

Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

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Page Count 200

Part II Exhibit #2 + 1st part of Exhibit #3

MCI Exhibits

1-48

INCREMENTAL

BUSINESS

BAND 3

NETWORK COST ANALYSIS TOOL (NCAT)
BAND 3 BUSINESS

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: BEDB, BENB, NEDB, NENB, NRDB, REDB, RENB, SHDB, SHNB, SMDB, SMNB, WDBB, WBNB

RUN DATE: 20-JAN-97
TIME : 12:52:49
PAGE : 1

ANNUALIZED INCREMENTAL MESSAGES AND MINUTES
BY DISTANCE BAND BY RATE PERIOD

DISTANCE BAND	RATE PERIOD	MESSAGES	TOTAL MINUTES	AVG MIN/MSG
0.0-12.8	08-07	359105.423	772996.856	2.153
	TOTAL	359105.423	772996.856	2.149
12.9-26.8	08-07	118011.058	251377.745	2.130
	TOTAL	118011.058	251377.745	2.130
26.9-9999.9	08-07	13688.577	26306.545	1.922
	TOTAL	13688.577	26306.545	1.922
ALL	08-07	490805.058	1050681.145	2.141
	TOTAL	490805.058	1050681.145	2.141

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NETWORK COST ANALYSIS TOOL (NCAT)
BAND 3 BUSINESS

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: BEDB, BENB, NEDB, NENB, NRDB, REDB, RENB, SHDB, SHNB, SMDB, SMNB, WDBB, WBNB

RUN DATE: 20-JAN-97
TIME : 12:52:49
PAGE 2

TRAFFIC SENSITIVE UNIT COST - SETUP RELATED

DISTANCE BAND	RP	TOTAL	-----SWITCHING-----			-----TRUNKING-----		
			EO	TDM	MEAS	FAC	TERM	SS7
0.0-12.8	08-07	0.003316	0.002193	0.000888	0.000000	0.000118	0.000117	0.000000
	AVG	0.003316	0.002193	0.000888	0.000000	0.000118	0.000117	0.000000
12.9-26.8	08-07	0.006579	0.003513	0.002590	0.000000	0.000204	0.000271	0.000000
	AVG	0.006579	0.003513	0.002590	0.000000	0.000204	0.000271	0.000000
26.9-9999.9	08-07	0.006094	0.003399	0.002238	0.000000	0.000193	0.000263	0.000000
	AVG	0.006094	0.003399	0.002238	0.000000	0.000193	0.000263	0.000000
ALL	08-07	0.004178	0.002544	0.001335	0.000000	0.000141	0.000158	0.000000
	AVG	0.004178	0.002544	0.001335	0.000000	0.000141	0.000158	0.000000

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NETWORK COST ANALYSIS TOOL (NCAT)
BAND 3 BUSINESS

DB : LCCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: BEDB, BENB, NEDB, NEVB, NRDB, REDB, RENB, SEB, SHNB, SMDB, SMNB, WDB, WBNB

RUN DATE: 20-JAN-97
TIME : 12:52:49
PAGE : 3

TRAFFIC SENSITIVE UNIT COST - DURATION RELATED

DISTANCE BAND	RP	TOTAL	-----SWITCHING-----			-----TRUNKING-----	
			EO	TDM	MEAS	FAC	TERM
0.0-12.8	08-07	0.002283	0.001342	0.000308	0.000000	0.000325	0.000308
	AVG	0.002283	0.001342	0.000308	0.000000	0.000325	0.000308
12.9-26.8	08-07	0.004655	0.002404	0.000964	0.000000	0.000564	0.000723
	AVG	0.004655	0.002404	0.000964	0.000000	0.000564	0.000723
26.9-9999.9	08-07	0.004358	0.002095	0.001019	0.000000	0.000536	0.000708
	AVG	0.004358	0.002095	0.001019	0.000000	0.000536	0.000708
ALL	08-07	0.002902	0.001515	0.000482	0.000000	0.000388	0.000418
	AVG	0.002902	0.001515	0.000482	0.000000	0.000388	0.000418

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NETWORK COST ANALYSIS TOOL (NCAT)
BAND 3 BUSINESS

DB : LOCAVG

VER : 4.1

CALC TYPE: AVERAGE

STUDY: BEDB, BENB, NEDB, NENB, NRDB, REDB, RENB, SHDB, SHNB, SMDB, SMNB, WDBB, WBNB

RUN DATE: 20-JAN-97

TIME : 12:52:49

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UNIT COST SUMMARY

DISTANCE BAND	RP (Hrs.)	COST/MSG (SETUP)	EXP/MSG	COST/MIN DURATION	EXP/MIN	COST / FIRST MIN	COST / ADDL MIN	COST/MIN (AVG.)	COST/CALL (AVG.)
0.0-12.8	08-07	0.003316	0.000000	0.002283	0.000000	0.005599	0.002283	0.003821	0.008230
	AVG	0.003316	0.000000	0.002283	0.000000	0.005599	0.002283	0.003821	0.008230
12.9-26.8	08-07	0.006579	0.000000	0.004655	0.000000	0.011234	0.004655	0.007423	0.016494
	AVG	0.006579	0.000000	0.004655	0.000000	0.011234	0.004655	0.007423	0.016494
26.9-9999.9	08-07	0.006094	0.000000	0.004358	0.000000	0.010452	0.004358	0.007529	0.014469
	AVG	0.006094	0.000000	0.004358	0.000000	0.010452	0.004358	0.007529	0.014469
ALL	08-07	0.004178	0.000000	0.002902	0.000000	0.007080	0.002902	0.004854	0.010391
	AVG	0.004178	0.000000	0.002902	0.000000	0.007080	0.002902	0.004854	0.010391

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NETWORK COST ANALYSIS TOOL (NCAT)
BAND 3 BUSINESS

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: SEDB, BENB, NEDB, AEB, NROB, REDB, RENB, SHDB, SHNB, SMDB, SMNB, WEDB, WENB

RUN DATE: 20-JAN-97
TIME : 12:52:49
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INCREMENTAL INVESTMENTS - SETUP

DISTANCE BAND	RP	SWITCHING			TRUNKING			SS7
		EO	TDM	MEAS	FAC	TERM		
0.0-12.8	08-07	2450.80	992.61	0.00	151.99	111.40	0.00	
	TOTAL	2450.80	992.61	0.00	151.99	111.40	0.00	
12.9-26.8	08-07	1290.20	951.20	0.00	86.03	85.03	0.00	
	TOTAL	1290.20	951.20	0.00	86.03	85.03	0.00	
26.9-9999.9	08-07	144.80	95.35	0.00	9.46	9.57	0.00	
	TOTAL	144.80	95.35	0.00	9.46	9.57	0.00	
ALL	08-07	3885.80	2039.16	0.00	247.81	205.99	0.00	
	TOTAL	3885.80	2039.16	0.00	247.81	205.99	0.00	

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NETWORK COST ANALYSIS TOOL (NCAT)
BAND 3 BUSINESS

DB : LOCAVG
VER : 4.1
CALC TYPE: AVERAGE
STUDY: BEDB, BENB, NEDB, NENB, NRDB, REDB, RENB, SHDB, SHNB, SMDB, SMNB, WBOB, WBNB

RUN DATE: 20-JAN-97
TIME 12:52:49
PAGE 5

INCREMENTAL INVESTMENTS - DURATION

DISTANCE BAND	RP	-----SWITCHING-----			-----TRUNKING-----		
		EO	TDM	MEAS	FAC	TERM	
0.0-12.8	08-07	3227.27	739.75	0.00	901.52	633.30	
	TOTAL	3227.27	739.75	0.00	901.52	633.30	
12.9-26.8	08-07	1880.42	753.84	0.00	508.69	493.82	
	TOTAL	1880.42	753.84	0.00	508.69	493.82	
26.9-9999.9	08-07	171.49	83.39	0.00	50.60	49.48	
	TOTAL	171.49	83.39	0.00	50.60	49.48	
ALL	08-07	5279.18	1576.97	0.00	1460.81	1165.60	
	TOTAL	5279.18	1576.97	0.00	1460.81	1165.60	

