1.26	$ 0.00	$ 1.28	$ 1.2771
CONDUIT	4C	$ 0.03	$ 0.00	$ 0.05	$ 1.03	$ 0.00	$ 1.11	$ 1.1139
SPAN SUMMARY		$ 9.17	$ 0.00	$ 0.23	$ 12.52	$ 2.45	$ 24.37	$ 24.37
							$ 24.37	

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RUN - DIST PLNT

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

LAST UPDATE
22-Jan-97
13:31

LOOP COST ANALYSIS TOOL

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 12001 FEET - INFIN

CURRENT TEST PLAN : CURRENT JOB IDENT: CINCINNATI

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

...your run is finished

PROVIDED TO PUCO

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DIST_PLNT - WORKSHEET A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

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

BASIC INVESTMENT WORKSHEET

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

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

SERVICE CLASS : BAND 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:45

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 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	CABLE COMPONENTS: (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
2346.0	AERIAL	0.590000	1384.1	0.039700	54.95		0.00	0.00	
CONSIDERS:	BURIED	0.160000	375.4	0.065700	24.66		0.00	0.00	
MELDED COPPER	UNDERGRND	0.250000	586.5	0.056900	33.37		0.00	0.00	
CABLE	Check =	1.000000	2346.0						

OUTSIDE PLANT LOADINGS (NOTE 4)

DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:	
AERIAL CA. =	0.0000	AERIAL CA. =	0.0000
BURIED CA =	0.0000	BURIED CA =	0.0000
UNDERGRND =	0.0000	UNDERGRND =	0.0000

OTHER INVESTMENT

	inv / unit lgth:	inv rltn fctr:
POLE LINE FACTOR (PLf) =	0.0000	0.2[illegible]
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 39.72	
UG CONDUIT FACTOR (UCf) =	0.0000	0.5165
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =	$ 49.25	

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)

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

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC,NON-COLLOQ
SERVICE CLASS : BAND 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:45

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	54.95	1		$ 55	0.3500		$ 157
BURIED CABLE (COPPER)	45C	V	DIRECT	24.66	1		$ 25	0.3500		$ 70
UNDERGROUND (CU) CA.	5C	V	DIRECT	33.37	1		$ 33	0.3500		$ 95
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	39.72	1		$ 40	1.0000		$ 40
CONDUIT	4C	F	DIRECT	49.25	1		$ 49	1.0000		$ 49
									$ 0	$ 412
										$ 412
										distinvly

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

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

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C:\123R24\LCATCALC\D:ST
DIST_PLNT - WORKSHEET A
Sheet 3 of 3

LOOP COST ANALYSIS TOOL

Bellcore (R)

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

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 1 - RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:45

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		$ 157	0.4033		$ 63.32		$ 5.28
BURIED CABLE (COPPER)	45C	1.0000		$ 70	0.3467		$ 24.43		$ 2.04
UNDERGROUND (CU) CA.	5C	1.0000		$ 95	0.3663		$ 34.93		$ 2.91
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		$ 40	0.3807		$ 15.12		$ 1.26
CONDUIT	4C	1.0000		$ 49	0.2521		$ 12.48		$ 1.03
			dstshrinv	dstdirinv					
TOTALS			$ 0	$ 412		$ 0.00	$ 150.21	$ 0.00	$ 12.52
				$ 412			$ 150.21		$ 12.52
				distinvsy			distann		distmrc

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT 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 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:45

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	

TIAL
BE GIVEN
PRIOR TO RELEASE TO PUBLIC
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

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT 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 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:45

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION 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					[illegible]		
									$0	$75
										$75

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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DIST_PLNT - WORKSHEET B
Sheet 3 of 3

L O O P   C O S T   A N A L Y S I S   T O O L
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 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:45

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3922		$ 29.42		$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 29.42	$ 0.00	$ 2.45
				$ 75			$ 29.42		$ 2.45
				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.

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

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

Bellcore®
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 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:46

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	

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

C:\123R24\LCATCALC\DIST
DIST_PLNT - WORKSHEET S
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

Bellcore®
LCAT
Release : 1.0.4

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

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

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:46

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT: COST EQUATION [F]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: CIRCUIT QUANTITY [G]	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					[illegible]		
									$0	$75
										$75
										bctinviy

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

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Bellcore® 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 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:46

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3922		$ 29.42		$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 29.42	$ 0.00	$ 2.45
				$ 75			$ 29.42		$ 2.45
				bctinvsy			bctarm		bctmrc

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

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DIST_PLNT - 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 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:46

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND / MIX / AVG. LGTH.						(See Note) TOTAL AVG. WEIGHTED INVESTMENT
		0						
		1.0000						
		17226						
	SEG. LGTH.	2346.0						2346
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	$ 5.28						$ 5.28
BURIED CABLE (COPPER)	45C	$ 2.04						$ 2.04
UNDERGROUND (CU) CA.	5C	$ 2.91						$ 2.91
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	$ 1.26						$ 1.26
CONDUIT	4C	$ 1.03						$ 1.03
SPAN SUMMARY		$ 12.52	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	
AVG. WTD. SPAN SUMMARY		$ 12.52	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	
	NOTE:	$[\mathrm{sum}(\mathrm{INV}_{ACCT}{}^{BAND} * \mathrm{MIX}^{BAND})]$						$ 12.52

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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

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

CIRCUIT SEGMENT : SERVICE ACCESS

SERVICE CLASS:BAND 1 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:46

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		2.45
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
SPAN TOTAL			$ 2.45

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RUN - SUB PRI

LAST UPDATE

22-Jan-97

13:33

Bellcore
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 12001 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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C:\123R24\LCATCALC\CUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 1 - RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR : 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:48

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	0.120000	36.00	0.012100	0.44		0.00	0.00	
	MELDED GAUGE/S/ COPPER CABLE	BURIED	0.000000	0.00	0.016600	0.00		0.00	0.00	
		UNDERGRND	0.880000	264.00	0.010900	2.88		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 =	0.00580
POLE LINE INVESTMENT =	$ 0.18		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 =	$ 2.48		PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
(UTIL UNDGRND INVEST x UCf)			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

LOOP COST ANALYSIS TOOL

Bellcore (R)

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY

LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:46

SERVICE CLASS: BAND 1 - RESIDENCE LINE

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.44	1		$0	0.6000		$1
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	2.86	1		$3	0.6000		$5
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	0.18	1		$0	1.0000		$0
CONDUIT	4C	F	DIRECT	2.48	1		$2	1.0000		$2
									$0	$8
TOTALS										$8

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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_PR\ - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore(R)

PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 1 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:48

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		$ 1	0.4033		$ 0.29		$ 0.02
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000		$ 5	0.3663		$ 1.76		$ 0.15
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		$ 0	0.3807		$ 0.07		$ 0.01
CONDUIT	4C	1.0000		$ 2	0.2521		$ 0.6[illegible]		$ 0.05
SUBTOTALS			$ 0	$ 8		$ 0.00	$ 2.74	$ 0.00	$ 0.23
TOTALS				$ 8			$ 2.74		$ 0.23
				culpinvsy			culpac		culpmrc

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

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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
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:48

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

FACILITY SEGMENT : SUB-PRIMARY PLANT
SERVICE CLASS:BAND 1 - RESIDENCE LINE

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH	0						(SEE NOTE) TOTAL AVG. WEIGHTED
		MIX	1.0000						
		LGTH	17226						
		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		$ 0.02						$ 0.02
BURIED CABLE (COPPER)	45C								$ 0.00
UNDERGROUND (CU) CA.	5C		$ 0.15						$ 0.15
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	$ 0.01						$ 0.01
CONDUIT	4C	0.0	$ 0.05						$ 0.05
SPAN SUMMARY			$ 0.23	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.23
AVG. WTD. SPAN SUMMARY			$ 0.23	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	

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

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

LAST UPDATE
22-Jan-97
13:35

Bellcore
LCAT
Release: 1.0.4
Issued: 8/31/95

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 12001 FEET - INFINITY INTRASTATE

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:	1 C
SERVICE CLASS:	BAND 1 – RESIDENCE LINE
LCAT Release:	1.0.4
Issue Date:	8/31/95
STUDY YR:	1996
TEST CASE:	1
DATE:	22–Jan–97
TIME:	01:50 PM

17226 cur_lplgth f = 0.125 pgfactor.
300 cursfdr–lgth

CABLE COMPONENTS (NOTE 5)

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 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]
14580	AERIAL	0.120000	218.70	0.024200	$ 5.29		$ 0.00		
CO TO RT LINK ON	BURIED	0.000000	0.00	0.033200	$ 0.00		$ 0.00		
COPPER CABLE DLC 24.00 GA. FACILITIES	UNDERGRND	0.880000	1603.80	0.021800	$ 34.96		$ 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	$ 4.17	
OTHER INVESTMENT		inv / unit lgth	inv rltn fctr:
POLE LINE FACTOR (PLf) =		0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		$ 2.23	
UGD CONDUIT FACTOR (UCf) =		0.0000	0.5166
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) =		$ 30.10	

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) =	$ 0.00
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 =	$ 0.85
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 =	$ 20.04
BLDG INVST. ((CO CONN+MCEP) x BLDGf) =	$ 0.00
LOOP TOPOLOGY	STAR
AVERAGE NUMBER OF HUBS	NA
ADDITIONAL LENGTH OF RING OSP REQUIRED	NA
MIX OF CENT. OFC. ANALOG INTFC	0.0000
MIX OF CENT. OFC. DIGITAL INTFC	1.0000
MIX OF UNIVERSAL DLC INTFC	0.0000
MIX OF INTEGRATED DIGITAL INTFC	1.0000

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.

NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON 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.

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

LOOP COST ANALYSIS TOOL

Bellcore®

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 : C
SERVICE CLASS : BAND 1 – RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 22–Jan–97
TIME : 01:50 PM

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]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION: DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION: DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.85	1	$ 1		1.0000	$ 1	
BUILDING	10C	F	SHARED	20.17	1	$ 20		1.0000	$ 20	
BLDG ENTRANCE CABLE	12C	---	---					1.0000		
INTRABLDG CABLE	52C	---	---					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	5.29	1		$ 5	0.6000		$ 9
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	39.13	1		$ 39	0.6000		$ 65
CO EQPT – P GAIN TERM	257C	F	DIRECT	66.99	1		$ 67	0.7000		$ 96
CO EQPT – P GAIN CHAN	257C	V	DIRECT	85.28	1		$ 85	0.7000		$ 122
CO EQPT – FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT – FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT – ESS – ANALOG	77C	V	DIRECT	0.00				1.0000		
CO EQPT – ESS – DIGITAL	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	2.23	1		$ 2	1.0000		$ 2
CONDUIT	4C	F	DIRECT	30.10	1		$ 30	1.0000		$ 30
TOTALS									$ 21	$ 324
										$ 345
										FEED1IY

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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

C:\123R24\LCATCALC\CUPRGN
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 : C
SERVICE CLASS : BAND 1 – RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 22–Jan–97
TIME : 01:50 PM

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		0.2322	$ 0.20		$ 0.02	
BUILDING	10C	1.0000	$ 20		0.2937	$ 5.92		$ 0.49	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		$ 9	0.4033		$ 3.56		$ 0.30
BURIED CABLE (COPPER)	45C	1.0000			0.3457				
UNDERGROUND (CU) CA.	5C	1.0000		$ 65	0.3683		$ 23.89		$ 1.99
CO EQPT – P GAIN TERM	257C	1.0000		$ 96	0.3881		$ 37.14		$ 3.10
CO EQPT – P GAIN CHAN	257C	1.0000		$ 122	0.3881		$ 47.28		$ 3.94
CO EQPT – FO MUX TERM	857C	1.0000			0.3881				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT – ESS – ANALOG	77C	1.0000			0.0000				
CO EQPT – ESS – DIGITAL	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		$ 2	0.3807		$ 0.85		$ 0.07
CONDUIT	4C	1.0000		$ 30	0.2521		$ 7.59		$ 0.63
			======	======		======	======	======	======
TOTALS			$ 21	$ 324		$ 6.12	$ 120.31	$ 0.51	$ 10.03
				======			======		======
				$ 345			$ 126.43		$ 10.54
				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

Bellcore

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 1 - RESIDENCE LINE

STUDY YR : 1996
TEST CASE : 1
DATE : 22-Jan-97
TIME : 01:50 PM

ogic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT (SEE NOTE)

PLANT ITEM	PLANT ACCT CODE	BAND 0						TOTAL AVG. WEIGHTED INVESTMENT
	MIX	1.0000						
	AVG LGTH	17226						
	SEG.LGTH.	14580						14580
SHARED RESOURCES								-----
LAND	20C	$ 0.02						$ 0.02
BUILDING	10C	$ 0.49						$ 0.49
BLDG ENTRANCE CABLE	12C							$ 0.00
INTRABLDG CABLE	52C							$ 0.00
AERIAL CABLE (COPPER)	22C							$ 0.00
BURIED CABLE (COPPER)	45C							$ 0.00
UNDERGROUND (CU) CA.	5C							$ 0.00
CO EQPT - P GAIN TERM	257C							$ 0.00
CO EQPT - P GAIN CHAN	257C							$ 0.00
CO EQPT - FO MUX TERM	857C							$ 0.00
CO EQPT - FO MUX CHAN	857C							$ 0.00
CO EQPT - ANALOG SW	77C							$ 0.00
CO EQPT - DIGITAL SW	377C							$ 0.00
AERIAL CABLE (FIBER)	822C							$ 0.00
BURIED CABLE (FIBER)	845C							$ 0.00
UNDERGROUND (FO) CA.	85C							$ 0.00
CONNECTORS	57C							$ 0.00
MISC. COM EQP & PWR	57C							$ 0.00
POLE LINE	1C							$ 0.00
CONDUIT	4C							$ 0.00
DIRECT RESOURCES								
LAND	20C							$ 0.00
BUILDING	10C							$ 0.00
BLDG ENTRANCE CABLE	12C							$ 0.00
INTRABLDG CABLE	52C							$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.30						$ 0.30
BURIED CABLE (COPPER)	45C							$ 0.00
UNDERGROUND (CU) CA.	5C	$ 1.99						$ 1.99
CO EQPT - P GAIN TERM	257C	$ 3.10						$ 3.10
CO EQPT - P GAIN CHAN	257C	$ 3.94						$ 3.94
CO EQPT - FO MUX TERM	857C							$ 0.00
CO EQPT - FO MUX CHAN	857C							$ 0.00
CO EQPT - ANALOG SW	77C							$ 0.00
CO EQPT - DIGITAL SW	377C							$ 0.00
AERIAL CABLE (FIBER)	822C							$ 0.00
BURIED CABLE (FIBER)	845C							$ 0.00
UNDERGROUND (FO) CA.	85C							$ 0.00
CONNECTORS	57C							$ 0.00
MISC. COM EQP & PWR	57C							$ 0.00
POLE LINE	1C	$ 0.07						$ 0.07
CONDUIT	4C	$ 0.63						$ 0.63
SPAN SUMMARY		10.54	0.00	0.00	0.00	0.00	0.00	10.54
AVG. WTD. SPAN SUMMARY		10.54	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
22-Jan-97
13:37

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 1 (OHIO) RESIDENCE LINE STUDY 12001 FEET – INFINITY IN

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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PROVIDED TO PUCO

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FO_MUX - WORKSHEET 3
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

BASIC INVESTMENT WORKSHEET

FOR PRIMARY FEEDER PLANT

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

FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 1 - RESIDI SERVICE LEVEL: NARBAND

LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 22-Jan-97
TIME : 13:52

from stdr_tbl : 300 cur_sfdrlgth; 7553 cur_prilgth
from bw_mix : f = 1979.04 wtdeqvmn

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 FOOT	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]
	14580	AERIAL	0.180000	1.33	0.282300	0.37		0.00		
CO TO HUB LINK										
ON		BURIED	0.000000	0.00	0.269400	0.00		0.00		
FIBER OPTIC										
FACILITIES		UNDERGRND	0.820000	6.04	0.168600	1.02		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 rltn fctr :
POLE LINE FACTOR (PLf) =	fplf_	0.0000	0.1965
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =		$ 0.22	
UNDERGROUND CONDUIT FACTOR (PLf) =	fucf_	0.0000	0.5232
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =		$ 1.61	

EQUIPMENT INVESTMENT LOADINGS

INVST. PER CHAN. FOR CA TERM (CA CONN)=	$ 0.00
MISC. COM. EQPT. & POWER FACTOR (DLCrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) =	0.1127
MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) =	$ 2.48
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. =	$ 0.14
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. =	$ 3.22
BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem) =	$ 23.09

LOOP TOPOLOGY

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

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON 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.