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OHIO

USAGE COSTS

TAB F

PLANT ACCOUNT	ANNUAL COST	TEL PLANT INDEX	SS7 LINK INVESTMENT	SS7 STP INVESTMENT
10JC	0.00000	1.0000	0.000000	0.000000
117C	0.45000	1.0000	0.000000	0.000000
12C	0.39220	1.0000	0.000000	0.000000
157C	0.38810	1.0000	0.000000	0.000000
167C	0.00000	1.0000	0.000000	0.000000
1C	0.38070	1.0000	0.000000	0.000000
20JC	0.00000	1.0000	0.000000	0.000000
22C	0.40330	1.0000	0.000000	0.000000
257C	0.38810	1.0000	0.000000	0.000000
357C	0.38810	1.0000	0.000000	0.000000
377C	0.32550	1.0000	0.000000	0.000000
3C	0.00000	1.0000	0.000000	0.000000
45C	0.34670	1.0000	0.000000	0.000000
4C	0.25210	1.0000	0.000000	0.000000
57C	0.00000	1.0000	0.000000	0.000000
5C	0.36630	1.0000	0.000000	0.000000
67C	0.00000	1.0000	0.000000	0.000000
77C	0.00000	1.0000	0.000000	0.000000
812C	0.31300	1.0000	0.000000	0.000000
822C	0.29830	1.0000	0.000000	0.000000
845C	0.27240	1.0000	0.000000	0.000000
85C	0.26890	1.0000	0.000000	0.000000

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Source
 1996 Annual Change Percentages
 IntraState Oh DA, dated 1/17/96

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DATA YEARS

Usage Year: 1995
Facility Year: 1995
Facility Investment Year: 1995

PARAMETERS

Max. Pt-Pt Air Distance: 1000
Global Link Overflow Factor: 0.15
Trunk Utilisation Factor: 0.85
Stimulation Rate: 0.1
Average Trunking SCCS: 10
Land Plant Account: 20JC
Building Plant Account: 10JC

NCT Values: Per Message

ADDITIONAL RUN-TIME PARAMETERS

Weighted Switch Calculation
Trunk Group Busy Hour
Increase Trunks When Usage Increases
Decrease Trunks When Usage Decreases
Apply Inflation Factors to Switch Technology
Use Replacement Switch Technology
Average Trunks By Traffic Use Codes

STAB

0

Y

Y

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COMMON/DEDICATED SPLIT

(Access Studies Only)

Tandem To POT Common
End Office To POT Dedicated
End Office To Tandem Common

DIALING DATA

Number of Digits Sent Per Outgoing Call 7
Number of Digits Received 5
Average Ringing Time Per Terminating Call (In Sec) 14.00
Average Dialing Time Digit (In Sec) 1.50
Dialtone time (In Sec)

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***** SWITCH MIX *****

MIXSWQPT	SWQPT	WEIGHT
-----	-----	-----
MX0	5X	1.0000

***** FACILITY SUBSTITUTION - FACILITIES *****

SUBSTITUTE	CURRENT FACILITY EQUIPMENT
FAC EQP	[-----]
-----	[-----]
T3X	T1 TIC T1U T1Z T2X T3
	T3U

***** FACILITY SUBSTITUTION - TERMINATIONS *****

SUBSTITUTE	CURRENT TERMINATION EQUIPMENT
FAC EQP	[-----]
-----	[-----]

DAC2	DAC1					
DP1	DEM	DBQ	DCT2	DP12	DTU	
	DT	FD1	MDT1			
DX4	D3A	D4A1	D4A2	D4A3	DX5	
FTU	RDS	RDS3				
MLC	MLCA	MY13	MYX4	MY12	MY33	MY34
MY13	DCR1	X13L				
POX	POT					

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SERVICE GROUP NAME: LOCAL

SERVICE NAME(s): LOCAL

DISTANCE BANDS

1	12.9	8	9999.9	15	9999.9
2	24.9	9	9999.9	16	9999.9
3	9999.9	10	9999.9	17	9999.9
4	9999.9	11	9999.9	18	9999.9
5	9999.9	12	9999.9	19	9999.9
6	9999.9	13	9999.9	20	9999.9
7	9999.9	14	9999.9		

Distance Calc: Wire Center

Non-Conversation Time: Both

Remote Coordinates: Remote

Grade Of Service:

DF: 0.010

HU: 0.010

Unbilical Investment: Pac/Term

Basic Service Type: End to End

Number of Annual Business Days: 255

SERVICE GROUP NAME: TOLL

SERVICE NAME(s): CORRIDOR, DDS, OF-ASSIST

DISTANCE BANDS

1	9999.9	8	9999.9
2	9999.9	9	9999.9
3	9999.9	10	9999.9
4	9999.9	11	9999.9
5	9999.9	12	9999.9
6	9999.9	13	9999.9
7	9999.9	14	9999.9

Distance Calc: Rate Center

Non-Conversation Time: Both

Remote Coordinates: Remote

Grade Of Service:

DF: 0.010

HU: 0.010

Unbilical Investment: Pac/Term

Basic Service Type: End to End

Number of Annual Business Days: 250

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FACILITY EQUIPMENT: UNIT INVESTMENT PER CIRCUIT MILE

FAC	EQP	PLAC	UNIT INV	PLAC	UNIT INV	PLAC	UNIT INV
Q12	1C		0.1256	4C		0.5529	822C 0.6392
	85C		1.0568				
T3X	1C		1.5070	4C		6.6353	822C 7.6707
	85C		12.6819				
T4X	1C		0.1674	4C		0.87373	822C 0.8523
	85C		1.4091				
T7X	1C		0.0419	4C		0.1843	822C 0.2131
	85C		0.3523				

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TERMINATION EQUIPMENT: UNIT INVESTMENT PER TERMINATION

TERM EQ	PLAC	UNIT INV	PLAC	UNIT INV	PLAC	UNIT INV
DAC2	10JC	0.0000	20JC	0.0000	357C	51.9077
DVI	10JC	0.0000	20JC	0.0000	357C	0.0000
EX4	10JC	0.0000	20JC	0.0000	357C	17.4353
FJ33	10JC	0.0000	20JC	0.0000	357C	7.0485
FTG	10JC	0.0000	20JC	0.0000	357C	7.4102
FTG2	10JC	0.0000	20JC	0.0000	357C	0.0000
MLC	10JC	0.0000	20JC	0.0000	357C	0.0000
MY13	10JC	0.0000	20JC	0.0000	357C	17.1512
POI	10JC	0.0000	20JC	0.0000	357C	0.0000

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NO	TABLE ITEM	VALUE
--	-----	-----
1	Digits per Standard Originating Call	7.0000
2	Digits per Standard Local Outgoing Call	5.0000
3	Digits per Local Incoming Call	5.0000
4	Digits per Standard Tandem Outgoing Call	5.0000
5	Digits per Standard Tandem Incoming Call	5.0000
6	Standard Ring Time per Terminating Call (secs)	14.0000

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REPORT HEADER CUSTOMIZATION

DATABASE : Yes RUN DATE : Yes
VERSION : Yes RUN TIME : Yes
CALC METHOD: Yes PAGE NUMBER: Yes

PARAMETERS - INCLUDE STUDY AND SERVICE PARAMETERS: No

HOUE	RATE PERIOD	RATE PERIOD	W/E FACTOR	RATE PERIOD	W/E FACTOR
8am	1	1	1.000	18	0.000
9am	1	2	0.000	19	0.000
10am	1	3	0.000	20	0.000
11am	1	4	0.000	21	0.000
12pm	1	5	0.000	22	0.000
1pm	1	6	0.000	23	0.000
2pm	1	7	0.000	24	0.000
3pm	1	8	0.000		0.000
4pm	1	9	0.000		0.000
5pm	1	10	0.000		0.000
6pm	1	11	0.000		0.000
7pm	1	12	0.000		0.000
8pm	1	13	0.000		0.000
9pm	1	14	0.000		0.000
10pm	1	15	0.000		0.000
11pm	1	16	0.000		0.000
LUMP	1	17	0.000		0.000

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PROPRIETARY STATEMENT - CALCULATOR REPORTS

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PROPRIETARY STATEMENT - DATABASE MODEL REPORTS

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ORDER SECTIONS

Incremental Minutes and Messages

Traffic Sensitive Unit Cost - Setup

Traffic Sensitive Unit Cost - Duration

Unit Cost Summary

Incremental Investments - Setup

Incremental Investments - Duration

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PLANT ACCOUNT	ANNUAL COST	TEL PLANT INDEX	SS7 LINK INVESTMENT	SS7 STP INVESTMENT
10JC	0.29370	1.0000	0.000000	0.000000
117C	0.45000	1.0000	0.000000	0.000000
12C	0.39220	1.0000	0.000000	0.000000
157C	0.38810	1.0000	0.000000	0.000000
167C	0.00000	1.0000	0.000000	0.000000
1C	0.38070	1.0000	0.000000	0.000000
20JC	0.23220	1.0000	0.000000	0.000000
22C	0.40330	1.0000	0.000000	0.000000
257C	0.38810	1.0000	0.000000	0.000000
357C	0.38810	1.0000	0.000000	0.000000
377C	0.32550	1.0000	0.000000	0.000000
3C	0.00000	1.0000	0.000000	0.000000
45C	0.34670	1.0000	0.000000	0.000000
4C	0.25210	1.0000	0.000000	0.000000
57C	0.00000	1.0000	0.000000	0.000000
5C	0.36630	1.0000	0.000000	0.000000
67C	0.00000	1.0000	0.000000	0.000000
77C	0.00000	1.0000	0.000000	0.000000
812C	0.31300	1.0000	0.000000	0.000000
822C	0.29830	1.0000	0.000000	0.000000
845C	0.27240	1.0000	0.000000	0.000000
85C	0.26890	1.0000	0.000000	0.000000

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Source
 1996 Annual Change Percentages
 Intrastate, Sh, IA dated 1/17/97

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 AND AUTHORIZED CLIENTS

DATA YEARS

Usage Year: 1995
Facility Year: 1995
Facility Investment Year: 1995

PARAMETERS

Max. Pt-Pt Air Distance: 1000
Global Link Overflow Factor: 0.15
Trunk Utilization Factor: 0.85
Stimulation Rate: 0.1
Average Trunking ECCS: 10
Land Plant Account: 20JC
Building Plant Account: 10JC

NCT Values: Per Message

ADDITIONAL RUN-TIME PARAMETERS

Weighted Switch Calculation
Trunk Group Busy Hour
Increase Trunks When Usage Increases
Decrease Trunks When Usage Decreases
Apply Inflation Factors to Switch Technology
Use Replacement Switch Technology
Average Trunks By Traffic Use Codes

STAB

0

Y

Y

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COMMON/DEDICATED SPLIT

(Access Studies Only)

Tandem To POT Common
End Office To POT Dedicated
End Office To Tandem Common

DIALING DATA

Number of Digits Sent Per Outgoing Call
Number of Digits Received
Average Ringing Time Per Terminating Call (In Sec)
Average Dialing Time Digit (In Sec)
Alone time (In Sec)

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***** SWITCH MIX *****

MIXSWQPT	SWQPT	WEIGHT
-----	-----	-----
MX0	5EN	1.0000

***** FACILITY SUBSTITUTION - FACILITIES *****

SUBSTITUTE	CURRENT FACILITY EQUIPMENT
PAC EQP	[-----]
-----	[-----]
T3X	T1 TIC T1U T1Z T2X T3
	T3U

***** FACILITY SUBSTITUTION - TERMINATIONS *****

SUBSTITUTE	CURRENT TERMINATION EQUIPMENT
PAC EQP	[-----]
-----	[-----]
DAC2	DAC1
DP1	DBR DBQ DCT2 DP1Z DT FDI MDTI
DX4	D3A D4A1 D4A2 D4A3 D4B3 DX5
FTG	RDS RDS3
MLC	MLCA MW13 MW24 MY13 MY33 MY34
MY13	DCR1 X13L
POI	POT

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SERVICE GROUP NAME: LOCAL

SERVICE NAME(s): LOCAL

DISTANCE BANDS

1	12.9	8	9999.9	15	9999.9
2	26.9	9	9999.9	16	9999.9
3	9999.9	10	9999.9	17	9999.9
4	9999.9	11	9999.9	18	9999.9
5	9999.9	12	9999.9	19	9999.9
6	9999.9	13	9999.9	20	9999.9
7	9999.9	14	9999.9		

Distance Calc: Wire Center

Remote Coordinates: Remote

Unbilical Investment: Fac/Term

Basic Service Type: End to End

Non-Conversation Time: Both

Grade Of Service:

DF: 0.010

HU: 0.010

Number of Annual Business Days: 255

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SERVICE GROUP NAME: TOLL

SERVICE NAME(s): CORRIDOR, DDD, OP-ASSIST

DISTANCE BANDS

1	9999.9	8	9999.9	15	9999.9
2	9999.9	9	9999.9	16	9999.9
3	9999.9	10	-9999.9	17	9999.9
4	9999.9	11	9999.9	18	9999.9
5	9999.9	12	9999.9	19	9999.9
6	9999.9	13	9999.9	20	9999.9
7	9999.9	14	9999.9		

Distance Calc: Rate Center

Remote Coordinates: Remote

Unbilical Investment: Fac/Term

Basic Service Type: End to End

Non-Conversation Time: Both

Grade Of Service:

DF: 0.010

HU: 0.010

Number of Annual Business Days: 250

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FACILITY EQUIPMENT: UNIT INVESTMENT PER CIRCUIT MILE

FAC	EQP	PLAC	UNIT INV	PLAC	UNIT INV	PLAC	UNIT INV
012	1C	0.1256	4C	0.5529	822C	0.6392	
	85C	1.0568					
T3X	1C	1.5070	4C	6.6353	822C	7.6707	
	85C	12.6819					
T4X	1C	0.1674	4C	0.7373	822C	0.8523	
	85C	1.4091					
T7X	1C	0.0419	4C	0.1843	822C	0.2131	
	85C	0.3523					

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TERMINATION EQUIPMENT: UNIT INVESTMENT PER TERMINATION

TERM EQ	PLAC	UNIT INV	PLAC	UNIT INV	PLAC	UNIT INV
-----	----	-----	----	-----	----	-----
DAC2	10JC	15.5010	20JC	0.6596	357C	117.7887
DFI	10JC	0.0000	20JC	0.0000	357C	0.0000
DX4	10JC	5.2066	20JC	0.2216	357C	39.5641
FJ33	10JC	2.1049	20JC	0.0896	357C	15.9945
FT0	10JC	2.2129	20JC	0.0942	357C	16.8151
FTG2	10JC	2.3620	20JC	0.1005	357C	17.9487
MIC	10JC	5.3405	20JC	0.2273	357C	39.5641
MY13	10JC	5.1218	20JC	0.2179	357C	38.4342
POI	10JC	0.0000	20JC	0.0000	357C	0.0000

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NO	TABLE ITEM	VALUE
--	-----	-----
1	Digits per Standard Originating Call	7.0000
2	Digits per Standard Local Outgoing Call	7.0000
3	Digits per Local Incoming Call	5.0000
4	Digits per Standard Tandem Outgoing Call	8.0000
5	Digits per Standard Tandem Incoming Call	8.0000
6	Standard Ring Time per Terminating Call (CCS)	14.0000

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REPORT HEADER CUSTOMIZATION

DATABASE : Yes RUN DATE : Yes
VERSION : Yes RUN TIME : Yes
CALC METHOD: Yes PAGE NUMBER: Yes

PARAMETERS - INCLUDE STUDY AND SERVICE PARAMETERS: No

HOOR	RATE PERIOD	RATE PERIOD	W/E FACTOR	RATE PERIOD	W/E FACTOR
8am	1	1	1.000	18	0.000
9am	1	2	0.000	19	0.000
10am	1	3	0.000	20	0.000
11am	1	4	0.000	21	0.000
12pm	1	5	0.000	22	0.000
1pm	1	6	0.000	23	0.000
2pm	1	7	0.000	24	0.000
3pm	1	8	0.000	25	0.000
4pm	1	9	0.000		
5pm	1	10	0.000		
6pm	1	11	0.000		
7pm	1	12	0.000		
8pm	1	13	0.000		
9pm	1	14	0.000		
10pm	1	15	0.000		
11pm	1	16	0.000		
LUMP	1	17	0.000		

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PROPRIETARY STATEMENT - CALCULATOR REPORTS

PROPRIETARY - BELLCORE AND AUTHORIZED CLIENTS ONLY

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PROPRIETARY STATEMENT - DATABASE MODULE REPORTS

PROPRIETARY - BELLCORE AND AUTHORIZED CLIENTS

ORDER SECTIONS

Incremental Minutes and Messages
Traffic Sensitive Unit Cost - Setup
Traffic Sensitive Unit Cost - Duration
Unit Cost Summary
Incremental Investments - Setup
Incremental Investments - Duration

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INCREMENTAL**NCAT SUMMARY**fill=actual, inv=actual ***TERMINATION EQUIPMENT: UNIT INVESTMENT PER TERMINATION (Per DS0)**

* (excludes Land, Bldg, Power & Comm. Equip)