C:\123R24\LCATCALC\FOPRGN.WK1

LOOP COST ANALYSIS TOOL

Bellcore

FO_MUX – WORKSHEET 3

ACCOUNT INVESTMENT WORKSHEET

Sheet 2 of 3

FOR PRIMARY FEEDER PLANT

COMPANY: CINCINNATI BELL TEL
FACILITY TYPE: FIBER IN THE LOOP
CITY / AREA: CINCINNATI
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.
STATE / PROV: OHIO
SERVICE CLASS: BAND 1 – RESIDSERVICE LEVEL: NARBAND

LCAT Rel: 1.0.4
ISSUE DATE: 7/31/95
STUDY YR: 1996
TEST CASE: 1
LAST RUN: 22–Jan–97
TIME: 13:52

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]
	cmstart							utilstart		
LAND	20C	F	SHARED	1.12	1	$ 1		1.0000	$ 1	
BUILDING	10C	F	SHARED	26.31	1	$ 26		1.0000	$ 26	
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	51.57	1		$ 52	0.7000		$ 74
CO EQPT – LOW CAP CHAN	257C	V	DIRECT	85.28	1		$ 85	0.7000		$ 122
CO EQPT – HI CAP TERM	857C	F	DIRECT	22.47	1		$ 22	1.0000		$ 22
CO EQPT – HI CAP CHAN	857C	F	DIRECT	38.11	1		$ 38	1.0000		$ 38
CO EQPT – ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT – DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT	0.37	1		$ 0	0.3300		$ 1
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT	1.02	1		$ 1	0.3300		$ 3
CONNECTORS	57C	V	DIRECT	0.00				1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	2.48	1	$ 2		1.0000	$ 2	
POLE LINE	1C	F	DIRECT	0.22	1		$ 0	1.0000		$ 0
CONDUIT	4C	F	DIRECT	1.61	1		$ 2	1.0000		$ 2
TOTALS									$ 30	$ 262
										$ 292
										feed3iy

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

C:\123R24\LCATCALC\FOFEGN.WK1	LOOP COST ANALYSIS TOOL	Bellcore®
FO_MUX – WORKSHEET 3	ANNUAL COSTS WORKSHEET	LCAT Rel : 1.0.4
Sheet 3 of 3	FOR PRIMARY FEEDER PLANT	ISSUE DATE : 7/31/95
COMPANY: CINCINNATI BELL TEL	FACILITY TYPE : FIBER IN THE LOOP	STUDY YR : 1996
CITY / AREA : CINCINNATI	CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.	TEST CASE : 1
STATE / PROV : OHIO	SERVICE CLASS : BAND 1 – RES SERVICE LEVEL: NARBAND	LAST RUN : 22–Jan–97
		TIME : 13:52

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	$ 1		0.2322	$ 0.26		$ 0.02	
BUILDING	10C	1.0000	$ 26		0.2937	$ 7.73		$ 0.64	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT – LOW CAP TERM	257C	1.0000		$ 74	0.3881		$ 28.59		$ 2.38
CO EQPT – LOW CAP CHAN	257C	1.0000		$ 122	0.3881		$ 47.28		$ 3.94
CO EQPT – HI CAP TERM	857C	1.0000		$ 22	0.3881		$ 8.72		$ 0.73
CO EQPT – HI CAP CHAN	857C	1.0000		$ 38	0.3881		$ 14.79		$ 1.23
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000		$ 1	0.2983		$ 0.34		$ 0.03
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000		$ 3	0.2689		$ 0.83		$ 0.07
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000	$ 2		0.3881	$ 0.96		$ 0.08	
POLE LINE	1C	1.0000		$ 0	0.3807		$ 0.08		$ 0.01
CONDUIT	4C	1.0000		$ 2	0.2521		$ 0.41		$ 0.03
			======	======		======	======	======	======
TOTALS			$ 30	$ 262		$ 8.95	$ 101.05	$ 0.75	$ 8.42
				======			======		======
				$ 292			$ 109.99		$ 9.17
				feed3sy			feed3apr		feed3mrc

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

C:\123R24\LCATCALC\FOPRGN.WK1 — **LOOP COST ANALYSIS TOOL** — Bellcore®
FO_MUX – REPORT 14.3 — PROSPECTIVE INVESTMENT WORKSHEET SUMMARY — LCAT Rel : 1.0.4
Sheet 1 of 1 — FOR PRIMARY FEEDER PLANT — ISSUE DATE : 7/31/95

COMPANY: CINCINNATI BELL TEL. FACILITY TYPE : FIBER IN THE LOOP STUDY YR : 1996
CITY / AREA : CINCINNATI CIRCUIT DESIGN : 3 FOMUX TO HUB / REM. TEST CASE : 1
STATE / PROV : OHIO SERVICE CLASS : BAND 1 – RESIDI SERVICE LEVEL: NARBAND LAST RUN : 22–Jan–97
TIME : 13:52

data–14a3 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT (SEE NOTE)

PLANT ITEM	PLANT ACCT CODE	BAND 0						TOTAL AVG WEIGHTED INVESTMENT
	MIX	1.0000						
	AVG. LGTH	17226						
	SEG.LGTH.	14580						14580
SHARED RESOURCES								
LAND	20C	$ 0.02						$ 0.02
BUILDING	10C	$ 0.64						$ 0.64
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	$ 0.08						$ 0.08
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	$ 2.38						$ 2.38
CO EQPT – LOW CAP CHAN	257C	$ 3.94						$ 3.94
CO EQPT – HI CAP TERM	857C	$ 0.73						$ 0.73
CO EQPT – HI CAP CHAN	857C	$ 1.23						$ 1.23
CO EQPT – ANALOG SW	77C							$ 0.00
CO EQPT – DIGITAL SW	377C							$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.03						$ 0.03
BURIED CABLE (FIBER)	845C							$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.07						$ 0.07
CONNECTORS	57C							$ 0.00
MISC. COM EQP & PWR	57C							$ 0.00
POLE LINE	1C	$ 0.01						$ 0.01
CONDUIT	4C	$ 0.03						$ 0.03
SPAN SUMMARY		9.17	0.00	0.00	0.00	0.00	0.00	$ 9.17
AVG. WTD. SPAN SUMMARY		9.17	0.00	0.00	0.00	0.00	0.00	

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

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LOOP COST ANALYSIS TOOL

Bellcore(R)

TABLE – COST_METH
SHEET 1 of 2

LCAT Rel : 1.0.4
Issued : 07/31/95

COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENT

STUDY YR: 1996
TEST CASE : 1
COMPANY: CINCINNATI BELL TEL.
STATE: OHIO
SWITCHED SERVICES
LAST UPDATE : 12-Jul-96
TIME : 14:39

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

C:\123R24\LCATR071\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN

Bellcore
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(R)

TABLE - COST_METH
SHEET 2 of 2

LCAT Rel : 1.0.4
Issued : 07/31/95

COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

STUDY YR: 1996
TEST CASE : 1
LAST UPDATE : 12-Jul-96
TIME : 14:39

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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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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: 04-Dec-96
LAST UPDATE: 17-Oct-96 01:19 PM

STUDY NAME: 1996 BAND 1 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 12001 FEET - INFINITY INTRAST

COMMENTS

SERVICE CLASS	BAND 1 - 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	VH 0, HI 100, MED 0, LO 0	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 ®
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 services/ under study or enter an 'X' to denote inclusion.
CELL DENSITY	Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR071\CRITERIA — *LOOP COST ANALYSIS TOOL* — Bellcore(R)

INPUT – STUDY SETUP	GENERAL STUDY REQUIREMENTS	LCAT Rel. 1.0.4
SHEET 2 / 2	STUDY QUESTIONS	ISSUED: 3/31/95
	FOR	STUDY YEAR: 1996
COMPANY: CINCINNATI BELL TEL.	INVESTMENT YEAR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI	LOOP STUDY YEAR: 1996	LAST UPDATE: 17-Oct-96
STATE / PROV: OHIO	SERVICE CLASS: BAND 1 – RESIDENCE LINE	TIME: 01:19 PM

CONCERNING –	SELECTED QUESTIONS	VALID RESPONSE SET		
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.C. 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	12000	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		
	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

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 <u>Switched Services</u> or **Using 7.** for <u>Special (Private Line) Services</u>.

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 <u>Distance Sensitive</u> Study

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

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

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

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

PRESS <Enter> KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR071\DESIGN **LOOP COST ANALYSIS TOOL** **Bellcore**

INPUT - LOOP_DESIGN
Sheet 1 / 1

CIRCUIT DESIGN REQUIREMENTS
CHARACTERISTICS
FOR

LCAT Rel :1.0.4
Issued :07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 12-Jul-96
TIME : 14:41

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 1 - RESIDENCE LINE

CIRCUIT DESIGN

Study Parameters
Study Basis: NETWORK STUDY Service Level: NARBAND Loop Topology: STAR

CIRCUIT LAYOUT REQUIREMENTS -
FOR FIBER HUBS & FEEDER EXTENSIONS
(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES :
Proportion of Fiber Circuits
WITHOUT Fiber Hubs 0.0000

FACILITY TECHNOLOGIES:
Of the Hubbed Circuits -
Proportion of links on Fiber Tech. 0.0000

Proportion of links on CDLC / MAR 0.0000

FOR SERVICE ACCESS NETWORK
(REMOTE TERMINAL TO CUSTOMER LINK)

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

CIRCUIT DESIGN REQUIREMENTS -
SELECTION & DISTRIBUTION:

Note

FOR FIBER DLC DESIGNS:

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

FOR COPPER DLC DESIGNS:

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

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

C:\123R24\LCATR071\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.

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR071\FACILITY	*LOOP COST ANALYSIS TOOL*	**Bellcore**
TABLE – SPAN_INV SHEET 1 / 4	LOOP FACILITY INPUT FIBER CABLE DATA FOR	LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO	INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 – RESIDENCE LINE	TEST CASE : 1 LAST UPDATE : 12–Jul–96 TIME : 14:43

FIBER CABLE INVESTMENT AND CHARACTERISTICS

CABLE TYPE MIX (DISTRIBUTION TO CODE) :

Proportion of FIBER cable installations that are ....

	FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	
AERIAL	0.1800	0.0000	factors
BURIED	0.0000	0.0000	factors
UNDGRD	0.8200	0.0000	factors

INVESTMENT PER CABLE PAIR FOOT
BY CABLE TYPE :

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

If not, Update Unit Averages as Follows :

PRIMARY SEGMENT

Average Unit Investment for FIBER cable, Installed as ....

AERIAL	$ 0.2823	per fiber pair Foot
BURIED	$ 0.2694	per fiber pair Foot
UNDGRD	$ 0.1686	per fiber pair Foot

:e to Fiber Hub)

FEEDER – EXTENSION SEGMENT AND DISTRIBUTION SEGMENT

Average Unit Investment for FIBER cable, Installed as ....

	(Fiber Hub to Remote Terminal)	(Remote Terminal to Service Point)	
AERIAL	$ 0.2823	$ 0.0000	per fiber pair Foot
BURIED	$ 0.2694	$ 0.0000	per fiber pair Foot
UNDGRD	$ 0.1686	$ 0.0000	per fiber pair Foot

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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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 12-Jul-96
TIME : 14:43

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - RESIDENCE LINE

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	$	$	$

NO ... PRIOR ... PROVIDED TO

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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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C:\123R24\LCATR071\FACILITY **LOOP COST ANALYSIS TOOL** Bellcore(R)

TABLE - SPAN_INV
SHEET 2 / 4

LOOP FACILITY INPUT
COPPER CABLE DATA
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 12-Jul-96
TIME : 14:43

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

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

Cable Type Mix, By Gauge :

The Proportion of Copper Cable that is ....

GUAGE	TYPE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	0.1200	0.5900
	BURIED	0.0000	0.1600
	UNDGRND	0.8800	0.2500
24 GA.	AERIAL	0.1200	0.5900
	BURIED	0.0000	0.1600
	UNDGRND	0.8800	0.2500
22 GA.	AERIAL	0.0000	0.0000
	BURIED	0.0000	0.0000
	UNDGRND	0.0000	0.0000

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

Update Cable Sheath Prices [Required with INDIVIDUAL Mode]
on the FULL SET Input SHEET ? (Y / N) N
If not, Update

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

GUAGE	TYPE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	$ 0.0121	$ 0.0397
	BURIED	$ 0.0166	$ 0.0657
	UNDGRND	$ 0.0109	$ 0.0569
24 GA.	AERIAL	$ 0.0121	$ 0.0397
	BURIED	$ 0.0166	$ 0.0657
	UNDGRND	$ 0.0109	$ 0.0569
22 GA.	AERIAL	$ 0.0000	$ 0.0000
	BURIED	$ 0.0000	$ 0.0000
	UNDGRND	$ 0.0000	$ 0.0000

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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L O O P C O S T A N A L Y S I S T O O L — 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 1 – 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: 12-Jul-96
TIME: 14:43

COPPER CABLE INVESTMENT REFERENCE TABLE

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

Cable Sheath Sizes		Capacity	Gauge : => INDEX	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	$									
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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SPAN INV - WORKSHEET
Sheet 1 / 3

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

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

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

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper..dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.590000	$ 0.039700	0.1500	0.088500	$ 0.005955
BURIED @ 26 GA.	0.160000	$ 0.065700	0.1500	0.024000	$ 0.009855
UNDGRND @ 26 GA.	0.250000	$ 0.056900	0.1500	0.037500	$ 0.008535
AERIAL @ 24 GA.	0.590000	$ 0.039700	0.8500	0.501500	$ 0.033745
BURIED @ 24 GA.	0.160000	$ 0.065700	0.8500	0.136000	$ 0.055845
UNDGRND @ 24 GA.	0.250000	$ 0.056900	0.8500	0.212500	$ 0.048365
AERIAL @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
BURIED @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
UNDGRND @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
			Check =	1.00	

DATA DESC.	--- TABLE 2 --- CABLE TYPE MIX RANGE NAME	MELDED GAUGES	--- TABLE 4 --- PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	--- TABLE 6 --- PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
CHARACTERISTICS FOR :		[F=sum(D_TYPE)]		[G=sum(E_TYPE)]		[H=F_TYPE/sum(F_TYPE)]
AERIAL		0.590000		$ 0.039700		$ 0.786667
BURIED		0.160000		$ 0.065700		$ 0.213333
UNDERGRND		0.250000		$ 0.056900		-
	Check =	1.000000			Check =	1.000000

FOOTNOTES

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SPAN INV - WORKSHEET
Sheet 2 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE: SUBFEEDER SEGMENT

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

SERVICE CLASS: BAND 1 - RESIDENCE LINE

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

MELDED CABLE INVESTMENT PER PAIR FOOT

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (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.	0.120000	$ 0.012100	0.1500	0.018000	$ 0.001815
BURIED @ 26 GA.	0.000000	$ 0.016600	0.1500	0.000000	$ 0.002490
UNDGRND @ 26 GA.	0.880000	$ 0.010900	0.1500	0.132000	$ 0.001635
AERIAL @ 24 GA.	0.120000	$ 0.012100	0.8500	0.102000	$ 0.010285
BURIED @ 24 GA.	0.000000	$ 0.016600	0.8500	0.000000	$ 0.014110
UNDGRND @ 24 GA.	0.880000	$ 0.010900	0.8500	0.748000	$ 0.009265
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	

DATA DESC.	--- TABLE 2 --- CABLE TYPE MIX RANGE NAME	MELDED GAUGES	--- TABLE 4 --- PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	--- TABLE 6 --- PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
CHARACTERISTICS FOR :		[F=sum(D TYPE)]		[G=sum(E TYPE)]		[H=F TYPE / sum(F TYPE)]
AERIAL		0.120000		$ 0.012100		$ 1.000000
BURIED		0.000000		$ 0.016600		$ 0.000000
UNDERGRND		0.880000		$ 0.010900		
	Check =	1.000000			Check =	1.000000

FOOTNOTES

C:\123R24\LCATR071\FACILITY **LOOP COST ANALYSIS TOOL** Bellcore®

TABLE - SPAN_INV SHEET 3 / 4	LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA FOR	LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO	INVESTMENT YEAR : 1996 LOOP STUDY YEAR : 1996 SERVICE CLASS : BAND 1 - RESIDENCE LINE	TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 14:43

COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS

FOR DLC SYSTEMS ON COPPER LOOPS

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

Pair Gain Factor :

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

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

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

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

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

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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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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 1 - RESIDENCE LINE

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

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

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

ADJUSTED PAIR / FOOT INVESTMENT DESCRIPTION	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PFIccg) [D]	REPEATER BY GAUGE (RPTR gcG) [E=C]	WORKING CHANNEL INVESTMENT / FOOT (ADLCPFIcgg) [F=D+E]	- TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPFIc)
AERIAL @ 26 GA.	$ 0.024200	$ 0.000000	$ 0.024200	$ 0.024200
BURIED @ 26 GA.	$ 0.033200	$ 0.000000	$ 0.033200	$ 0.033200
UNDGRND @ 26 GA.	$ 0.021800	$ 0.000000	$ 0.021800	$ 0.021800
AERIAL @ 24 GA.	$ 0.024200	$ 0.000000	$ 0.024200	
BURIED @ 24 GA.	$ 0.033200	$ 0.000000	$ 0.033200	
UNDGRND @ 24 GA.	$ 0.021800	$ 0.000000	$ 0.021800	
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

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 14:43

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - RESIDENCE LINE

SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS

AVERAGE UNIT MIX : **AVERAGE UNIT INVESTMENT :**

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

Proportion of Loops that use......			Per Unit Installation......		
	Aerial	0.00		Aerial Termination	0
	Buried	0.00		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..			Per Unit Installation......		
	Aerial Wire Drops	0.0000		Aerial Wire Drops	$ 0.00
	Buried Wire Drops	0.0000		Buried Wire Drops	$ 0.00
	Bldg Entrance Cable	1.0000		Bldg Entrance Cable	$ 75.00
	Aerial Coax/Wire Drops	0.0000		Aerial Coax/Wire Drops	$ 0.00

The Average Intrabuilding Cable Installation -

Proportion of Installations with Intrabuilding Cable 0.0000 Per Instln for a Intrabuilding Network Cable Pair $ 0.00

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SPAN_INV
/4

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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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C:\123R24\LCATR089\FACTORS **LOOP COST ANALYSIS TOOL** **Bellcore**

TABLE – FACTORS
SHEET 1 / 1

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

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

SERVICE CLASS:BAND 1 – RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 17–Jan–97
TIME : 15:22

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

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TABLE - EQUIP_INV	DATA REFERENCE TABLE	LCAT Rel : 1.0.4
Sheet 1 of 1	EQUIPMENT & OTHER INVESTMENTS	Issued : 07/31/95
	FOR	STUDY YR : 1996
COMPANY: CINCINNATI BELL TEL	INVESTMENT YEAR: 1996	TEST CASE : 1
CITY / AREA : CINCINNATI	SERVICE LEVEL: NARBAND	LAST UPDATE: 12-Jul-96
STATE / PROV : OHIO	SERVICE CLASS: BAND 1 - RESIDENCE LINE	14:44

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

	CENTRAL OFFICE			REMOTE LOCATION	
	LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL
AIR DRYERS INVESTMENT:					
For an AERIAL Installed Cable Pair			$ 0.00		
For a BURIED Installed Cable Pair			$ 0.00		
For an UNDERGROUND Installed Cable Pair			$ 0.00		
CENTRAL OFFICE TERMINATION INVESTMENT :					
For each cable pair associated with twisted pair copper cable			$ 0.00		
For each per cable pair associated with digital loop carrier technolog)			$ 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	$ 16.49	$ 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					$ 8.33

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

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TABLE - EQUIP_INV

HELP INFORMATION

LCAT Rel : 1.0.4
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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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TABLE - ADDNL_INV	INVESTMENT RELATED FACTOR TABLES	LCAT Rel : 1.0.4
Sheet 1 of 2	ADJUSTMENT AND LOADING FACTORS	Issued : 3/31/95
	FOR	STUDY YR : 1996
COMPANY: CINCINNATI BELL TEL	INVESTMENT YEAR: 1996	TEST CASE : 1
CITY / AREA: CINCINNATI	LOOP STUDY YEAR: 1996	LAST UPDATE : 12-Jul-96
STATE: OHIO	SERVICE CLASS: BAND 1 - RESIDENCE LIN	TIME : 14:45

PLANT UTILIZATION FACTORS:

Land	1.0000	*ALL* Non-Traffic Sensitive Equipment	1.0000
Building	1.0000		
		ALL Digital Loop Carrier Equip., or	0.7000
ALL Copper Cables, or		CO DLC Channel Unit	0.7000
Copper Feeder Cable	0.6000	REM DLC Channel Unit	0.7000
Copper Distribution Cable	0.3500	CO DLC Multiplex System	0.7000
Copper Entrance Cable	1.0000	REM DLC Multiplex System	0.7000
Copper Building Cable	0.3500	CO Digital Signal Crossconnect Bay	0.7000
Copper Building Terminal	0.3500	REM Digital Signal Crossconnect Bay	0.7000
ALL Fiber Cables, or		*ALL* Fiber Optic Multiplex Equip., or	1.0000
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit	1.0000
Fiber Distribution Cable		REM Fiber Optic Channel Unit	1.0000
Fiber Entrance Cable		CO Fiber Optic Multiplex System	1.0000
Fiber Building Cable		REM Fiber Optic Multiplex System	1.0000
Fiber Building Terminal		CO Lightguide Terminating Equipment	1.0000
		REM Lightguide Terminating Equipment	1.0000
Poles	1.0000	Remote Housing: CEV	1.0000
Conduit	1.0000	PC Hut	1.0000
		Comm. Svc Cab.	1.0000

TABLE – ADDNL_INV
Sheet 1 of 2

HELP SCREEN

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LCAT Rel : 1.0.4
Issued : 3/31/95

NOTE :

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

2. THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES). THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY. ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR071\LOADING **LOOP COST ANALYSIS TOOL** Bellcore®

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 1 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 3/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 14:45

SEGMENT ....

POLE LOADINGS:

	DISTRIBUTION ❷	FEEDER use DEFAULT
Copper Cable Pole Investment Factor	0.2530	0.2530
Copper Cable Pole Unit Investment		
Fiber Cable Pole Investment Factor	0.1965	0.1965
Fiber Cable Pole Unit Investment		

CONDUIT LOADINGS:

	DISTRIBUTION	FEEDER
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: ❶ CENT. OFC. ❷ REMOTE SITE

LAND LOADING FACTORS:

	CENT. OFC.	REMOTE SITE
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:

	CENT. OFC.	REMOTE SITE
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:

	CENT. OFC.	REMOTE SITE
Other or ALL ❶	0.1127	0.1127
Digital Loop Carrier	0.1127	0.1127
Fiber Optic Mux	0.1127	0.1127

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

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR071\SPAN **LOOP COST ANALYSIS TOOL** Bellcore ®

INPUT - PLANT_CHAR.
Sheet 1 / 5

LOOP FACILITY INPUT
LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS
FOR

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 16-Oct-96
TIME : 08:23

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 1 - RESIDENCE LINE

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

LOOP TOPOLOGY

	ACTION SEGMENT	
Loop FEEDER Network Configuration Is (S)tar Or (R)ing	PRIMARY	STAR
Average Number Of Hubs In Each Ring	PRIMARY	NA
Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us	DISTRIBUTION	STAR

SPAN LENGTHS

1	Average Distance From the Central Office to the Service Access Point	TOTAL LOOP	17226.0
2	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION	2346.0
3	Average Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY	300.0
4	Average Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY	14580.0
5	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	17226.0

DISTRIBUTION OF COST BANDS IN THE NETWORK

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

1.0000 Hint

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

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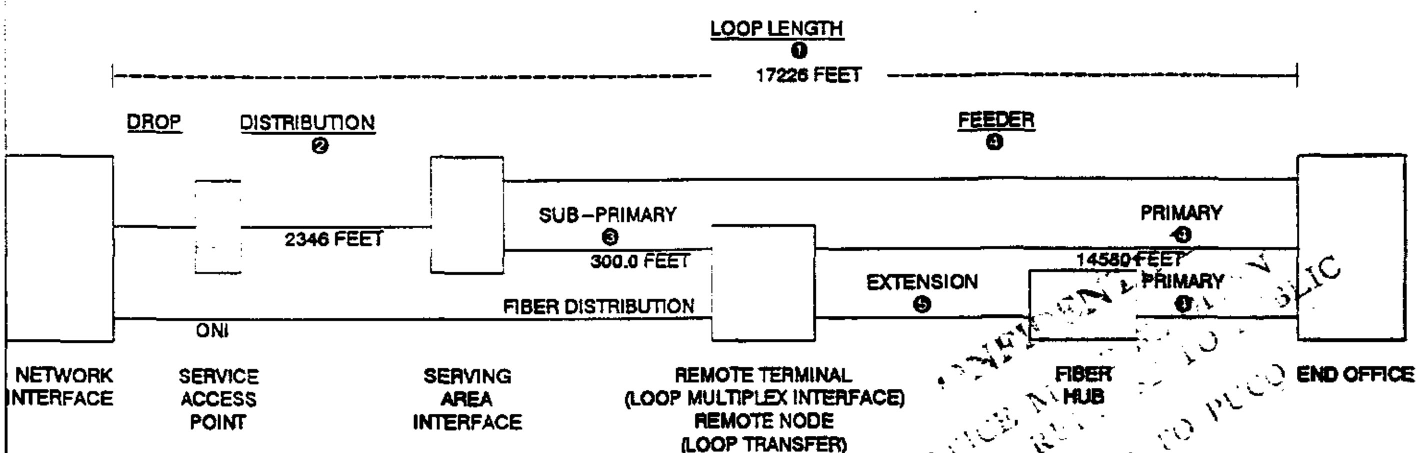
INPUT – PLANT_CHAR.
Sheet 1 / 1

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 1 – RESIDENCE LINE

LCAT Rel :1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 16-Oct-96
TIME : 08:23

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



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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 coct 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

C:\123R24\LCATR071\SPAN

LOOP COST ANALYSIS TOOL **Bellcore®**

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*****

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

C:\123R24\LCATR071\SPAN — LOOP COST ANALYSIS TOOL — Bellcore

INPUT - PLANT_C-AR.
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 1 - RESIDENCE LINE		LAST UPDATE : 16-Oct-96
			TIME : 08:23

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 :		EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT :	
AERIAL FIBER SUBTOTAL	0	AERIAL FIBER SUBTOTAL	0.0
BURIED FIBER SUBTOTAL	0	BURIED FIBER SUBTOTAL	0.0
UNDGRD FIBER SUBTOTAL	0	UNDGRD FIBER SUBTOTAL	0.0
FIBER SUBTOTAL	0	FIBER SUBTOTAL	0.0

C:\123R24\LCATR071\SPAN **LOOP COST ANALYSIS TOOL** **Bellcore®**

PLANT CHAR - WORKSHEET 2B
Sheet 2b / 5

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

LCAT Rel : 1.0.4
Issued : 07/31/95

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 16-Oct-96
TIME : 08:23

SERVICE CLASS: BAND 1 - 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 INV FACILITY 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

total total total

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L O O P C O S T A N A L Y S I S T O O L 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: 16-Oct-96
TIME: 08:23

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 1 – 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

LCAT Rel :1.0.4
Issued : 07/31/95

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

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

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 16-Oct-96
TIME: 08:23

SERVICE CLASS:BAND 1 - 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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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: 16-Oct-96
TIME: 08:23

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 1 - 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

C:\123R24\LCATR071\SPAN

LOOP COST ANALYSIS TOOL Bellcore

PLANT CHAR - WORKSHEET 4B
Sheet 4b / 5

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

LCAT Rel :1.0.4
Issued : 07/31/95

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 16-Oct-96
TIME: 08:23

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

SERVICE CLASS:BAND 1 - 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	dstucfi
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00			
BURIED CABLE SUBTOTAL				0.00			0.00			0.00		
UNDGRND CABLE SUBTOTAL					0.00			0.00			0.00	

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C:\123R24\LCATR071\SPAN **LOOP COST ANALYSIS TOOL** Bellcore®

INPUT - PLANT_CHAR.
Sheet 5 / 5

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

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 16-Oct-96
TIME: 08:23

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - 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 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 : 16-Oct-96
TIME : 08:23

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	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			PT40	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							