	357C ELCTRN	10JC BLDG	20JC LAND	
1) POI	0.0000	0.0000	0.0000	1
SPOI				
POT				
2) DFI	0.0000	0.0000	0.0000	2
DF1, DI2, FD1				
DBH, DBQ				
DCT2, DIU				
DT, NDTI				
3) DX4				
DX5, D3A				
D4A1, D4A2				
D4A3, D4B3				
2 DSX-1	2.2252	0.0000	0.0000	3
1.5 DSX-3	0.8522	0.0000	0.0000	4
1 DACS 3/1	14.3578	0.0000	0.0000	5
TOTAL	17.4353	0.0000	0.0000	6
4) DAC2				
DAC1				
1 DACS 1/0	49.6824	0.0000	0.0000	7
2 DSX-1	2.2252	0.0000	0.0000	8
TOTAL	51.9077	0.0000	0.0000	9
5) FTG				
RD5, RDS & 3				
1 417 MB	6.7713	0.0000	0.0000	10
1 DSX-3	0.5682	0.0000	0.0000	11
1 LGX-3	0.0707	0.0000	0.0000	12
TOTAL	7.4102	0.0000	0.0000	13
6) FJ33				
1 FLM 150	6.4097	0.0000	0.0000	14
1 DSX-3	0.5682	0.0000	0.0000	15
1 LGX-3	0.0707	0.0000	0.0000	16
TOTAL	7.0485	0.0000	0.0000	17
7) FTG2				
1 1.7 GB	7.3415	0.0000	0.0000	18
1 DSX-3	0.5682	0.0000	0.0000	19
1 LGX-3	0.0707	0.0000	0.0000	20
TOTAL	7.9097	0.0000	0.0000	21
8) M1C				
M1CA, MW13				
MWX4, MY12				
MY33, MY34				
1 180 MB	17.2446	0.0000	0.0000	22
1 DSX-3	0.5682	0.0000	0.0000	23
1 LGX-3	0.0707	0.0000	0.0000	24
TOTAL	17.8835	0.0000	0.0000	25
9) MY13				
DCR1, X13L				
1 MUX 3/1	14.3578	0.0000	0.0000	26
2 DSX-1	2.2252	0.0000	0.0000	27
1 DSX-3	0.5682	0.0000	0.0000	28
TOTAL	17.1512	0.0000	0.0000	29

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Description: 180 MB System (DDM 2000) - Per DS3
 - Optically carries 3 DS3's
 (Nick Barone - Net Eng)

06/25/96
 05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 2, WS 20, (yellow) / 2	\$7,739.200
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$9,935.585
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$9,935.585
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$9,935.585	\$0.000	\$0.000
11) DS3 UTIL.	.7778	/1	/1
12) DS3 UTIL. INV.	\$10,458.510	\$0.000	\$0.000
13) # OF DS1'S IN DS3	128	128	
14) DS1 INV.	\$373.518	\$0.000	\$0.000
15) DS1 UTIL.	.71	/1	
16) DS1 UTIL. INV.	\$393.177	\$0.000	\$0.000
17) # OF DS0'S IN DS1	124	124	
18) DS0 INV.	\$16.382	\$0.000	\$0.000
19) DS0 UTIL.	.802	/1	/1
20) DS0 UTIL. INV.	\$17.245	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.
 Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).
 Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.
 Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: 417 MB System - Per DS3

06/25/96
05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 2, WS 27, Line 1	\$3,038.890
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$3,901.327
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$3,901.327
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$3,901.327	\$0.000	\$0.000
11) DS3 UTIL.	<u>.7778</u>	<u>/1</u>	<u>/1</u>
12) DS3 UTIL. INV.	\$4,106.660	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>/28</u>	<u>/28</u>	<u>/28</u>
14) DS1 INV.	\$146.666	\$0.000	\$0.000
15) DS1 UTIL.	<u>/71</u>	<u>/1</u>	<u>/1</u>
16) DS1 UTIL. INV.	\$154.386	\$0.000	\$0.000
17) #OF DS0'S IN DS1	<u>/24</u>	<u>/24</u>	<u>/24</u>
18) DS0 INV.	\$6.433	\$0.000	\$0.000
19) DS0 UTIL.	<u>/802</u>	<u>/1</u>	<u>/1</u>
20) DS0 UTIL. INV.	\$6.771	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: 1.7 GB System - Per DS3

06/25/96
05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 2, WS 36	\$3,294.810
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$4,229.877
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$4,229.877
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$4,229.877	\$0.000	\$0.000
11) DS3 UTIL.	<u>.7778</u>	<u>/1</u>	<u>/1</u>
12) DS3 UTIL. INV.	\$4,452.502	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$159.018	\$0.000	\$0.000
15) DS1 UTIL.	<u>.71</u>	<u>/1</u>	<u>/1</u>
16) DS1 UTIL. INV.	\$167.387	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$6.974	\$0.000	\$0.000
19) DS0 UTIL.	<u>.802</u>	<u>/1</u>	<u>/1</u>
20) DS0 UTIL. INV.	\$7.342	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DACS 3/1 Multiplexer - Per DS3

06/25/96

05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 4, WS 10a	\$6,443.640
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$8,272.345
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$8,272.345
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$8,272.345	\$0.000	\$0.000
11) DS3 UTIL.	<u>.7778</u>	<u>/1</u>	<u>/1</u>
12) DS3 UTIL. INV.	\$8,707.732	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$310.990	\$0.000	\$0.000
15) DS1 UTIL.	<u>.71</u>	<u>/1</u>	<u>/1</u>
16) DS1 UTIL. INV.	\$327.358	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$13.640	\$0.000	\$0.000
19) DS0 UTIL.	<u>.802</u>	<u>/1</u>	<u>/1</u>
20) DS0 UTIL. INV.	\$14.358	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DSX-1 (Per DS3)

06/25/96
05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 3, WS 9, Line 133, Col C/(Col A*672)	\$499.333
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$641.044
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$641.044
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$641.044	\$0.000	\$0.000
11) DS3 UTIL	<u>1.7778</u>	<u>1</u>	<u>1</u>
12) DS3 UTIL INV.	\$674.783	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$24.099	\$0.000	\$0.000
15) DS1 UTIL	<u>1.71</u>	<u>1</u>	<u>1</u>
16) DS1 UTIL INV.	\$25.368	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$1.057	\$0.000	\$0.000
19) DS0 UTIL	<u>1.802</u>	<u>1</u>	<u>1</u>
20) DS0 UTIL INV.	\$1.113	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DSX-3 (Per DS3)

06/25/96
05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 3, WS 9, Line 138, Col C/(Col A*672)	\$254.986
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$327.351
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$327.351
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$327.351	\$0.000	\$0.000
11) DS3 UTIL.	<u>1.7778</u>	<u>1</u>	<u>1</u>
12) DS3 UTIL. INV.	\$344.580	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$12.306	\$0.000	\$0.000
15) DS1 UTIL.	<u>1.71</u>	<u>1</u>	<u>1</u>
16) DS1 UTIL. INV.	\$12.954	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$0.540	\$0.000	\$0.000
19) DS0 UTIL.	<u>1.802</u>	<u>1</u>	<u>1</u>
20) DS0 UTIL. INV.	\$0.568	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: LGX-3 (Per DS3)

06/25/96
05:00 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 3, WS 9, Line 164, Col C/(Col A*672)	\$31.728
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$40.733
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$40.733
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1992)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$40.733	\$0.000	\$0.000
11) DS3 UTIL.	<u>1.7778</u>	<u>1</u>	<u>1</u>
12) DS3 UTIL. INV.	\$42.877	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$1.531	\$0.000	\$0.000
15) DS1 UTIL.	<u>1.71</u>	<u>1</u>	<u>1</u>
16) DS1 UTIL. INV.	\$1.612	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$0.067	\$0.000	\$0.000
19) DS0 UTIL.	<u>1.802</u>	<u>1</u>	<u>1</u>
20) DS0 UTIL. INV.	\$0.071	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DACS 1/0 MUX (Per DS3)

06/25/96
05:00 PM

Description	Sources	Total
1) Material Price	1993 DS1 Access Study Tab 4, WS 11 (33.18*672)	\$22,296.960
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$28,624.837
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$28,624.837
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$28,624.837	\$0.000	\$0.000
11) DS3 UTIL.	<u>1,7778</u>	<u>1</u>	<u>1</u>
12) DS3 UTIL. INV.	\$30,131.408	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$1,076.122	\$0.000	\$0.000
15) DS1 UTIL.	<u>1,71</u>	<u>1</u>	<u>1</u>
16) DS1 UTIL. INV.	\$1,132.760	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$47.198	\$0.000	\$0.000
19) DS0 UTIL.	<u>1,802</u>	<u>1</u>	<u>1</u>
20) DS0 UTIL. INV.	\$49.682	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: FLM 150 - Equipped as an OC12 (/12 - Per DS3)

06/25/96
05:10 PM

Description	Sources	Total
1) Material Price	See WS 10 (\$40,287 / 12)	3357.25
2) Install Factor	Jim Sparks Network Eng	1.1000
3) Installed Investment	Line 1*Line 2	\$3,692.975
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.0000
5) Total Loaded Investment	Line 3*Line 4	\$3,692.975
6) Land Factor	Factor File (1994)	0.0000
7) Land Investment (20jc)	Line 5*Line 6	\$0.000
8) Bldg Factor	Factor File (1994)	0.0000
9) Bldg Investment (10jc)	Line 5*Line 8	\$0.000

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$3,692.975	\$0.000	\$0.000
11) DS3 UTIL.	<u>1.7778</u>	<u>1</u>	<u>1</u>
12) DS3 UTIL. INV.	\$3,887.342	\$0.000	\$0.000
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$138.834	\$0.000	\$0.000
15) DS1 UTIL.	<u>1.71</u>	<u>1</u>	<u>1</u>
16) DS1 UTIL. INV.	\$146.141	\$0.000	\$0.000
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$6.089	\$0.000	\$0.000
19) DS0 UTIL.	<u>1.802</u>	<u>1</u>	<u>1</u>
20) DS0 UTIL. INV.	\$6.410	\$0.000	\$0.000

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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NCAT SUMMARY

AVERAGE

all-actual, inc-actual

TERMINATION EQUIPMENT: UNIT INVESTMENT PER TERMINATION (Per DS0)

	357C ELCTRN	10JC BLDG	20JC LAND	
1) POI SPOI POT	0.0000	0.0000	0.0000	1
2) DFI DFI, DI2, FD1 DBH, DBQ DCT2, DIU DT, NDTI	0.0000	0.0000	0.0000	2
3) DX4 DX5, D3A D4A1, D4A2 D4A3, D4B3 2 DSX-1 1.5 DSX-3 1 DACS 3/1 TOTAL	5.0495 1.9339 32.5807 39.5641	0.6645 0.2545 4.2876 5.2066	0.0283 0.0108 0.1825 0.2216	3 4 5 6
4) DAC2 DAC1 1 DACS 1/0 2 DSX-1 TOTAL	112.7392 5.0495 117.7887	14.8365 0.6645 15.5010	0.6313 0.0283 0.6596	7 8 9
5) FTG RD5, RDS & 3 1 417 MB 1 DSX-3 1 LGX-3 TOTAL	15.3654 1.2893 0.1604 16.8151	2.0221 0.1697 0.0211 2.2129	0.0860 0.0072 0.0009 0.0942	10 11 12 13
6) FJ33 1 FLM 150 1 DSX-3 1 LGX-3 TOTAL	14.5448 1.2893 0.1604 15.9945	1.9141 0.1697 0.0211 2.1049	0.0815 0.0072 0.0009 0.0896	14 15 16 17
7) FTG2 1 1.7 GB 1 DSX-3 1 LGX-3 TOTAL	16.5594 1.2893 0.1604 17.9487	2.1924 0.1697 0.0211 2.3620	0.0933 0.0072 0.0009 0.1005	18 19 20 21
8) M1C M1CA, MW13 MWX4, MY12 MY33, MY34 1 180 MB 1 DSX-3 1 LGX-3 TOTAL	39.1314 1.2893 0.1604 40.5811	5.1497 0.1697 0.0211 5.3405	0.2191 0.0072 0.0009 0.2273	22 23 24 25
9) MY13 DCR1, X13L 1 MUX 3/1 2 DSX-1 1 DSX-3 TOTAL	32.5807 5.0495 1.2893 38.9195	4.2876 0.6645 0.1697 5.1218	0.1825 0.0283 0.0072 0.2179	26 27 28 29

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Description: 180 MB System (DDM 2000) - Per DS3
 - Optically carries 3 DS3's
 (Nick Barone - Net Eng)

11/28/95
 04:29 PM

Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 2, WS 20, (yellow) / 2	\$7,739.200
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$9,935.585
4) Pwr & Crmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$11,646.493
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$65.220
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$1,532.678

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$11,646.493	\$65.220	\$1,532.678
11) DS3 UTIL	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV	\$14,973.634	\$83.852	\$1,970.530
13) # OF DS1'S IN DS3	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>
14) DS1 INV.	\$534.773	\$2.995	\$70.376
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV	\$753.201	\$4.218	\$99.121
17) # OF DS0'S IN DS1	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>
18) DS0 INV.	\$31.383	\$0.176	\$4.130
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV	\$39.131	\$0.219	\$5.150

Sources:

Line 10 - See Lines 5, 7 & 9.
 Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).
 Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.
 Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: 417 MB System - Per DS3

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Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 2, WS 27, Line 1	\$3,038.890
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$3,901.327
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$4,573.135
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$25.610
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$601.825

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$4,573.135	\$25.610	\$601.825
11) DS3 UTIL.	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV.	\$5,879.578	\$32.926	\$773.752
13) # OF DS1'S IN DS3	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>
14) DS1 INV.	\$209.985	\$1.176	\$27.634
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV.	\$295.753	\$1.656	\$38.521
17) # OF DS0'S IN DS1	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>
18) DS0 INV.	\$12.323	\$0.069	\$0.822
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV.	\$15.365	\$0.086	\$2.022

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: 1.7 GB System - Per DS3

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Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 2, WS 36	\$3,294.810
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$4,229.877
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$4,958.262
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$27.766
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$652.507

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$4,958.262	\$27.766	\$652.507
11) DS3 UTIL.	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV	\$6,374.726	\$35.698	\$838.914
13) # OF DS1'S IN DS3	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>
14) DS1 INV.	\$227.669	\$1.275	\$29.961
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV	\$320.660	\$1.796	\$42.199
17) # OF DS0'S IN DS1	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>
18) DS0 INV.	\$13.361	\$0.075	\$1.758
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV	\$16.659	\$0.093	\$2.192

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DACS 3/1 Multiplexer - Per DS3

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Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 4, WS 10a	\$6,443.640
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$8,272.345
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$9,696.843
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$54.302
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$1,276.105

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$9,696.843	\$54.302	\$1,276.105
11) DS3 UTIL.	<u>.7778</u>	<u>.7778</u>	<u>.7778</u>
12) DS3 UTIL. INV	\$12,467.013	\$69.815	\$1,640.659
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$445.250	\$2.493	\$58.595
15) DS1 UTIL.	<u>.71</u>	<u>.71</u>	<u>.71</u>
16) DS1 UTIL. INV	\$627.113	\$3.512	\$62.528
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$26.130	\$0.146	\$3.439
19) DS0 UTIL.	<u>.802</u>	<u>.802</u>	<u>.802</u>
20) DS0 UTIL. INV	\$32.581	\$0.182	\$4.288

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DSX-1 (Per DS3)

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Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 3, WS 9, Line 133, Col C/(Col A*672)	\$499.333
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$641.044
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$751.432
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$4.208
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$98.888

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$751.432	\$4.208	\$98.888
11) DS3 UTIL.	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV.	\$966.099	\$5.410	\$127.139
13) # OF DS1'S IN DS3	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>
14) DS1 INV.	\$34.504	\$0.193	\$4.540
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV.	\$48.597	\$0.272	\$6.395
17) # OF DS0'S IN DS1	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>
18) DS0 INV.	\$2.025	\$0.011	\$0.286
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV.	\$2.525	\$0.014	\$0.332

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DSX-3 (Per DS3)

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Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 3, WS 9, Line 138, Col C/(Col A*672)	\$254.986
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$327.351
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$383.721
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$2.149
8) Bldg Factor	Factor File (1994)	0.1315
9) Bldg Investment (10jc)	Line 5*Line 8	\$50.498

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$383.721	\$2.149	\$50.498
11) DS3 UTIL.	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV	\$493.342	\$2.763	\$64.924
13) # OF DS1'S IN DS3	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>
14) DS1 INV.	\$17.619	\$0.099	\$2.319
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV	\$24.816	\$0.139	\$3.266
17) #OF DS0'S IN DS1	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>
18) DS0 INV.	\$1.034	\$0.006	\$0.136
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV	\$1.289	\$0.007	\$0.170

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: LGX-3 (Per DS3)

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Description	Sources	Total
1) Material Price	1993 DS3 Access Study Tab 3, WS 9, Line 164, Col C/(Col A*672)	\$31.728
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$40.733
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$47.747
6) Land Factor	Factor File (199)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$0.267
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$6.284

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$47.747	\$0.267	\$6.284
11) DS3 UTIL.	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV	\$61.387	\$0.344	\$8.079
13) # OF DS1'S IN DS3	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>
14) DS1 INV.	\$2.192	\$0.012	\$0.289
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV	\$3.088	\$0.017	\$0.406
17) #OF DS0'S IN DS1	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>
18) DS0 INV.	\$0.129	\$0.001	\$0.017
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV	\$0.160	\$0.001	\$0.021

Sources:

- Line 10 - See Lines 5, 7 & 9.
- Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).
- Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.
- Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: DACS 1/0 MUX (Per DS3)

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Description	Sources	Total
1) Material Price	1993 DS1 Access Study Tab 4, WS 11 (33.18*672)	\$22,296.960
2) Install Factor	See 1995 Factor File Install Factor - Total 357C	1.2838
3) Installed Investment	Line 1*Line 2	\$28,624.837
4) Pwr & Cmn Eqpt Factor	Factor File (1994)	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$33,554.034
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$187.903
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$4,415.711

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$33,554.034	\$187.903	\$4,415.711
11) DS3 UTIL	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL INV	\$43,139.669	\$241.582	\$5,677.180
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$1,540.702	\$8.628	\$202.758
15) DS1 UTIL	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL INV	\$2,170.003	\$12.152	\$285.572
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$90.417	\$0.506	\$11.899
19) DS0 UTIL	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL INV	\$112.739	\$0.631	\$14.836