PLANT_CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET
FOR
INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 1 - RESIDENCE
WORKSHEET F

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR.: 1996
TEST CASE: 1
LAST UPDATE : 16-Oct-96
TIME : 08:23

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

[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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C:\123R24\LCATR071\SPAN **LOOP COST ANALYSIS TOOL** **Bellcore**®

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 : 16–Oct–96
TIME : 08:23

WORKSHEET SA

Sub Feeder Allocation Table

OFFSET

0	1	2	3	4	5	6	7	8	9	10
Sub Feeder Allocation Table			seglgth alloc							
cur_lplgth	17226					COLOCATED RT AND CP, where				
dcldepl =	12000	NO COLOCATI dstopo = BUS				COLOCATED F dstopo = BUS				
(B) distspa	2346	dstopo = STAF	dstopo = BUS			dstopo = STAF	dstopo = BUS			
nom_rang	cur–dis	subfeed	prifeede	subfeed	prifeeder	subfeed	prifeede	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	17226
500	0	0	0	0	0	500	0	500	0	16726
1000	0	0	0	0	0	1000	0	1000	0	16226
2000	0	0	0	0	0	2000	0	2000	0	15226
3000	654	654	0	654	0	3000	0	3000	0	14226
4000	1654	1654	0	1654	0	4000	0	4000	0	13226
5000	2654	2654	0	2654	0	5000	0	5000	0	12226
6000	3654	3654	0	3654	0	6000	0	6000	0	11226
7000	4654	4654	0	4654	0	7000	0	7000	0	10226
8000	5654	5654	0	5654	0	8000	0	8000	0	9226
9000	6654	6654	0	6654	0	9000	0	9000	0	8226
10000	7654	7654	0	7654	0	10000	0	10000	0	7226
11000	8654	8654	0	8654	0	11000	0	11000	0	6226
12000	9654	4827	4827	0	9654	6000	6000	0	12000	5226
13000	10654	5327	5327	0	10654	6500	6500	0	13000	4226
14000	11654	5827	5827	0	11654	7000	7000	0	14000	3226
15000	12654	6327	6327	0	12654	7500	7500	0	15000	2226
16000	13654	6827	6827	0	13654	8000	8000	0	16000	1226
17000	14654	7327	7327	1000	13654	8500	8500	0	17000	226
18000	15654	7827	7827	2000	13654	9000	9000	1000	17000	–774
19000	16654	8327	8327	3000	13654	9500	9500	2000	17000	–1774
20000	17654	8827	8827	4000	13654	10000	10000	3000	17000	–2774
80000	77654	9654	68000	5000	72654	9654	70346	4000	76000	–62774

RULES

ASSUMPTION – Table LOOKUP will select from the lower NOM_RANGE of a CUR_LPLGTH intermediate value

If CUR_LPLGTH is

=< DISTSPAN, then CUR_SEGLGTH^{dist} Equals CUR_LPLGTH – NOM_RANGE difference

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

= > DLCDEPL, then CUR_SEGLGTH^{prfdr} Equals CUR_LPLGTH – NOM_RANGE difference

CUR_SEGLGTH – Calculation Assumptions

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

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

OHIO ONLY
3 Geographic Areas

07/26/96
Revised

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

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 2
RESIDENCE LINE

MCI Depo.
Ex. No. 40
DJH 11-26-97

INDEX

BAND 2

Residence Line

C:\123R24\LCATR090\RESULTS1
OUTPUT – REPORT D
SHEET 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT SUMMARY REPORT

Bellcore®
LCAT Rel : 1.0.4
Issued : 7/31/95

COMPANY: CINCINNATI BELL TEL.	CIRCUIT DESIGN : TOTAL TECHNOLOGIES	STUDY YR :	1996
CITY / AREA: CINCINNATI	LOOP SPAN DIVISION : ALL LOOP SPANS	TEST CASE :	1
STATE / PROV : OHIO	SERVICE CLASS : BAND 2 – RESIDENCE LIN	RUN DATE :	22–Jan–97
JOB IDENT. : CINCINNATI	TOTAL LOOP LENGTH : 8534 FEET	TIME :	14:10

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	DISTRIBUTION NETWORK SUB–	DISTRIBUTION NETWORK	INTERFACE	WEIGHTED TOTAL LOOP
SHARED 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	$ 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	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
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	$ 2.45	$ 2.4513
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 1.29	$ 4.66	$ 0.00	$ 5.9500
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.13	$ 3.34	$ 0.00	$ 3.4700
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 2.59	$ 0.46	$ 0.00	$ 3.0500
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	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.31	$ 1.11	$ 0.00	$ 1.4200
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.92	$ 0.17	$ 0.00	$ 1.0900
SPAN SUMMARY		$ 0.00	$ 0.00	$ 5.24	$ 9.74	$ 2.45	$ 17.43
							$ 17.43

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OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: **1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 0 - 14000 FEET INTRASTATE**

CURRENT TEST PLAN :

	CURRENT JOB IDENT.	CINCINNATI		
BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	16:12
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 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:10

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	$ 2.45	$ 2.45	$ 2.45
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 1.29	$ 4.66		$ 5.95	$ 5.95
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.13	$ 3.34		$ 3.47	$ 3.47
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 2.59	$ 0.46		$ 3.05	$ 3.05
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		$ 0.31	$ 1.11		$ 1.42	$ 1.42
CONDUIT	4C	$ 0.00		$ 0.92	$ 0.17		$ 1.09	$ 1.09
SPAN SUMMARY		$ 0.00	$ 0.00	$ 5.24	$ 9.74	$ 2.45	$ 17.43	$ 17.43
CIRCUIT DESIGN SUMMARY							$ 17.43	

C:\123R24\LCATR090\RESULTS1
OUTPUT - WORKSHEET D
SHEET 2 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®
LCAT Rel : 1.0.4
Issued : 7/31/95

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

CIRCUIT DESIGN : 2 CDLC
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
DATE : 22-Jan-97
TIME : 14:10

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

C:\123R24\LCATR090\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®
LCAT Rel : 1.0.4
Issued : 7/31/95

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 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:10

Technology Type Mix : 0.0000 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	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	$ 2.45	$ 2.45	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 1.29	$ 4.66	$ 0.00	$ 5.95	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.13	$ 3.34	$ 0.00	$ 3.47	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 2.59	$ 0.46	$ 0.00	$ 3.05	$ 0.0000
CO EQPT - P GAIN TERM	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - P GAIN CHAN	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - FO MUX TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - FO MUX CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.31	$ 1.11	$ 0.00	$ 1.42	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.92	$ 0.17	$ 0.00	$ 1.09	$ 0.0000
SPAN SUMMARY		$ 0.00	$ 0.00	$ 5.24	$ 9.74	$ 2.45	$ 17.43	$ 0.00
TECHNOLOGY DESIGN SUMMARY							$ 17.43	

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OUTPUT – WORKSHEET D
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LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

COMPANY: CINCINNATI BELL TEL. CIRCUIT DESIGN : 1 FOMUX STUDY YR : 1996
CITY / AREA: CINCINNATI LOOP SPAN DIVISION : ALL LOOP SPANS TEST CASE : 1
STATE / PROV : OHIO SERVICE CLASS : BAND 2 – RESIDENCE LIN RUN DATE : 22-Jan-97
JOB IDENT : CINCINNATI TOTAL LOOP LENGTH : 8534 FEET TIME : 14:10

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

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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
CITY / AREA: CINCINNATI
STATE / PROV : OHIO
JOB IDENT. : CINCINNATI

CIRCUIT DESIGN : 2 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:10

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

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OUTPUT ~ WORKSHEET D
SHEET 6 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

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

CIRCUIT DESIGN : 3 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:10

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	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - LOW CAP TERM	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - LOW CAP CHAN	257C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - HI CAP TERM	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - HI CAP CHAN	857C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - ANALOG SW	77C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - DIGITAL SW	377C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONNECTORS	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
MISC. COM EQP & PWR	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.45
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 1.29	$ 4.66		$ 5.95	$ 5.95
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.13	$ 3.34		$ 3.47	$ 3.47
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 2.59	$ 0.46		$ 3.05	$ 3.05
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		$ 0.31	$ 1.11		$ 1.42	$ 1.42
CONDUIT	4C	$ 0.00		$ 0.92	$ 0.17		$ 1.09	$ 1.09
SPAN SUMMARY		$ 0.00	$ 0.00	$ 5.24	$ 9.74	$ 2.45	$ 17.43	$ 17.43
							$ 17.43	

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C:\123R24\LCATR090\RESULTS1
OUTPUT – WORKSHEET D
SHEET 7 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®
LCAT Rel : 1.0.4
Issued : 7/31/95

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

CIRCUIT DESIGN : 4 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 2 – RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:10

Circuit Design Mix : 10.0000 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	$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 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 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 8534 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:10

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	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®
LCAT Rel : 1.0.4
Issued : 7/31/95

COMPANY:	CINCINNATI BELL TEL	CIRCUIT DESIGN :	6 FOMUX	STUDY YR :	1996
CITY / AREA:	CINCINNATI	LOOP SPAN DIVISION :	ALL LOOP SPANS	TEST CASE :	1
STATE / PROV :	OHIO	SERVICE CLASS :	BAND 2 – RESIDENCE LIN	RUN DATE :	22-Jan-97
JOB IDENT. :	CINCINNATI	TOTAL LOOP LENGTH :	8534 FEET	TIME :	14:10

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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C:\123R24\LCATR090\RESULTS1 **LOOP COST ANALYSIS TOOL** **Bellcore®**
OUTPUT - WORKSHEET D PROSPECTIVE INVESTMENT WORKSHEET SUMMARY LCAT Rel : 1.0.4
SHEET 10 of 10 Issued : 7/31/95

COMPANY: CINCINNATI BELL TEL CIRCUIT DESIGN : MELDED FOMUX STUDY YR : 1996
CITY / AREA: CINCINNATI LOOP SPAN DIVISION : ALL LOOP SPANS TEST CASE : 1
STATE / PROV : OHIO SERVICE CLASS : BAND 2 - RESIDENCE LIN RUN DATE : 22-Jan-97
JOB IDENT. : CINCINNATI TOTAL LOOP LENGTH : 8534 FEET TIME : 14:10

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	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP TERM	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - LOW CAP CHAN	257C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP TERM	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - HI CAP CHAN	857C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT - DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.4513
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 1.29	$ 4.66	$ 0.00	$ 5.95	$ 5.9500
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.13	$ 3.34	$ 0.00	$ 3.47	$ 3.4700
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 2.59	$ 0.46	$ 0.00	$ 3.05	$ 3.0500
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	$ 0.31	$ 1.11	$ 0.00	$ 1.42	$ 1.4200
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.92	$ 0.17	$ 0.00	$ 1.09	$ 1.0900
SPAN SUMMARY		$ 0.00	$ 0.00	$ 5.24	$ 9.74	$ 2.45	$ 17.43	$ 17.43
							$ 17.43	

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RUN - DIST PLNT

LAST UPDATE 22-Jan-97 13:47

LOOP COST ANALYSIS TOOL

LCAT
Release: 1.0.4
Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 0 - 14000 FEET INT

CURRENT TEST PLAN :

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

....your run is finished

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

LOOP COST ANALYSIS TOOL

Bellcore®

BASIC INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC,NON-CO_LCC)
SERVICE CLASS : BAND 2 – RESIDENCE LINE

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

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:01

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
1836.0	AERIAL	0.620000	1138.3	0.042600	48.49		0.00	0.00	
CONSIDERS:	BURIED	0.330000	605.9	0.066800	40.47		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.050000	91.8	0.058000	5.32		0.00	0.00	
CABLE									
	Check =	1.000000	1836.0						

OUTSIDE PLANT LOADINGS (NOTE 4)

DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:	
AERIAL CA. =	0.0000	AERIAL CA. =	0.0000
BURIED CA =	0.0000	BURIED CA =	0.0000
UNDERGRND =	0.0000	UNDERGRND =	0.0000

OTHER INVESTMENT

	inv / unit lgth:	inv (lth) fctr :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 35.05	
UG CONDUIT FACTOR (UCf) =	0.0000	0.5166
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =	$ 7.86	

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)

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

LOOP COST ANALYSIS TOOL

Bellcore ®

ACCOUNT INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:01

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC,NON-COLLOC
SERVICE CLASS : BAND 2 - RESIDENCE 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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: 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	48.49	1		$ 48	0.3500		$ 139
BURIED CABLE (COPPER)	45C	V	DIRECT	40.47	1		$ 40	0.3500		$ 116
UNDERGROUND (CU) CA.	5C	V	DIRECT	5.32	1		$ 5	0.3500		$ 15
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	35.05	1		$ 35	1.0000		$ 35
CONDUIT	4C	F	DIRECT	7.86	1		$ 8	1.0000		$ 8
									$ 0	$ 312
										$ 312
										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.

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 **Bellcore**®

PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NCN–DLC,NON–COLLOC
SERVICE CLASS: BAND 2 – RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22–Jan–97
TIME: 14:01

PLANT ITEM	PLANT ACCT CODE	1996 TC 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		$ 139	0.4033		$ 55.88		$ 4.66
BURIED CABLE (COPPER)	45C	1.0000		$ 116	0.3467		$ 40.09		$ 3.34
UNDERGROUND (CU) CA.	5C	1.0000		$ 15	0.3663		$ 5.57		$ 0.46
CO EQPT – P GAIN TERM	257C	1.0000			0.3881				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT – FO MUX TERM	857C	1.0000			0.3881				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		$ 35	0.3807		$ 13.3[illegible]		$ 1.11
CONDUIT	4C	1.0000		$ 8	0.2521		$ 1.98		$ 0.17
			dstshrinv	dstdirinv					
TOTALS			$ 0	$ 312		$ 0.00	$ 116.87	$ 0.00	$ 9.74
				$ 312			$ 116.87		$ 9.74
				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.

C:\123R24\LCATCALC\DIST
DIST_PLNT – WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

Bellcore®
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 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:01

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	

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

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

LOOP COST ANALYSIS TOOL — **Bellcore**®
ACCOUNT INVESTMENT WORKSHEET
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 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:01

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: 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
										bctinviy

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

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

LOOP COST ANALYSIS TOOL

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Bellcore®
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 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 14:01

			1996 UNIT LOOP INVESTMENT BY ACCOUNT			1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
PLANT ITEM	PLANT ACCT CODE	1995 TO 1996 TPI [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3922		$ 29.42		$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 29.42	$ 0.00	$ 2.45
				$ 75			$ 29.42		$ 2.45
				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.