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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Description: FLM 150 - Equipped as an OC12 (/12 - Per DS3)

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Description	Sources	Total
1) Material Price	See WS 10 (\$40,287 / 12) <i>241 2000 line</i>	3357.25
2) Install Factor	Jim Sparks Network Eng	1.1000
3) Installed Investment	Line 1*Line 2	\$3,692.975
4) Pwr & Cmn Eqpt Factor	Factor File (1994) <i>1.1727</i>	1.1722
5) Total Loaded Investment	Line 3*Line 4	\$4,328.905
6) Land Factor	Factor File (1994)	0.0056
7) Land Investment (20jc)	Line 5*Line 6	\$24.242
8) Bldg Factor	Factor File (1994)	0.1316
9) Bldg Investment (10jc)	Line 5*Line 8	\$569.684

	Electronics 357C	Land 20JC	Building 10JC
10) DS3 INV.	\$4,328.905	\$24.242	\$569.684
11) DS3 UTIL.	<u>1.7778</u>	<u>1.7778</u>	<u>1.7778</u>
12) DS3 UTIL. INV.	\$5,565.576	\$31.167	\$732.430
13) # OF DS1'S IN DS3	<u>128</u>	<u>128</u>	<u>128</u>
14) DS1 INV.	\$198.771	\$1.113	\$26.158
15) DS1 UTIL.	<u>1.71</u>	<u>1.71</u>	<u>1.71</u>
16) DS1 UTIL. INV.	\$279.959	\$1.568	\$36.843
17) # OF DS0'S IN DS1	<u>124</u>	<u>124</u>	<u>124</u>
18) DS0 INV.	\$11.665	\$0.065	\$1.535
19) DS0 UTIL.	<u>1.802</u>	<u>1.802</u>	<u>1.802</u>
20) DS0 UTIL. INV.	\$14.545	\$0.081	\$1.914

Sources:

Line 10 - See Lines 5, 7 & 9.

Line 11 - Assumes 417 system usage, 7 of 9 DS3's used (.7778).

Line 15 - See EN4.09 Vol 6, Tab 1, Section 2, Page 1 - Yellow.

Line 19 - See EN4.09 Vol 6, Tab 1, Section 1, Page 1 - Yellow.

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NCAT - IOF PER ROUTE MILE INVESTMENT

fill=actual, inp=actual

IOF INVESTMENT
- DSO

A	T3X B	T4X C	O12 D	T7X E	TOTAL F=B+C+D+E
(85C)	12.6819	1.4091	1.0568	0.3523	14.4433
(822C)	7.6707	0.8523	0.6392	0.2131	8.7361
(1C)	1.5070	0.1674	0.1256	0.0419	1.7163
(4C)	6.6353	0.7373	0.5529	0.1843	7.5589
	28.4950	3.1661	2.3746	0.7915	

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SOURCES: COL B, - SEE WS 2, LINE 11.
COL C, - SEE WS 2, LINE 22.
COL D, - SEE WS 2, LINE 33.
COL E, - SEE WS 2, LINE 44.

PER ROUTE MILE INVESTMENT

- DS3
- DS1
- DS0

WS 2

	88C	822C	1C	4C	
DS3 INV.	\$3,774,484	\$2,283,008	\$448,820	\$1,974,837	1
DS3 UTIL	<u>7778</u>	<u>7778</u>	<u>7778</u>	<u>7778</u>	2
DS3 UTIL INV.	\$4,852,744	\$2,935,212	\$578,662	\$2,539,004	3
# OF DS1'S IN DS3	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	4
DS1 INV.	\$173,312	\$104,829	\$20,385	\$80,678	5
DS1 UTIL	<u>71</u>	<u>71</u>	<u>71</u>	<u>71</u>	6
DS1 UTIL INV.	\$244,102	\$147,646	\$29,007	\$127,718	7
# OF DS0'S IN DS1	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	8
DS0 INV.	\$10,171	\$6,152	\$1,208	\$5,322	9
DS0 UTIL	<u>802</u>	<u>802</u>	<u>802</u>	<u>802</u>	10
DS0 UTIL INV.	\$12,882	\$7,671	\$1,507	\$6,636	11

	88C	822C	1C	4C	
DS3 INV.	\$419,385	\$253,686	\$46,836	\$219,438	12
DS3 UTIL	<u>7778</u>	<u>7778</u>	<u>7778</u>	<u>7778</u>	13
DS3 UTIL INV.	\$538,194	\$328,136	\$64,072	\$282,112	14
# OF DS1'S IN DS3	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	15
DS1 INV.	\$19,257	\$11,848	\$2,288	\$10,078	16
DS1 UTIL	<u>71</u>	<u>71</u>	<u>71</u>	<u>71</u>	17
DS1 UTIL INV.	\$27,122	\$16,405	\$3,223	\$14,191	18
# OF DS0'S IN DS1	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	19
DS0 INV.	\$1,130	\$0,684	\$0,134	\$0,581	20
DS0 UTIL	<u>802</u>	<u>802</u>	<u>802</u>	<u>802</u>	21
DS0 UTIL INV.	\$1,468	\$0,882	\$0,167	\$0,737	22

	88C	822C	1C	4C	
DS3 INV.	\$314,538	\$190,251	\$37,377	\$184,570	23
DS3 UTIL	<u>7778</u>	<u>7778</u>	<u>7778</u>	<u>7778</u>	24
DS3 UTIL INV.	\$404,385	\$244,601	\$48,054	\$217,384	25
# OF DS1'S IN DS3	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	26
DS1 INV.	\$14,443	\$8,736	\$1,718	\$7,587	27
DS1 UTIL	<u>71</u>	<u>71</u>	<u>71</u>	<u>71</u>	28
DS1 UTIL INV.	\$20,342	\$12,304	\$2,411	\$10,943	29
# OF DS0'S IN DS1	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	30
DS0 INV.	\$0,848	\$0,513	\$0,101	\$0,449	31
DS0 UTIL	<u>802</u>	<u>802</u>	<u>802</u>	<u>802</u>	32
DS0 UTIL INV.	\$1,067	\$0,638	\$0,126	\$0,563	33

	88C	822C	1C	4C	
DS3 INV.	\$104,846	\$63,417	\$12,459	\$54,857	34
DS3 UTIL	<u>7778</u>	<u>7778</u>	<u>7778</u>	<u>7778</u>	35
DS3 UTIL INV.	\$134,798	\$81,534	\$16,018	\$70,528	36
# OF DS1'S IN DS3	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	37
DS1 INV.	\$4,814	\$2,912	\$0,572	\$2,519	38
DS1 UTIL	<u>71</u>	<u>71</u>	<u>71</u>	<u>71</u>	39
DS1 UTIL INV.	\$6,781	\$4,101	\$0,806	\$3,648	40
# OF DS0'S IN DS1	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	41
DS0 INV.	\$0,283	\$0,171	\$0,034	\$0,148	42
DS0 UTIL	<u>802</u>	<u>802</u>	<u>802</u>	<u>802</u>	43
DS0 UTIL INV.	\$0,382	\$0,213	\$0,042	\$0,184	44

SOURCES: LINE 1, SEE WS 3, COL B, LINES 11-14
 LINES 2, 13, 24, & 35, - 417 MG SYSTEM ASSUMED, 7 OF 8 DS3'S
 IN USE (7778).
 LINES 8, 17, 28, & 39, - VERN SMITH (NET ENG).
 LINES 10, 21, 32, & 43, - VERN SMITH (NET ENG).
 LINE 12, SEE WS 3, COL C, LINES 11-14.
 LINE 23, SEE WS 3, COL D, LINES 11-14.
 LINE 34, SEE WS 3, COL E, LINES 11-14.

08/25/96
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PLANT CLASS INVESTMENTS (FIBER ONLY)
- PER DS3 ROUTE MILE

WS 3

PLANT CLASS	COST PER ROUTE MILE A	T3X # OF DS3 CKTS = 1 B=A	417MB T4X # OF DS3 CKTS = 9 C=(A/9)	OC12 # OF DS3 CKTS = 12 D=(A/12)	1.7GB T7X # OF DS3 CKTS = 36 E=(A/36)
(85C)	3,774.4640	3,774.4640	419.3849	314.5387	104.8462
(822C)	2,283.0080	2,283.0080	253.6676	190.2507	63.4169

1C = 822C * POLE LINE FACTOR
2283.008 * .19646
448.5198

4C = 85C * CONDUIT FACTOR
3774.464 * .52321
1,974.8373

	A	B=A	C=(A/9)	D=(A/12)	E=(A/36)
(1C)	448.5198	448.5198	49.8355	37.3766	12.4589
(4C)	1,974.8373	1,974.8373	219.4264	164.5698	54.8566

(85C)	3,774.4640	3,774.4640	419.3849	314.5387	104.8462
(822C)	2,283.0080	2,283.0080	253.6676	190.2507	63.4169
(1C)	448.5198	448.5198	49.8355	37.3766	12.4589
(4C)	1,974.8373	1,974.8373	219.4264	164.5698	54.8566

TOTAL	8,480.8291	8,480.8291	942.3143	706.7358	235.5786
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SOURCES: COL A, LINES 1&2. - SEE WS 4, COL G, LINES 3 & 4.