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

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT 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 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:02

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	1.02530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 0.00	

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

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT 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 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:02

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: 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
										bctinviy

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 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:02

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

Bellcore®

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:02

logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.	0						(See Note) TOTAL AVG. WEIGHTED INVESTMENT
		MIX	1.0000						
		LGTH.	8534						
		SEG. LGTH.	1836.0						1836
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		$ 4.66						$ 4.66
BURIED CABLE (COPPER)	45C		$ 3.34						$ 3.34
UNDERGROUND (CU) CA.	5C		$ 0.46						$ 0.46
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		$ 1.11						$ 1.11
CONDUIT	4C		$ 0.17						$ 0.17
SPAN SUMMARY			$ 9.74	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	
AVG. WTD. SPAN SUMMARY			$ 9.74	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	
NOTE:			$[sum(INV_{ACCT}^{BAND} * MIX^{BAND})]$						$ 9.74

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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

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

CIRCUIT SEGMENT : SERVICE ACCESS

SERVICE CLASS:BAND 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:02

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		2.45
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT – P GAIN TERM	257C		
CO EQPT – P GAIN CHAN	257C		
CO EQPT – FO MUX TERM	857C		
CO EQPT – FO MUX CHAN	857C		
CO EQPT – ANALOG SW	77C		
CO EQPT – DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
	SPAN TOTAL		$ 2.45

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RUN - SUB PRI

LAST UPDATE
22-Jan-97
13:50

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 2 (OHIO) RESIDENCE LINE STUDY 0 - 14000 FEET INTR

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

C:\123R24\LCATCALC\CUTECH
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 TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 2 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 7/31/96
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 14:04

	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]
	6698	AERIAL	0.290000	1942.42	0.011900	23.11		0.00	0.00	
MELDED GAUGE/S/		BURIED	0.020000	133.96	0.020500	2.75		0.00	0.00	
COPPER										
CABLE		UNDERGRND	0.690000	4621.62	0.011000	50.84		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 rltn fctr:
POLE LINE FACTOR =	0.000000	0.253000
POLE LINE INVESTMENT = (UTIL AERIAL INVEST x PLf)	$ 9.75	
UG CONDUIT FACTOR =	0.000000	0.516500
CONDUIT INVESTMENT = (UTIL UNDGRND INVEST x UCf)	$ 43.76	

MISC. COMMON EQPT. & POWER FACTOR =	0.112700
MCE&P INVESTMENT (CO CONN x FACTOR) =	$ 0.00
LAND FACTOR =	0.00560
LAND NVST (CO CONN + MCE&P) x FACTOR =	$ 0.00
BUILDING FACTOR =	0.13160
BLDG NVST (CO CONN + MCE&P) x FACTOR =	$ 0.00
PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
PERCENT OF CO CONN AT ANALOG SWITCHES	0.0000

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

C:\123R24 LCATCALC\CUTECH
SUB_PR - WORKSHEET
Sheet 2 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB - PRIMARY
SERVICE CLASS: BAND 2 - RESIDENCE LINE

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 14:04

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION 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	23.11	1		$ 23	0.6000		$ 39
BURIED CABLE (COPPER)	45C	V	DIRECT	2.75	1		$ 3	0.6000		$ 5
UNDERGROUND (CU) CA.	5C	V	DIRECT	50.84	1		$ 51	0.6000		$ 85
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	9.75	1		$ 10	1.0000		$ 10
CONDUIT	4C	F	DIRECT	43.76	1		$ 44	1.0000		$ 44
									$ 0	$ 181
TOTALS										$ 181
										culpinviy

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

LOOP COST ANALYSIS TOOL

Bellcore (R)

PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB - PRIMARY
SERVICE CLASS: BAND 2 - RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:04

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		$ 39	0.4033		$ 15.54		$ 1.29
BURIED CABLE (COPPER)	45C	1.0000		$ 5	0.3467		$ 1.59		$ 0.13
UNDERGROUND (CU) CA.	5C	1.0000		$ 85	0.3663		$ 31.04		$ 2.59
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		$ 10	0.3807		$ 3.71		$ 0.31
CONDUIT	4C	1.0000		$ 44	0.2521		$ 11.03		$ 0.92
SUBTOTALS			$ 0	$ 181		$ 0.00	$ 62.90	$ 0.00	$ 5.24
TOTALS				$ 181			$ 62.90		$ 5.24
				culpinvsy			culpac		culpmrc

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

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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
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:04

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

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

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

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH	0						TOTAL AVG. WEIGHTED
		MIX	1.0000						
		LGTH	8534						
		SEG.LGTH.	6698						6698
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		$ 1.29						$ 1.29
BURIED CABLE (COPPER)	45C		$ 0.13						$ 0.13
UNDERGROUND (CU) CA.	5C		$ 2.59						$ 2.59
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	0.3	$ 0.31						$ 0.31
CONDUIT	4C	0.9	$ 0.92						$ 0.92
SPAN SUMMARY			$ 5.24	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 5.24
AVG. WTD. SPAN SUMMARY			$ 5.24	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	

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

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

LAST UPDATE
22-Jan-97
13:51

LOOP COST ANALYSIS TOOL

Bellcore LCAT
Release: 1.0.4
Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 0 - 14000 FEET INTRASTATE

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

C:\123R24\LCATCALC\CUPRGN — *LOOP COST ANALYSIS TOOL* — **Bellcore**®

CDLC_PLANT – WORKSHEET 1
Sheet 1 of 3

BASIC INVESTMENT WORKSHEET

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

COMPANY: CINCINNATI BELL TEL.	FACILITY TYPE : COPPER DIG LOOP CXR	LCAT Release :	1.0.4
CITY / AREA : OHIO	CIRCUIT DESIGN : 1 C	Issue Date :	8/31/95
STATE / PROV. : CINCINNATI	SERVICE CLASS : BAND 2 – RESIDENCE LINE	STUDY YR :	1996
		TEST CASE :	1
		DATE :	22-Jan-97
		TIME :	2:06 PM

8534 cur_lplgth
6698 cursfdr-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	0.290000	0.00	0.023800	$ 0.00		$ 0.00		
CO TO RT LINK										
ON		BURIED	0.020000	0.00	0.041000	$ 0.00		$ 0.00		
COPPER CABLE DLC										
24.00 GA. FACILITIES		UNDERGRND	0.690000	0.00	0.022000	$ 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) =	intdicco_	$ 0.00	$ 0.00
INT DLC EQUIP INVEST. (CU RTMUX) =	intdicrt_	$ 51.57	$ 85.28
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdicco_	$ 12.14	$ 87.51
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdicrt_	$ 51.57	$ 85.28
DLC EQUIP INVEST. (CU LINE) =	___dlccol		$ 0.00
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvst		$ 4.17	
OTHER INVESTMENT		inv / unit lgth	:inv rltn 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) =	$ 0.45
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 =	$ 0.88
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 =	$ 20.62
BLDG INVST. ((CO CONN+MCEP) x BLDGf) =	$ 0.00
LOOP TOPOLOGY	STAR
AVERAGE NUMBER OF HUBS	NA
ADDITIONAL LENGTH OF RING OSP REQUIRED	NA
MIX OF CENT. OFC. ANALOG INTFC	0.0000
MIX OF CENT. OFC. DIGITAL INTFC	1.0000
MIX OF UNIVERSAL DLC INTFC	0.0400
MIX OF INTEGRATED DIGITAL INTFC	0.9600

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON 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.

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

LOOP COST ANALYSIS TOOL

Bellcore®

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 : 1 C
SERVICE CLASS : BAND 2 – RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 22-Jan-97
TIME : 02:06 PM

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.88	0			1.0000		
BUILDING	10C	F	SHARED	20.75	0			1.0000		
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000		
INTRABLDG CABLE	52C	---	---		0			0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00	0			0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	4.17	0			0.6000		
CO EQPT – P GAIN TERM	257C	F	DIRECT	67.48	0			0.7000		
CO EQPT – P GAIN CHAN	257C	V	DIRECT	88.78	0			0.7000		
CO EQPT – FO MUX TERM	857C	F	DIRECT		0			1.0000		
CO EQPT – FO MUX CHAN	857C	F	DIRECT		0			1.0000		
CO EQPT – ESS – ANALOG	77C	V	DIRECT	0.00	0			1.0000		
CO EQPT – ESS – DIGITAL	377C	V	DIRECT	0.00	0			1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT		0			0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT		0			0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT		0			0.3300		
CONNECTORS	57C	V	DIRECT		0			1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.45	0			1.0000		
POLE LINE	1C	F	DIRECT	0.00	0			1.0000		
CONDUIT	4C	F	DIRECT	0.00	0			1.0800		
TOTALS									$0	$0
										$0
										FEED1IY

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

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

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

Bellcore
LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR : 1996
TEST CASE : 1
DATE : 22-Jan-97
TIME : 02:08 PM

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

FACILITY TYPE : COPPER DIG LOOP CXR
CIRCUIT DESIGN : C
SERVICE CLASS : BAND 2 - RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3563				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000				
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			$ 0	$ 0		$ 0.00	$ 0.00	$ 0.00	$ 0.00
				$ 0 FEED1SY			$ 0.00 FEED1ANN		$ 0.00 FEED1MRC

CONFIDENTIAL
NOTICE ... PUBLIC

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

C:\123R24\LCATCALC\CUPRGN
CDLC_PLANT - REPORT 14.1
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT : PRIMARY FEEDER SEGMENT STUDY YR : 1996
CITY / AREA : CINCINNATI CIRCUIT DESIGN: 1) COPPER DIG LOOP CXR TEST CASE : 1
STATE / PROV : OHIO SERVICE CLASS : BAND 2 - RESIDENCE LINE DATE : 22-Jan-97
TIME : 02:07 PM

cgc-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT (SEE NOTE)

PLANT ITEM	PLANT ACCT CODE	BAND / MIX / AVG LGTH	TOTAL AVG. WEIGHTED INVESTMENT
BAND		0	
MIX		1.0000	
AVG LGTH		8534	
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: $[\mathrm{sum}(\mathrm{INV}_{ACCT}^{BAND} * \mathrm{MIX}^{BAND})]$

C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN – FO MUX

LAST UPDATE

22-Jan-97

13:54

LOOP COST ANALYSIS TOOL

LCAT
Release: 1.0.4
Issued: 7/31/95

FEEDER SEGMENT COST MODEL – FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 0 – 14000 FEET INTRAST

CURRENT TEST PLAN :

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

....your run is finished

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

C:\123R24\LCATCALC\FOPRGN.WK1
FO_MUX – WORKSHEET 3
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore

BASIC INVESTMENT WORKSHEET

FOR PRIMARY FEEDER PLANT

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

FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3) FOMUX TO HUB / REM.
SERVICE CLASS : BAND 2 – RESIDI SERVICE LEVEL: NARBAND

LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 22–Jan–97
TIME : 14:05

from star_tbl : 6698 cur_sfdrlgth ; 0 cur_prilgth
from bw_mix : f = 1979.04 wtdeqvmn

CABLE COMPONENTS (NOTE 5)

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 FOOT	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	0.480000	0.00	0.193000	0.00		0.00		
CO TO HUB LINK ON		BURIED	0.000000	0.00	0.269400	0.00		0.00		
FIBER OPTIC FACILITIES		UNDERGRND	0.520000	0.00	0.182700	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 rltn 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	0.0400
MIX OF CENT. OFC. INTEGRATED DLC INTFC	0.9600

EQUIPMENT INVESTMENT LOADINGS	
INVST. PER CHAN. FOR CA TERM (CA CONN)=	$ 0.00
MISC. COM. EQPT. & POWER FACTOR (DLCrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHrem) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) =	0.1127
MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) =	0.1127
MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) =	$ 2.93
MCE&P INVST. (MUXrem+DLCrem) x 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. =	$ 0.16
LAND INVST. (MUX+DLC+MCEP) x LANDfrem =	$ 0.98
BUILDING FACTOR FOR DLC EQP(BLDGfrem)=	0.1316
BUILDING FACTOR FOR MUX EQP(BLDGfrem)=	0.1316
BUILDING FACTOR FOR OTH(BLDGfrem)=	0.1316
BUILDING FACTOR FOR DLC EQP(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. =	$ 3.80
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.

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

LOOP COST ANALYSIS TOOL

Bellcore®

ACCOUNT INVESTMENT WORKSHEET
FOR PRIMARY FEEDER PLANT

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

FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 2 – RESID SERVICE LEVEL: NARBAND

LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 22–Jan–97
TIME : 14:08

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES
	cmstart							utilstart		
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]
LAND	20C	F	SHARED	1.14	0			1.0000		
BUILDING	10C	F	SHARED	26.89	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	52.06	0			0.7000		
CO EQPT – LOW CAP CHAN	257C	V	DIRECT	88.78	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	2.93	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
										feasiy

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 — Bellcore

ANNUAL COSTS WORKSHEET
FOR PRIMARY FEEDER PLANT

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

FACILITY TYPE : FIBER IN THE LOOP
CIRCUIT DESIGN : 3 FOMUX TO HUB / REM.
SERVICE CLASS : BAND 2 - RES SERVICE LEVEL: NARBAND

LCAT Rel : 1.0.4
ISSUE DATE : 7/31/95
STUDY YR : 1996
TEST CASE : 1
LAST RUN : 22-Jan-97
TIME : 14:06

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
			======	======		======	======	======	======
TOTALS			$0	$0		$0.00	$0.00	$0.00	$0.00
				======			======		======
				$0			$0.00		$0.00
				feed3sy			feed3ann		feed3mrc

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

OHIO ONLY
3 Geographic Areas

07/26/96
Revised

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

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LOOP COST ANALYSIS TOOL

Bellcore®

TABLE - COST_METH
SHEET 1 of 2

COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENT

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

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

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\LCATR072\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN

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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 *****
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C:\123R24\LCATR072·COSTMETH **LOOP COST ANALYSIS TOOL** **Bellcore®**

TABLE - COST_METH
SHEET 2 of 2

LCAT Rel : 1.0.4
Issued : 07/31/95

COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

STUDY YR: 1996
TEST CASE : 1
LAST UPDATE : 12-Jul-96
TIME : 07:31

WHEN BANDWIDTH DELIVERY IS ....

PLANT ITEM	PLANT CODE	NARBAND CATEGORY SENS. INDEX	NARBAND RESOURCE ASSIGNMENT	WIDEBAND CATEGORY SENS. INDEX	WIDEBAND RESOURCE ASSIGNMENT	BROADBAND CATEGORY SENS. INDEX	BROADBAND 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

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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
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TABLE – COST_METH
Sheet 2 of 2

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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 Investment. SHARED – for Multi–Circuit or Non–Specific Investment.

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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 : 05-Dec-96
LAST UPDATE: 17-Oct-96 01:23 PM

STUDY NAME 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 ~ 14000 FEET INTRASTATE

COMMENTS

		STUDY BASIS	x NETWORK
SERVICE CLASS	BAND 2 – RESIDENCE LINE		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	VH 0 / HI 100 / MED 0 / LO 0	**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

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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 <u>percent of technology mix</u>, the Facility types in the loop network that support the service/s/ under study or enter <u>an "X" to denote inclusion</u>.
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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INPUT – STUDY SETUP	GENERAL STUDY REQUIREMENTS	LCAT Rel. 1.0.4
SHEET 2 / 2	STUDY QUESTIONS	ISSUED: 3/31/95
	FOR	STUDY YEAR: 1996
COMPANY: CINCINNATI BELL TEL.	INVESTMENT YEAR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI	LOOP STUDY YEAR: 1996	LAST UPDATE: 17-Oct-96
STATE / PROV: OHIO	SERVICE CLASS: BAND 2 – RESIDENCE LINE	TIME: 01:23 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	14000	Feet
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ?	F or D	FLATRATE	
	9a. If Distance Sensitive, what band increment do you want ?	[illegible]		
	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 Al	COST	
	12. Is this study for Total Incremental or Marginal Costs ?	T or M	TOT INCR	
	13. How many circuits (loops) in this Study ?	[illegible]	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

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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\LCATR072\DESIGN	*LOOP COST ANALYSIS TOOL*	Bellcore
INPUT – LOOP_DESIGN Sheet 1 / 1	CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR	LCAT Rel :1.0.4 Issued :07/31/95 STUDY YR : 1996
COMPANY :CINCINNATI BELL TEL. CITY / AREA :CINCINNATI STATE / PROV :OHIO	INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS:BAND 2 – RESIDENCE LINE	TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 07:34

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

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FOR COPPER DLC DESIGNS:

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

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

C:\123R24\LCATR072\DESIGN
INPUT - LOOP_DESIGN
Sheet 1 of 1

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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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C:\123R24\LCATR072\FACILITY **LOOP COST ANALYSIS TOOL** **Bellcore**

TABLE - SPAN_INV SHEET 1 / 4	LOOP FACILITY INPUT FIBER CABLE DATA FOR	LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO	INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 -- RESIDENCE LINE	TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 07:36

FIBER CABLE INVESTMENT AND CHARACTERISTICS

CABLE TYPE MIX (DISTRIBUTION TO CODE) :

Proportion of FIBER cable Installations that are		FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	
	AERIAL	0.4800	0.0000	factors
	BURIED	0.0000	0.0000	factors
	UNDGRD	0.5200	0.0000	factors

INVESTMENT PER CABLE PAIR FOOT
BY CABLE TYPE :

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

If not, Update Unit Averages as Follows :

PRIMARY SEGMENT

Average Unit Investment for FIBER cable. Installed as				
	AERIAL	$	0.1930	per fiber pair Foot
	BURIED	$	0.2694	per fiber pair Foot
	UNDGRD	$	0.1827	per fiber pair Foot
			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	$	0.2694	$	0.0000	per fiber pair Foot
	UNDGRD	$	0.1827	$	0.0000	per fiber pair Foot
			(Fiber Hub to Remote Terminal)		(Remote Terminal to Service Point)	

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LOOP COST ANALYSIS TOOL

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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 2 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 07:36

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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TABLE - SPAN_INV SHEET 2 / 4	LOOP FACILITY INPUT COPPER CABLE DATA FOR	LCAT Rel: 1.0.4 Issued: 07/31/95
		STUDY YR: 1996
COMPANY: CINCINNATI BELL TEL.	INVESTMENT YEAR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI	LOOP STUDY YEAR: 1996	LAST UPDATE: 12-Jul-96
STATE/PROV: OHIO	SERVICE CLASS: BAND 2 - RESIDENCE LINE	TIME: 07:36

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

Cable Type Mix, By Gauge :

The Proportion of Copper Cable that is ....

GUAGE	TYPE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	0.2900	0.6200
	BURIED	0.0200	0.3300
	UNDGRND	0.6900	0.0500
24 GA.	AERIAL	0.2900	0.6200
	BURIED	0.0200	0.3300
	UNDGRND	0.6900	0.0500
22 GA.	AERIAL	0.0000	0.0000
	BURIED	0.0000	0.0000
	UNDGRND	0.0000	0.0000

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

Update Cable Sheath Prices **[Required with INDIVIDUAL Mode]**
on the FULL SET Input SHEET ? (Y / N) N
If not, Update

Average Unit Investment for Copper Cable Installed as ...

GUAGE	TYPE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
26 GA.	AERIAL	$ 0.0119	$ 0.0426
	BURIED	$ 0.0205	$ 0.0668
	UNDGRND	$ 0.0110	$ 0.0580
24 GA.	AERIAL	$ 0.0119	$ 0.0426
	BURIED	$ 0.0205	$ 0.0668
	UNDGRND	$ 0.0110	$ 0.0580
22 GA.	AERIAL	$ 0.0000	$ 0.0000
	BURIED	$ 0.0000	$ 0.0000
	UNDGRND	$ 0.0000	$ 0.0000

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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TABLE - SPAN_INV
SHEET 2A / 4

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

LOOP FACILITY INPUT
COPPER CABLE DATA - BY CABLE SHEATH DETAIL
FOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 07:36

COPPER CABLE INVESTMENT REFERENCE TABLE

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

Cable Sheath Sizes		Capacity	Gauge: => INDEX	26 GA. 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	$									
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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C:\123R24\LCATR072\FACILITY.WK1 — *LOOP COST ANALYSIS TOOL* — Bellcore®

SPAN NV - WORKSHEET
Sheet 1 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT
SERVICE CLASS: BAND 2 - RESIDENCE LINE

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

LCAT Rel: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 12-Jul-96
TIME: 07:36

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.	0.620000	$ 0.042600	0.1500	0.093000	$ 0.006390
BURIED @ 26 GA.	0.330000	$ 0.066800	0.1500	0.049500	$ 0.010020
UNDGRND @ 26 GA.	0.050000	$ 0.058000	0.1500	0.007500	$ 0.008700
AERIAL @ 24 GA.	0.620000	$ 0.042600	0.8500	0.527000	$ 0.036210
BURIED @ 24 GA.	0.330000	$ 0.066800	0.8500	0.280500	$ 0.056780
UNDGRND @ 24 GA.	0.050000	$ 0.058000	0.8500	0.042500	$ 0.049300
AERIAL @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
BURIED @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
UNDGRND @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
			Check =	1.00	

DATA DESC.	--- TABLE 2 --- CABLE TYPE MIX RANGE NAME / MELDED GAUGES	--- TABLE 4 --- PAIR / FOOT INVESTMENT RANGE NAME / MELDED GAUGES	--- TABLE 6 --- PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED / MELDED GAUGES
CHARACTERISTICS FOR :	[F=sum(D TYPE)]	[G=sum(E TYPE)]	[H=F TYPE / sum(F TYPE)]
AERIAL	0.620000	$ 0.042600	$ 0.652632
BURIED	0.330000	$ 0.066800	$ 0.347368
UNDERGRND	0.050000	$ 0.058000	
	Check = 1.000000		Check = 1.000000

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FOOTNOTES

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SPAN INV - WORKSHEET
Sheet 2 / 3

COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FOR
FACILITY TYPE: COPPER CABLE
DESIGN TYPE: SUBFEEDER SEGMENT
SERVICE CLASS: BAND 2 - RESIDENCE LINE

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

LCAT Rel: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 12-Jul-96
TIME: 07:36

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.	0.290000	$ 0.011900	0.1500	0.043500	$ 0.001785
BURIED @ 26 GA.	0.020000	$ 0.020500	0.1500	0.003000	$ 0.003075
UNDGRND @ 26 GA.	0.690000	$ 0.011000	0.1500	0.103500	$ 0.001650
AERIAL @ 24 GA.	0.290000	$ 0.011900	0.8500	0.246500	$ 0.010115
BURIED @ 24 GA.	0.020000	$ 0.020500	0.8500	0.017000	$ 0.017425
UNDGRND @ 24 GA.	0.690000	$ 0.011000	0.8500	0.586500	$ 0.009350
AERIAL @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
BURIED @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
UNDGRND @ 22 GA.	0.000000	$ 0.000000	0.0000	0.000000	$ 0.000000
			Check =	1.00	

--- TABLE 2 --- / --- TABLE 4 --- / --- TABLE 6 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED AERIAL/BURIED	MELDED GAUGES
CHARACTERISTICS FOR:		[F=sum(D_{TYPE})]		[G=sum(E_{TYPE})]		[H=F_{TYPE} / sum(F_{TYPE})]
AERIAL		0.290000		$ 0.011900		$ 0.935484
BURIED		0.020000		$ 0.020500		$ 0.064516
UNDERGRND		0.690000		$ 0.011000		
	Check =	1.000000			Check =	1.000000

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TABLE - SPAN_INV SHEET 3 / 4	LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA FOR	LCAT Rel : 1.0.4 Issued : 07/31/95
COMPANY: CINCINNATI BELL TEL.	INVESTMENT YEAR : 1996	STUDY YR : 1996 TEST CASE : 1
CITY / AREA: CINCINNATI	LOOP STUDY YEAR : 1996	LAST UPDATE : 12-Jul-96
STATE/PROV: OHIO	SERVICE CLASS : BAND 2 - RESIDENCE LINE	TIME : 07:36

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.

C:\123R24\LCATR072\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

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

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

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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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 2 - RESIDENCE LINE

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

LCAT Rel: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 12-Jul-96
TIME: 07:36

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

ADJUSTED PAIR / FOOT INVESTMENT DESCRIPTION	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PFIcgg) [D]	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.	$ 0.023800	$ 0.000000	$ 0.023800	$ 0.023800
BURIED @ 26 GA.	$ 0.041000	$ 0.000000	$ 0.041000	$ 0.041000
UNDGRND @ 26 GA.	$ 0.022000	$ 0.000000	$ 0.022000	$ 0.022000
AERIAL @ 24 GA.	$ 0.023800	$ 0.000000	$ 0.023800	
BURIED @ 24 GA.	$ 0.041000	$ 0.000000	$ 0.041000	
UNDGRND @ 24 GA.	$ 0.022000	$ 0.000000	$ 0.022000	
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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 12-Jul-96
TIME : 07:36

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - RESIDENCE LINE

SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS

AVERAGE UNIT MIX :

AVERAGE UNIT INVESTMENT :

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

Proportion of Loops that use.......

Aerial	0.00
Buried	0.00

Per Unit Installation......

Aerial Termination	0
Buried Termination	0

The Average Drop Wire & Building Entrance Cable Installation -

Proportion of Loops that use..

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

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

Per Unit Installation......

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

The Average Intrabuilding Cable Installation -
Proportion of Installations with Intrabuilding Cable 0.0000

Per Instln for a Intrabuilding Network Cable Pair $ 0.00

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SPAN_INV
4

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Bellcore®
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.

***** 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

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TABLE - FACTORS
SHEET 1 / 1

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

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

SERVICE CLASS:BAND 2 - RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 3/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 17-Jan-97
TIME : 15:22

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3458
AERIAL CABLE (FIBER)	1.0000	0.2983
BURIED CABLE (FIBER)	1.0000	0.2724
UNDERGROUND (FO) CA.	1.0000	0.2669
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

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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 2 – RESIDENCE LINE

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 12-Jul-96 07:38

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					$ 8.33

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

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TABLE – EQUIP_INV

HELP INFORMATION

LCAT Ref : 1.0.4
Issued : 07/31/95

LCAT Commands	Description
	This Command will allow the User –
EDIT	To Enter Values with DIRECT Input on a cell by cell basis.
CLEAR	To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items	Description	
	This Equipment Item Represents –	
Ofc Rept Bay	A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.	
Integrated DLC	The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.	
Universal DLC	The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.	
		See Circuit Designs :
COE Field Item 1	FITL/CDLC Hub Extension or FITL non–Hubbing Arrangements, CO End Equip.	2,3,4 & 6
REM Field Item 1	FITL/CDLC Hub Extension or FITL non–Hubbing Arrangements, REM End Equip.	2,3,4 & 6
COE Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.	1 & 5
REM Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.	1 & 5
REM Field Item 4	FITL Hubbed Arrangements, RING Span Equip, HUB Sites.	1,2,5 & 6

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

****** THE INPUT DATA NAMES IN RED CROSS–REFERENCE TO THEIR DATA CATALOG NAMES ******
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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - ADDNL_INV
Sheet 1 of 2

INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORS
FOR

COMPANY: CINCINNATI BELL TEL	INVESTMENT YEAR: 1996	LCAT Rel :	1.0.4
CITY / AREA: CINCINNATI	LOOP STUDY YEAR: 1996	Issued :	3/31/95
STATE: OHIO	SERVICE CLASS: BAND 2 - RESIDENCE LIN	STUDY YR :	1996
		TEST CASE :	1
		LAST UPDATE :	12-Jul-96
		TIME :	07:39

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
Hut	1.0000
Comm. Svc. Cab.	1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN

Bellcore®
LCAT Rel : 1.0.4
Issued : 3/31/95

NOTE :

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

2. THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES). THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY. ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

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

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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 2 - RESIDENCE LINE

LCAT Rel: 1.0.4
Issued: 3/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 12-Jul-96
TIME: 07:39

SEGMENT ....

POLE LOADINGS:

	DISTRIBUTION ❷	FEEDER use *DEFAULT*
Copper Cable Pole Investment Factor	0.2530	0.2530
Copper Cable Pole Unit Investment		
Fiber Cable Pole Investment Factor	0.1965	0.1965
Fiber Cable Pole Unit Investment		

CONDUIT LOADINGS:

	DISTRIBUTION	FEEDER
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:

LAND LOADING FACTORS:

	CENT. OFC. ❶	REMOTE SITE ❷
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:

	CENT. OFC.	REMOTE SITE
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:

	CENT. OFC.	REMOTE SITE
Other or *ALL* ❶	0.1127	0.1127
Digital Loop Carrier	0.1127	0.1127
Fiber Optic Mux	0.1127	0.1127

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

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

2. THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES). THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY. ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

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

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INPUT - PLANT_CHAR.
Sheet 1 / 5

LOOP FACILITY INPUT
LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS
FOR

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 16-Oct-96
TIME : 08:38

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 2 - RESIDENCE LINE

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

LOOP TOPOLOGY — **ACTION SEGMENT**

Loop FEEDER Network Configuration Is (S)tar Or (R)ing	PRIMARY	STAR
Average Number Of Hubs In Each Ring	PRIMARY	NA
Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us	DISTRIBUTION	STAR

SPAN LENGTHS

1	Average Distance From the Central Office to the Service Access Point	TOTAL LOOP	8534.0
2	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION	1836.0
3	Average Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY	300.0
4	Average Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY	6398.0
5	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION	

LOOP LENGTH AT EACH COST BAND — **DISTRIBUTION OF COST BANDS IN THE NETWORK**

BAND 1		BAND 1	
BAND 2		BAND 2	
BAND 3		BAND 3	
BAND 4		BAND 4	
BAND 5		BAND 5	

CONFIDENTIAL
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCO

LAST	8534.0	LAST	1.0000

1.0000 Hint

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C:\123R24\LCATR072'SPAN — **LOOP COST ANALYSIS TOOL** — Bellcore®

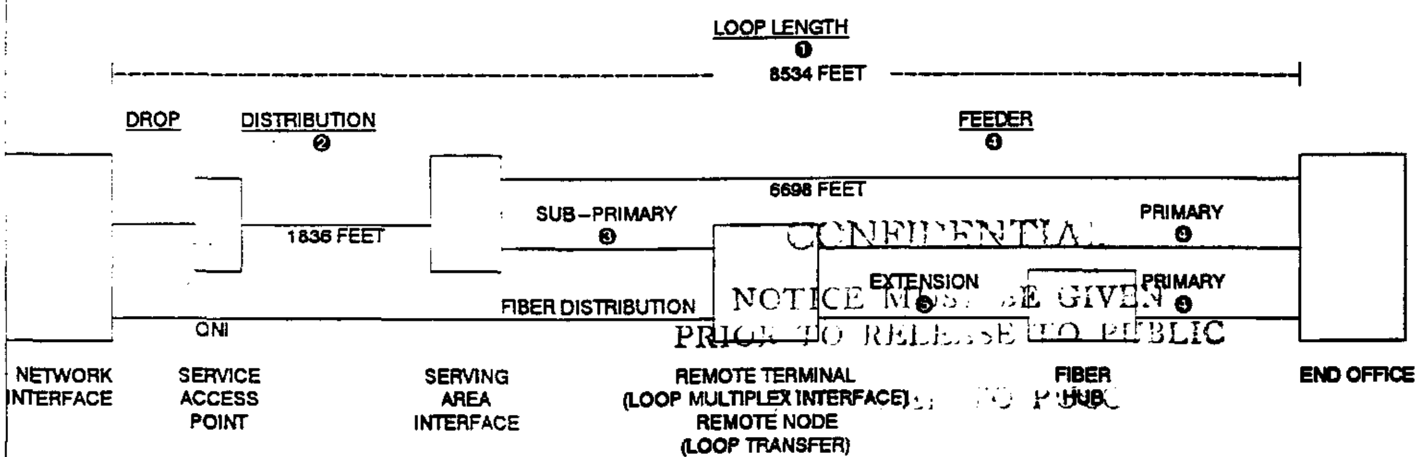
INPUT - PLANT_CHAR.
Sheet 1 / 1

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 2 – RESIDENCE LINE

LCAT Rel :1.0.4
Issued : 07/31/95
STUDY YR : 1996
TEST CASE : 1
LAST UPDATE : 16-Oct-96
TIME : 08:36

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



C:\123R24\LCATR072\SPAN **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 coct 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

C:\123R24\LCATR072\SPAN

LOOP COST ANALYSIS TOOL **Bellcore**

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.