COL A, LINES 9 & 10. - SEE ABOVE, LINES 5 & 8.

POLE LINE FACTOR - SEE FACTOR FILE BOOK (1994)

CONDUIT FACTOR - SEE FACTOR FILE BOOK (1994)

06/25/96

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IOF INVESTMENT
- FIBER ONLY (4)

24 FIBER CABLE	INSTALLED FIBER/FT A	4 FIBERS/FT B=A*4	2 FIBERS/MILE C=B*5280	IOF FILL D	FILLED INVESTMENT E=C/D
UNDERGROUND CABLE	\$0.097	0.388	2,048.640	33.0%	\$6,208.000
AERIAL CABLE	\$0.091	0.364	1,921.920	33.0%	\$5,824.000

IOF WEIGHTING F	* PER MILE WGTD FIBER INVESTMENT G=E*F
61%	3,774.464 (85C)
39%	2,283.008 (822C)

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NCAT USES ROUTE MILE INFORMATION. THE V & H COORDINATES
CONVERT THE ROUTE MILES TO AIR MILES.

SOURCES: COL A, - SEE WS 6, 7, COL D, LINE 3.
COL D, - SEE 1995 FACTOR FILE, TAB: FIBER CABLE FILL
COL F, - 1995 FACTOR FILE, TAB: FIBER MILE COST, COL A

End Terminal Shelf

DDM-2000 DETAIL LISTING W/O MUX

Qty	Description	Unit Price	Extended Price
1	Shelf Assy OC-3 ED-8C724-30 G1	\$1050.00	\$1050.00
2	Timing Generator 88F2 105719694	\$829.50	\$1659.00
2	OC-3 OLIU 21G 106064462	\$3290.00	\$6580.00
1	SYSCTL OC-3 (R1) 88G1 105718019	\$1429.40	\$1429.40
4	DS3 Circuit Card 88G4 105719736	\$1190.00	\$4760.00

30 % DISCOUNT FACTOR APPLIED.

\$15478.40 +
-13098.40

OPTIONS SELECTED

.2380.00 PRICE

Max DSP Loss (Main) dB 23
Qty DS1 Ckts
Qty DS3 Ckts
STS-1E Ckts
Tlm Card ?
Protection ?
Qty Optical Extensions

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2
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2 DS3

INVESTMENT WORKSHEET FOR 357C

WS 27

DESCRIPTION: 417 MB SYSTEM
(1-9 DS 3'S)

HARDWARE/PLUG-IN

CENTRAL OFFICE

DESCRIPTION	SOURCES	MATERIAL	INSTALLATION	TOTAL
1) MATERIAL PRICE	SEE THIS TAB WS 30			3,038.89
2) IN-PLANT FACTOR	SEE FACTOR FILE BOOK (1992) - 357C TOTAL CKT			1.5133
3) INSTALLED PRICE	L1 X L2			4,598.75
4) UTILIZATION FACTOR	SEE FACTOR FILE BOOK (1992) - CHAN UTIL 4 KHZ			1.2970
5) INSTALLED UTILIZATION	LN 3 X LN 4			5,966.58
6) PWR & COMMON EQPT FACTOR	SEE FACTOR FILE BOOK (1992)			1.1224
7) TOTAL LOADED INVEST.	L5 X L6			6,694.65
8) TPI ELECTRONIC INVESTMENT	L7 X .99 (DS 3 - DIG CKT EQPT)(1993)			6,627.70
9) LAND FACTOR	SEE FACTOR FILE BOOK (1992)			0.0047
10) LAND INVESTMENT	L8 X L9			31.15
11) BLDG FACTOR	SEE FACTOR FILE BOOK (1992)			0.1841
12) BLDG INVESTMENT	L8 X L11			229.15
13) TPI BLDG INVESTMENT	L12 X 1.03 (DS 3 - BLDG)(1993)			1,256.79

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P. 10

L59 4" AIR DUCT
L61 CABL ED2C825-22,G1
L65 CABL ED2C825-22,G5

0 1 1
0 0 0
0 0 0

WS

J98764C1 list price disc'd price

L1 1.7 DTMB W/NET BAY	\$18,482	\$0	\$0	\$0
L4 DQA W/NET BAY HOR	\$3,929	\$2,228	\$0	\$0
L7 DQA W/NET BAY VER	\$3,899	\$0	\$0	\$0
L16 ADD DQA SHELF	\$2,404	\$0	\$1,363	\$1,363
L17 DLTA SHELF	\$7,389	\$4,190	\$0	\$0
L21 COMMON PLUGS	\$1,772	\$2,009	\$2,009	\$2,009
L22 TRIPLE SYNDES	\$2,690	\$9,151	\$9,151	\$9,151
L23 1.7 INTFC	\$4,846	\$5,495	\$5,495	\$5,495
L24 417 INTFC	\$1,295	\$0	\$0	\$0
L25 DS-3 INTFC (LEFT)	\$837	\$475	\$475	\$475
L26 DS-3 INTFC (RIGHT)	\$837	\$475	\$475	\$475
L27 BAY ALARM	\$307	\$174	\$0	\$0
L28 COMM PLUGS 1/2DLTA	\$2,759	\$3,129	\$0	\$0
L31 730 E TRANSMITTER	\$13,995	\$15,870	\$0	\$0
L34 830A2 RECEIVER	\$16,042	\$18,192	\$0	\$0
L37 730J TRANSMITTER	\$54,642	\$0	\$0	\$0
L38 830B2 RECEIVER	\$19,286	\$0	\$0	\$0
1.7 CABLES	\$500	\$0	\$0	\$0

SAME FOR 36

L46 15E2 NEW REGENS	\$10,000	\$0	\$0	\$0
L51 1.7 PROTECT CABLE	\$301	\$0	\$0	\$0
L52 417 PROTECT PLUGS	\$82	\$0	\$0	\$0
L54 1.7 PROT PLUG 1Q	\$101	\$57	\$57	\$57
L59 4" AIR DUCT	\$55	\$0	\$0	\$0
L61 CABL ED2C825-22,G1	\$378	\$0	\$0	\$0
L65 CABL ED2C825-22,G5	\$402	\$0	\$0	\$0

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ANNUAL EQUIPMENT PRICE TOTALS 61,445 \$19,056 \$19,056 19056

CUMULATIVE EQUIPMENT PRICES \$61,445 \$80,501 \$99,557 118613

NUMBER OF DS3's 9 18 27 36

PER DS3

6827.22 447228 3687.30 3294.81

19056 ÷ 9 = 2117.33

TO BE ADDED FOR EA. ADDITIONAL
DS3 TO THE ORIGINAL 1# 9

PER/

SUBJECT: DSC DEX ECS1 (3/1 DCS) Costs

October 23, 1991

new study

Bernie Hill

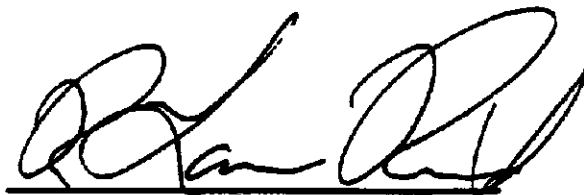
The cost of the DEX ECS1 3/1 Cross-Connect System per equivalent DS1 and DS0 is based on current pricing provided by DSC and the current CBT discount of 42.25%. System cost is dependent on cable and bay assemblies which vary according to system size. Therefore, to acquire a representative cost, two methods were utilized:

1. The equivalent DS1 and DS0 costs were computed for each office and then averaged over all offices.
2. The hardware investment for all offices was computed and divided by the total number of equivalent DS1's and DS0's.

The results are shown on the next page, and details for each office are on the following pages. I control the spreadsheets used here, if you need other costs related to the ECS1, just let me know.