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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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INPUT - PLANT_CHAR. LOOP FACILITY INPUT LCAT Rel :1.0.4
Sheet 2a / 5 FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER Issued : 07/31/95
FOR STUDY YR : 1996
COMPANY: 0 INVESTMENT YEAR: 1996 TEST CASE : 1
CITY / AREA: 0 LOOP STUDY YEAR: 1996 LAST UPDATE : 16-Oct-96
STATE / PROV: 0 SERVICE CLASS: BAND 2 - RESIDENCE LINE TIME : 08:36

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

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CUMULATIVE LENGTHS OF FEEDER :		EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT :	
AERIAL FIBER SUBTOTAL	0	AERIAL FIBER SUBTOTAL	0.0
BURIED FIBER SUBTOTAL	0	BURIED FIBER SUBTOTAL	0.0
UNDGRD FIBER SUBTOTAL	0	UNDGRD FIBER SUBTOTAL	0.0
FIBER SUBTOTAL	0	FIBER SUBTOTAL	0.0

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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

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

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 16-Oct-96
TIME: 08:36

SERVICE CLASS: BAND 2 – 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 INV$_{FACILITY WKSH B}$

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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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: 16-Oct-96
TIME : 08:36

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 2 – RESIDENC

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET A
CUMULATIVE LENGTHS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY 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

LCAT Rel :1.0.4
Issued : 07/31/95

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996

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

STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 16-Oct-96
TIME: 08:36

SERVICE CLASS:BAND 2 - 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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L O O P C O S T A N A L Y S I S T O O L

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

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

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS:BAND 2 – RESIDENC

TEST CASE : 1
LAST UPDATE: 16–Oct–96
TIME : 08:36

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			0.01	0.0

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NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
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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

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: 16-Oct-96

SERVICE CLASS:BAND 2 – RESIDENC
TIME: 08:36

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	dstactfl
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	dstbctfl
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	dstuctfl
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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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 : 16-Oct-96
TIME : 06:36

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

INVESTMENT YEAR : 1996
LOOP STUDY YEAR : 1996
SERVICE CLASS : BAND 2 -- RESIDENCE LINE

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

LEVEL OF SERVICE : NARBAND

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

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FOOTNOTES
1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.
2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for 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 : 16-Oct-96
TIME : 08:36

WORKSHEET DS

DIGITAL SIGNAL TABLE (d:csig tbl)

	SELECT	MODE	HIERARCY	BANDWIDTH	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	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				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							

PLANT CHAR. - WORKSHEET F
Sheet 1 of 1

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

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

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR.: 1996
TEST CASE: 1
LAST UPDATE : 16-Oct-96
TIME : 08:36

[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

C:\123R24\LCATR072\SPAN **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 : 16–Oct–96
TIME : 08:36

WORKSHEET SA

Sub Feeder Allocation Table

OFFSET

Sub Feeder Allocation Table seglgth alloc

cur lplgth 8534
dcldepl = 14000 | NO COLOCATI dstopo = BUS | COLOCATED RT AND CP, where
[B] distspa 1836 | dstopo = STAF | dstopo = BUS | COLOCATED F dstopo = BUS | dstopo = STAF | dstopo = BUS

0	1	2	3	4	5	6	7	8	9	10
nom_rang [C]	cur-dis [D=C-I	subfeed [E]	prifeede [F=D-E	subfeed [G]	prifeeder [H=D-G]	subfeed [I]	prifeede [J=C-I	subfeed [K]	prifeeder [L=C-K]	dif [M=A-C]
0	0	0	0	0	0	0	0	0	0	8534
500	0	0	0	0	0	500	0	500	0	8034
1000	0	0	0	0	0	1000	0	1000	0	7534
2000	164	164	0	164	0	2000	0	2000	0	6534
3000	1164	1164	0	1164	0	3000	0	3000	0	5534
4000	2164	2164	0	2164	0	4000	0	4000	0	4534
5000	3164	3164	0	3164	0	5000	0	5000	0	3534
6000	4164	4164	0	4164	0	6000	0	6000	0	2534
7000	5164	5164	0	5164	0	7000	0	7000	0	1534
8000	6164	6164	0	6164	0	8000	0	8000	0	534
9000	7164	7164	0	7164	0	9000	0	9000	0	–466
10000	8164	8164	0	8164	0	10000	0	10000	0	–1466
11000	9164	9164	0	9164	0	11000	0	11000	0	–2466
12000	10164	10164	0	10164	0	12000	0	12000	0	–3466
13000	11164	11164	0	11164	0	13000	0	13000	0	–4466
14000	12164	6082	6082	0	12164	7000	7000	0	14000	–5466
15000	13164	6582	6582	0	13164	7500	7500	0	15000	–6466
16000	14164	7082	7082	0	14164	8000	8000	0	16000	–7466
17000	15164	7582	7582	0	15164	8500	8500	0	17000	–8466
18000	16164	8082	8082	0	16164	9000	9000	0	18000	–9466
19000	17164	8582	8582	0	17164	9500	9500	0	19000	–10466
20000	18164	9082	9082	0	18164	10000	10000	0	20000	–11466
80000	78164	12164	66000	1000	77164	12164	67836	1000	79000	–71466

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RULES

ASSUMPTION – Table LOOKUP will select from the lower NOM_RANGE of a CUR_LPLGTH intermediate value

If CUR_LPLGTH is

=< DISTSPAN, then CUR_SEGLGTH^dist Equals CUR_LPLGTH – NOM_RANGE difference
> DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^star Equals CUR_LPLGTH – NOM_RANGE difference
= > DLCDEPL, then CUR_SEGLGTH^prior Equals CUR_LPLGTH – NOM_RANGE difference

CUR_SEGLGTH – Calculation Assumptions

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

OHIO ONLY
3 Geographic Areas

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

C:\123R24\LCATR091\RESULTS1
OUTPUT – REPORT D
SHEET 1 of 1

LOOP COST ANALYSIS TOOL

Bellcore®

PROSPECTIVE INVESTMENT SUMMARY REPORT

LCAT Rel : 1.0.4
Issued : 7/31/95

COMPANY: CINCINNATI BELL TEL.	CIRCUIT DESIGN : TOTAL TECHNOLOGIES	STUDY YR :	1996
CITY / AREA: CINCINNATI	LOOP SPAN DIVISION : ALL LOOP SPANS	TEST CASE :	1
STATE / PROV : OHIO	SERVICE CLASS : BAND 2 – RESIDENCE LIN	RUN DATE :	22–Jan–97
JOB IDENT. : CINCINNATI	TOTAL LOOP LENGTH : 22282 FEET	TIME :	14:47

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	DISTRIBUTION NETWORK SUB–	DISTRIBUTION NETWORK	INTERFACE	WEIGHTED TOTAL LOOP
SHARED RESOURCES							
LAND	20C	$ 0.02	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0221
BUILDING	10C	$ 0.66	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.6582
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	$ 0.09	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0946
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	$ 2.45	$ 2.4513
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.06	$ 6.85	$ 0.00	$ 6.9100
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.01	$ 4.91	$ 0.00	$ 4.9200
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.12	$ 0.68	$ 0.00	$ 0.8000
CO EQPT – LOW CAP TERM	257C	$ 2.41	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.4051
CO EQPT – LOW CAP CHAN	257C	$ 4.10	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 4.1019
CO EQPT – HI CAP TERM	857C	$ 0.73	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.7268
CO EQPT – HI CAP CHAN	857C	$ 1.23	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 1.2325
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	$ 0.07	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0680
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.06	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0629
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	$ 0.02	$ 0.00	$ 0.01	$ 1.63	$ 0.00	$ 1.6571
CONDUIT	4C	$ 0.03	$ 0.00	$ 0.04	$ 0.24	$ 0.00	$ 0.3108
SPAN SUMMARY		$ 9.42	$ 0.00	$ 0.24	$ 14.31	$ 2.45	$ 26.42
							$ 26.42

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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 2 (OHIO) RESIDENCE LINE STUDY 14001 FEET - INFINITY INTRAST

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	16:16
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 2 – RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22–Jan–97
TIME : 14:47

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	$ 0.02		$ 0.00	$ 0.00		$ 0.02	$ 0.02
BUILDING	10C	$ 0.51		$ 0.00	$ 0.00		$ 0.51	$ 0.51
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	$ 0.01		$ 0.00	$ 0.00		$ 0.01	$ 0.01
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.45
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.93		$ 0.06	$ 6.85		$ 7.84	$ 7.84
BURIED CABLE (COPPER)	45C	$ 0.10		$ 0.01	$ 4.91		$ 5.02	$ 5.02
UNDERGROUND (CU) CA.	5C	$ 2.07		$ 0.12	$ 0.68		$ 2.87	$ 2.87
CO EQPT – LOW CAP TERM	257C	$ 3.12		$ 0.00	$ 0.00		$ 3.12	$ 3.12
CO EQPT – LOW CAP CHAN	257C	$ 4.10		$ 0.00	$ 0.00		$ 4.10	$ 4.10
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	$ 0.22		$ 0.01	$ 1.63		$ 1.86	$ 1.86
CONDUIT	4C	$ 0.66		$ 0.04	$ 0.24		$ 0.94	$ 0.94
SPAN SUMMARY		$ 11.74	$ 0.00	$ 0.24	$ 14.31	$ 2.45	$ 28.74	$ 28.74
CIRCUIT DESIGN SUMMARY							$ 28.74	

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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 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
DATE : 22-Jan-97
TIME : 14:47

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

PLANT ITEM DESCRIPTION	PLANT NAME / SEG. NAME / EQPT PLANT 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 - 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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C:\123R24\LCATR091\RESULTS:
OUTPUT – WORKSHEET D
SHEET 3 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®
LCAT Rel : 1.0.4
Issued : 7/31/95

COMPANY: CINCINNATI BELL TEL.	CIRCUIT DESIGN : MELDED CDLC	STUDY YR :	1996
CITY / AREA: CINCINNATI	LOOP SPAN DIVISION : ALL LOOP SPANS	TEST CASE :	1
STATE / PROV : OHIO	SERVICE CLASS : BAND 2 – RESIDENCE LIN	RUN DATE :	22–Jan–97
JOB IDENT. : CINCINNATI	TOTAL LOOP LENGTH : 22282 FEET	TIME :	14:47

Technology Type Mix : 0.0000 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	SUB–	DISTRIBUTION	NETWORK INTERFACE	TOTAL LOOP	TECHNOLOGY WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.02	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.02	$ 0.0000
BUILDING	10C	$ 0.51	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.51	$ 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	$ 0.01	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.01	$ 0.0000
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 0.0000
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.93	$ 0.00	$ 0.06	$ 6.85	$ 0.00	$ 7.84	$ 0.0000
BURIED CABLE (COPPER)	45C	$ 0.10	$ 0.00	$ 0.01	$ 4.91	$ 0.00	$ 5.02	$ 0.0000
UNDERGROUND (CU) CA.	5C	$ 2.07	$ 0.00	$ 0.12	$ 0.68	$ 0.00	$ 2.87	$ 0.0000
CO EQPT – P GAIN TERM	257C	$ 3.12	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 3.12	$ 0.0000
CO EQPT – P GAIN CHAN	257C	$ 4.10	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 4.10	$ 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	$ 0.22	$ 0.00	$ 0.01	$ 1.63	$ 0.00	[illegible]	$ 0.0000
CONDUIT	4C	$ 0.66	$ 0.00	$ 0.04	$ 0.24	$ 0.00	$ 0.94	$ 0.0000
SPAN SUMMARY		$ 11.74	$ 0.00	$ 0.24	$ 14.31	$ 2.45	$ 28.74	$ 0.00
TECHNOLOGY DESIGN SUMMARY							$ 28.74	

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OUTPUT - WORKSHEET D
SHEET 4 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 FOMUX
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:47

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-		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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A C:\123R24\LCATR091\RESULTS1 — **LOOP COST ANALYSIS TOOL** — **Bellcore**®
B OUTPUT – WORKSHEET D — PROSPECTIVE INVESTMENT WORKSHEET SUMMARY — LCAT Rel : 1.0.4
C SHEET 5 of 10 — Issued : 7/31/95
D COMPANY: CINCINNATI BELL TEL — CIRCUIT DESIGN : 2 FOMUX — STUDY YR : 1996
E CITY / AREA: CINCINNATI — LOOP SPAN DIVISION : ALL LOOP SPANS — TEST CASE : 1
F STATE / PROV : OHIO — SERVICE CLASS : BAND 2 – RESIDENCE LIN — RUN DATE : 22-Jan-97
G JOB IDENT. : CINCINNATI — TOTAL LOOP LENGTH : 22282 FEET — TIME : 14:47

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

Row	PLANT ITEM DESCRIPTION	PLANT NAME / SEG. NAME / EQPT CODE	FEEDER PRIMARY	FEEDER EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
7	**SHARED RESOURCES**								
8	LAND	20C						$0	$0
9	BUILDING	10C						$0	$0
10	BLDG ENTRANCE CABLE	12C						$0	$0
11	INTRABLDG CABLE	52C						$0	$0
12	AERIAL CABLE (COPPER)	22C						$0	$0
13	BURIED CABLE (COPPER)	45C						$0	$0
14	UNDERGROUND (CU) CA.	5C						$0	$0
15	CO EQPT – LOW CAP TERM	257C						$0	$0
16	CO EQPT – LOW CAP CHAN	257C						$0	$0
17	CO EQPT – HI CAP TERM	857C						$0	$0
18	CO EQPT – HI CAP CHAN	857C						$0	$0
19	CO EQPT – ANALOG SW	77C						$0	$0
20	CO EQPT – DIGITAL SW	377C						$0	$0
21	AERIAL CABLE (FIBER)	822C						$0	$0
22	BURIED CABLE (FIBER)	845C						$0	$0
23	UNDERGROUND (FO) CA.	85C						$0	$0
24	CONNECTORS	57C						$0	$0
25	MISC. COM EQP & PWR	57C						$0	$0
26	POLE LINE	1C						$0	$0
27	CONDUIT	4C						$0	$0
28									
29	**DIRECT RESOURCES**								
30	LAND	20C						$0	$0
31	BUILDING	10C						$0	$0
32	BLDG ENTRANCE CABLE	12C						$0	$0
33	INTRABLDG CABLE	52C						$0	$0
34	AERIAL CABLE (COPPER)	22C						$0	$0
35	BURIED CABLE (COPPER)	45C						$0	$0
36	UNDERGROUND (CU) CA.	5C						$0	$0
37	CO EQPT – LOW CAP TERM	257C						$0	$0
38	CO EQPT – LOW CAP CHAN	257C						$0	$0
39	CO EQPT – HI CAP TERM	857C						$0	$0
40	CO EQPT – HI CAP CHAN	857C						$0	$0
41	CO EQPT – ANALOG SW	77C						$0	$0
42	CO EQPT – DIGITAL SW	377C						$0	$0
43	AERIAL CABLE (FIBER)	822C						$0	$0
44	BURIED CABLE (FIBER)	845C						$0	$0
45	UNDERGROUND (FO) CA.	85C						$0	$0
46	CONNECTORS	57C						$0	$0
47	MISC. COM EQP & PWR	57C						$0	$0
48	POLE LINE	1C						$0	$0
49	CONDUIT	4C						$0	$0
50									
51	SPAN SUMMARY		$0	$0	$0	$0	$0	$0	$0
52									
53								$0	
54									
55									

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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 2 - RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:47

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	$ 0.02		$ 0.00	$ 0.00		$ 0.02	$ 0.02
BUILDING	10C	$ 0.66		$ 0.00	$ 0.00		$ 0.66	$ 0.66
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	$ 0.09		$ 0.00	$ 0.00		$ 0.09	$ 0.09
POLE LINE	1C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CONDUIT	4C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
DIRECT RESOURCES								
LAND	20C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BUILDING	10C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
BLDG ENTRANCE CABLE	12C	$ 0.00		$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.45
INTRABLDG CABLE	52C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (COPPER)	22C	$ 0.00		$ 0.06	$ 6.85		$ 6.91	$ 6.91
BURIED CABLE (COPPER)	45C	$ 0.00		$ 0.01	$ 4.91		$ 4.92	$ 4.92
UNDERGROUND (CU) CA.	5C	$ 0.00		$ 0.12	$ 0.68		$ 0.80	$ 0.80
CO EQPT - LOW CAP TERM	257C	$ 2.41		$ 0.00	$ 0.00		$ 2.41	$ 2.41
CO EQPT - LOW CAP CHAN	257C	$ 4.10		$ 0.00	$ 0.00		$ 4.10	$ 4.10
CO EQPT - HI CAP TERM	857C	$ 0.73		$ 0.00	$ 0.00		$ 0.73	$ 0.73
CO EQPT - HI CAP CHAN	857C	$ 1.23		$ 0.00	$ 0.00		$ 1.23	$ 1.23
CO EQPT - ANALOG SW	77C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
CO EQPT - DIGITAL SW	377C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
AERIAL CABLE (FIBER)	822C	$ 0.07		$ 0.00	$ 0.00		$ 0.07	$ 0.07
BURIED CABLE (FIBER)	845C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
UNDERGROUND (FO) CA.	85C	$ 0.06		$ 0.00	$ 0.00		$ 0.06	$ 0.06
CONNECTORS	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
MISC. COM EQP & PWR	57C	$ 0.00		$ 0.00	$ 0.00		$ 0.00	$ 0.00
POLE LINE	1C	$ 0.02		$ 0.01	$ 1.63		$ 1.66	$ 1.66
CONDUIT	4C	$ 0.03		$ 0.04	$ 0.24		$ 0.31	$ 0.31
SPAN SUMMARY		$ 9.42	$ 0.00	$ 0.24	$ 14.31	$ 2.45	$ 26.42	$ 26.42
							$ 26.42	

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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 2 – RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22–Jan–97
TIME : 14:47

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	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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C:\123R24\LCATR091\RESULTS1
OUTPUT – WORKSHEET D
SHEET 8 of 10

LOOP COST ANALYSIS TOOL **Bellcore**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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 2 – RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22-Jan-97
TIME : 14:47

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	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 2 – RESIDENCE LIN
TOTAL LOOP LENGTH : 22282 FEET

STUDY YR : 1996
TEST CASE : 1
RUN DATE : 22–Jan–97
TIME : 14:47

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–		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	

C:\123R24\LCATR091\RESULTS1
OUTPUT – WORKSHEET D
SHEET 10 of 10

LOOP COST ANALYSIS TOOL

Bellcore®

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

LCAT Rel : 1.0.4
Issued : 7/31/95

COMPANY: CINCINNATI BELL TEL	CIRCUIT DESIGN : MELDED FOMUX	STUDY YR :	1996
CITY / AREA: CINCINNATI	LOOP SPAN DIVISION : ALL LOOP SPANS	TEST CASE :	1
STATE / PROV : OHIO	SERVICE CLASS : BAND 2 – RESIDENCE LIN	RUN DATE :	22–Jan–97
JOB IDENT. : CINCINNATI	TOTAL LOOP LENGTH : 22282 FEET	TIME :	14:47

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	SUB–	DISTRIBUTION	NETWORK INTERFACE	TOTAL LOOP	TECHNOLOGY WEIGHTED TOTAL LOOP
SHARED RESOURCES								
LAND	20C	$ 0.02	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.02	$ 0.0221
BUILDING	10C	$ 0.66	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.66	$ 0.6582
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	$ 0.09	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.09	$ 0.0946
POLE LINE	1C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CONDUIT	4C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
DIRECT RESOURCES								
LAND	20C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BUILDING	10C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
BLDG ENTRANCE CABLE	12C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.45	$ 2.45	$ 2.4513
INTRABLDG CABLE	52C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (COPPER)	22C	$ 0.00	$ 0.00	$ 0.06	$ 6.85	$ 0.00	$ 6.91	$ 6.9100
BURIED CABLE (COPPER)	45C	$ 0.00	$ 0.00	$ 0.01	$ 4.91	$ 0.00	$ 4.92	$ 4.9200
UNDERGROUND (CU) CA.	5C	$ 0.00	$ 0.00	$ 0.12	$ 0.68	$ 0.00	$ 0.80	$ 0.8000
CO EQPT – LOW CAP TERM	257C	$ 2.41	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 2.41	$ 2.4051
CO EQPT – LOW CAP CHAN	257C	$ 4.10	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 4.10	$ 4.1019
CO EQPT – HI CAP TERM	857C	$ 0.73	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.73	$ 0.7268
CO EQPT – HI CAP CHAN	857C	$ 1.23	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 1.23	$ 1.2325
CO EQPT – ANALOG SW	77C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
CO EQPT – DIGITAL SW	377C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
AERIAL CABLE (FIBER)	822C	$ 0.07	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.07	$ 0.0680
BURIED CABLE (FIBER)	845C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
UNDERGROUND (FO) CA.	85C	$ 0.06	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.06	$ 0.0629
CONNECTORS	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
MISC. COM EQP & PWR	57C	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.0000
POLE LINE	1C	$ 0.02	$ 0.00	$ 0.01	$ 1.63	$ 0.00	$ 1.66	$ 1.6571
CONDUIT	4C	$ 0.03	$ 0.00	$ 0.04	$ 0.24	$ 0.00	$ 0.31	$ 0.3108
SPAN SUMMARY		$ 9.42	$ 0.00	$ 0.24	$ 14.31	$ 2.45	$ 26.42	$ 26.42
							$ 26.42	

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RUN - DIST PLNT

LCAT

LAST UPDATE

22-Jan-97

14:04

LOOP COST ANALYSIS TOOL

Release: 1.0.4
Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

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

CURRENT TEST PLAN :

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

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Your run is finished

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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

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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

FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC,NON-COLLOC.)
SERVICE CLASS : BAND 2 - RESIDENCE 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
2699.0	AERIAL	0.620000	1673.4	0.042600	71.29		0.00	0.00	
CONSIDERS:	BURIED	0.330000	890.7	0.066800	59.50		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.050000	135.0	0.058000	7.83		0.00	0.00	
CABLE									
	Check =	1.000000	2699.0						

OUTSIDE PLANT LOADINGS (NOTE 4)

DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:	
AERIAL CA. =	0.0000	AERIAL CA. =	0.0000
BURIED CA =	0.0000	BURIED CA =	0.0000
UNDERGRND =	0.0000	UNDERGRND =	0.0000

OTHER INVESTMENT

	inv / unit lgth:	invstm fctr :
POLE LINE FACTOR (PLf) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =	$ 51.53	
UG CONDUIT FACTOR (UCf) =	0.0000	0.5185
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) =	$ 11.55	

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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)

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

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

SERVICE CLASS : BAND 2 -- RESIDENCE LINE

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION 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	71.29	1		$ 71	0.3500		$ 204
BURIED CABLE (COPPER)	45C	V	DIRECT	59.50	1		$ 59	0.3500		$ 170
UNDERGROUND (CU) CA.	5C	V	DIRECT	7.83	1		$ 8	0.3500		$ 22
CO EQPT -- P GAIN TERM	257C	F	DIRECT					0.7000		
CO EQPT -- P GAIN CHAN	257C	V	DIRECT					0.7000		
CO EQPT -- FO MUX TERM	857C	F	DIRECT					1.0000		
CO EQPT -- FO MUX CHAN	857C	F	DIRECT					1.0000		
CO EQPT -- ANALOG SW	77C	V	DIRECT					1.0000		
CO EQPT -- DIGITAL SW	377C	V	DIRECT					1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED					1.0000		
POLE LINE	1C	F	DIRECT	51.53	1		$ 52	1.0000		$ 52
CONDUIT	4C	F	DIRECT	11.55	1		$ 12	1.0000		$ 12
									$ 0	$ 459
										$ 459

distinvly

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

LOOP COST ANALYSIS TOOL

Bellcore®

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC,NON-COLLOC
SERVICE CLASS : BAND 2 – RESIDENCE LINE

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

LCAT Release : 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT: SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT: SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT: SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		$ 204	0.4033		$ 82.14		$ 6.85
BURIED CABLE (COPPER)	45C	1.0000		$ 170	0.3467		$ 58.94		$ 4.91
UNDERGROUND (CU) CA.	5C	1.0000		$ 22	0.3663		$ 8.19		$ 0.68
CO EQPT – P GAIN TERM	257C	1.0000			0.3881				
CO EQPT – P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT – FO MUX TERM	857C	1.0000			0.3881				
CO EQPT – FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT – ANALOG SW	77C	1.0000			0.0000				
CO EQPT – DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		$ 52	0.3807		$ 19.62		$ 1.63
CONDUIT	4C	1.0000		$ 12	0.2521		$ 2.91		$ 0.24
			dstshrinv	dstdirinv					
TOTALS			$ 0	$ 459		$ 0.00	$ 171.80	$ 0.00	$ 14.31
				$ 459			$ 171.80		$ 14.31
				distinvsy			distann		distmrc

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

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

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

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT 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 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

CODE G

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

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

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT 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 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION 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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PRIOR ...
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 — Bellcore®
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
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 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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	

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

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

Bellcore®
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 2 – RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION: DIRECT RESOURCES [H'=F'*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: SHARED RESOURCES [K=H/J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION: 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
										bctinviy

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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
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 14:33

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 2 - 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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		$ 75	0.3922		$ 29.42		$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
			bctshrinv	bctdirinv					
TOTALS			$ 0	$ 75		$ 0.00	$ 29.42	$ 0.00	$ 2.45
				$ 75			$ 29.42		$ 2.45
				bctinvsy			bctann		bctmrc

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

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DIST_PLNT - REPORT 14A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL — Belcore(R)

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

LCAT Release : 1.0.4
Issue Date : 6/31/95

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 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

logic-14a — 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT ITEM	PLANT ACCT CODE	BAND / MIX / AVG. LGTH.	0						(See Note) TOTAL AVG. WEIGHTED INVESTMENT
		MIX	1.0000						
		AVG. LGTH.	22282						
		SEG. LGTH.	2699.0						2699
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		$ 6.85						$ 6.85
BURIED CABLE (COPPER)	45C		$ 4.91						$ 4.91
UNDERGROUND (CU) CA.	5C		$ 0.68						$ 0.68
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		$ 1.63						$ 1.63
CONDUIT	4C		$ 0.24						$ 0.24
SPAN SUMMARY			$ 14.31	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	
AVG. WTD. SPAN SUMMARY			$ 14.31	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 0.00	
NOTE:			$[\mathrm{sum}(INV_{ACCT}^{BAND} * MIX^{BAND})]$						$ 14.31

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DIST_PLNT - REPORT 14B
Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore
LCAT
Release : 1.0.4

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

CIRCUIT SEGMENT : SERVICE ACCESS

SERVICE CLASS:BAND 2 - RESIDENCE LINE

STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 14:33

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		2.45
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
SPAN TOTAL			$ 2.45

CON[illegible] NOTICE M[illegible] BE GIVEN PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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RUN - SUB PRI

LAST UPDATE
22-Jan-97
14:06

Bellcore
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO) RESIDENCE LINE STUDY 14001 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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SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 2 - RESIDENCE LINE

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

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

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

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS
INVESTMENT PER CIRCUIT TERMINATION

	inv / unit lgth	inv rtn fctr
(CO CONN) CONNECTORS (coi77c) =	$ 0.00	
POLE LINE FACTOR =	0.000000	0.253000
POLE LINE INVESTMENT = (UTIL AERIAL INVEST x PLf)	$ 0.44	
UG CONDUIT FACTOR =	0.000000	0.516500
CONDUIT INVESTMENT = (UTIL UNDGRND INVEST x UCf)	$ 1.96	

MISC. COMMON EQPT. & POWER FACTOR =	0.112700
MCE&P INVESTMENT (CO CONN x FACTOR) =	$ 0.00
LAND FACTOR =	0.00560
LAND NVST (CO CONN + MCE&P) x FACTOR =	$ 0.00
BUILDING FACTOR =	0.13160
BLDG NVST (CO CONN + MCEP) x FACTOR =	$ 0.00
PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
PERCENT OF CO CONN AT ANALOG SWITCHES	0.0000

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).