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R. Lance Reid
Transport Planning -
DCS-man

$$230.13 \times 28 \text{ DS1's} = \underline{\underline{6443.64}} / \text{DS3 MULTIPLEXING}$$

PRICES UNCHANGED FROM LAST YEAR'S STUDY
-STEVE HARRIS (12/92) (ACT ENG)

REX/

PCNAP INTEROFFICE FACILITIES MODULE
EQUIPMENT OUTPUT FILE
1991 INVESTMENTS

LINE NUMBER	DESCRIPTION	ACCOUNT	FIELD CODE	CIRCUIT CAPACITY	CKT FILL FACTOR	MATERIAL PRICE(\$)	INPLANT FACTOR	UTIL FILL FACTOR	UNIT INVESTMENT(\$)
				A	B	C	D	E	F=(CxD)/(AxE)
73	KHAM-210	2423.11	45C	2304	0.7250	3,289.34	3.88	0.4810	15.88
74	THAM-416	2423.11	45C	4608	0.7250	5,167.83	3.88	0.4810	12.48
75	189-100 PROTECTOR BLOCK	2426.10	12C	1200	0.7250	300.12	2.61	0.4810	1.87
76	CDAZ-400	2421.11	22C	4608	0.7250	4,936.39	2.47	0.4810	7.59
82	SR2512LT-072 (4575 FT.) 417MB/S	2422.12	85C	108864	0.7250	15,959.00	1.34	0.3420	0.79
83	SR2512LT-072 (750 FT.) 417MB/S	2426.20	812C	108864	0.7250	2,616.00	2.12	0.3420	0.21
84	SR2512LT-144 (1625 FT.) 417MB/S	2422.12	85C	217728	0.7250	10,927.00	1.34	0.3420	0.27
85	SR2512LT-144 (300 FT.) 417MB/S	2426.20	812C	217728	0.7250	2,017.00	2.12	0.3420	0.08
86	SR2512LT-024 (2700 FT.) 417MB/S	2422.12	85C	36288	0.7250	3,463.00	1.34	0.3420	0.52
87	SR2512LT-024 (300 FT.) 417MB/S	2426.20	812C	36288	0.7250	385.00	2.12	0.3420	0.09
88	SR2512LT-024 (7300 FT.) 1.7GB/S	2422.12	85C	145152	0.7250	9,363.00	1.34	0.3420	0.35
89	SR2512LT-024 (200 FT.) 1.7GB/S	2426.20	812C	145152	0.7250	257.00	2.12	0.3420	0.02
90	SR2512LT-024 (8000 FT.) 417MB/S	2422.12	85C	36288	0.7250	10,261.00	1.34	0.3420	1.53
91	SR2512LT-024 (2205 FT.) 417MB/S	2421.12	822C	36288	0.7250	2,828.00	1.28	0.3420	0.40
92	SR2512LT-024 (50 FT.) 417MB/S	2426.20	812C	36288	0.7250	64.00	2.12	0.3420	0.02
93	SR2512LT-024 (4965 FT.) 180MB/S	2422.12	85C	16128	0.7250	6,368.00	1.34	0.3420	2.13
94	SR2512LT-024 (200 FT.) 180MB/S	2426.20	812C	16128	0.7250	257.00	2.12	0.3420	0.14
95	AGAM-900 (600 FT.) FOR VS POPS	2426.10	12C	5400	0.7250	12,300.00	2.61	0.4810	17.05
108	DDM-1000 - 180 MB/S	2232.19	357C	2688	0.7250	33,580.00	1.34	0.7250	31.85
118	FTG - 417 MB/S (J98764C1)	2232.19	357C	6048	0.7250	23,051.00	1.34	0.7250	9.72
129	FTG - 1.7 GB/S (J98764C1)	2232.19	357C	24192	0.7250	118,899.00	1.34	0.7250	12.53
133	DSX-1	2232.19	357C	20160	0.7250	14,980.00	1.34	0.7250	1.89
138	DSX-3	2232.19	357C	96768	0.7250	36,718.00	1.34	0.7250	0.97
146	D4 BANK	2232.19	357C	192	0.7250	69,260.00	1.34	0.6074	1,097.57
157	DDM1000 USED AS M15-MUX	2232.19	357C	1344	0.7250	12,502.00	1.34	0.7250	23.71
164	LGX	2232.19	357C	489888	0.7250	23,130.00	1.34	0.7250	0.12
166	DCS 3/1	2232.19	357C	66956	0.7250	610,180.55	1.34	0.7250	23.23
167	DACS II (DCS 1/0)	2232.19	357C	15360	0.7250	13,028.00	1.34	0.7250	98.49
168	DDM-2000 - 155 MB/S (SONET)	2232.19	357C	2016	0.7250	31,663.00	1.34	0.7250	40.04
165	DCS III (DCS 3/3)	2232.19	357C	845120	0.7250	1,240,000.00	1.34	0.7250	2.74

NOTE: CABLE INVESTMENTS ARE PER 1000 FEET UNLESS OTHERWISE SPECIFIED

* THE CIRCUIT CAPACITY AND THE MATERIAL PRICE HAVE REMAINED UNCHANGED SINCE THE 1989 PCNAP
EQUIPMENT OUTPUT FILE FOR THE DACS II (PER MAUREEN SCHWARBER)

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SUBJECT: DCS Pricing (1/0)

October 30, 1991

Bernie Hill

I now have the complete set of information on the DCS pricing as you requested. The AT&T information was more difficult to retrieve, and is not in the same format as before, but I have included a page that coincides with all the Attachments from the previous study. Only the cost sheets are different, and I have included the new one if you wish to see it.

The results can be summarized as follows:

Base System (640 DS1's or 15360 DS0's)

\$33.18/DS0

Base System with incremental DMB Costs:

First DSPU shelf
\$16.70/Time Slot

Second DSPU shelf
\$15.39/Time Slot

(WS 12)
Both shelves
~~\$16.04/Time Slot~~

Base System with incremental MJU Costs:

First DSPU shelf
\$17.99/Time Slot

Second DSPU shelf
\$16.68/Time Slot

Both shelves
~~\$17.34/Time Slot~~

Base System with incremental SRM Costs:

First DSPU shelf
\$24.83/Time Slot

Second DSPU shelf
\$23.52/Time Slot

Both shelves
~~\$24.17/Time Slot~~

System as configured at West Seventh (11/20/89)

Base System (no DMB or SRDC)
\$33.18/DS0

System with DMB & SRDC
~~\$30.66/Time Slot~~

Please call me if you have any questions. NOTICE MUST BE GIVEN
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33.18 x 24 = 796.32

PROVIDED TO PUCO



R. Lance Reid
CBT Transport Planning
x76312

SOURCE: DOE ST-1000 (SEE ENCL) BASE SYSTEM
PRICE UNCHANGED FROM

RECEIVED

TABLE 1

**1994 TOTAL CIRCUIT IN PLACE COST
FACTOR DEVELOPMENT**

<u>State</u>	<u>FRC</u>	<u>Material Cost</u>	<u>In Place Cost</u>
Ohio	57C	491,816	631,168
Ohio/Indiana	257C	3,748,179	4,393,166
Ohio	357C	11,161,608	14,243,262
	Total	15,401,603	19,267,596
Kentucky	57C	119,628	194,506
	257C	2,560,988	3,200,805
	357C	1,752,477	2,336,201
	Total	4,433,093	5,731,512
Total	57C	611,444	825,674
Company	257C	6,309,167	7,593,971
	357C	12,914,085	16,579,463
	Total	19,834,696	24,999,108

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Circuit Total Factor 1.2604

SUMMARY OF FACTORS

1.	T1 CARRIER UTILIZATION	1.246882
	T3 CARRIER UTILIZATION	1.406469
A.	COMMON DEFERRABLE PLUGS	
	INSIDE REPEATERS	1.1723
	MULTIPLEXERS	1.2180
	CHANNEL BANKS	1.1671
	OUTSIDE REPEATERS	1.0492
B.	PLANT MILEAGE	1.1722
C.	MOUNTING	
	INSIDE/OUTSIDE REPEATERS	3.3822
	CHANNEL BANKS	1.9710
	MULTIPLEXING	2.1164
2.	IN PLACE COST FACTOR	
	CIRCUIT	1.3232
	HARDWIRE	2.0227
	PLUG-IN	1.0599
	NCTE	1.7301
	RADIO & RADIO HARDWIRE	1.0224
3.	COMMON EQUIPMENT	
	PLANT CLASS 77C & 377C	1.0721
	" " 57C,67C,157C,167	
	" " 257C,357C	1.1127
4.	LAND AND BUILDING	
	LAND	0.0056 ←
	BUILDING	0.1316 ←
5.	SUPPORT STRUCTURE	
	CONDUIT TO FIBER CABLE INVESTMENT	0.52321 ←
	CONDUIT TO COPPER CABLE INVESTMENT	0.51650 ←
	POLE TO FIBER CABLE INVESTMENT	0.19648 ←
	POLE TO COPPER CABLE INVESTMENT	0.25303 ←

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PRIOR TO RELEASE TO PUBLIC

PROVIDED TO PUCO

**SUMMARY REPORT OF T3 CARRIERS
CBT PLANT MILEAGE
AS OF 12-31-92**

ORIG.	TERM.	SYSTEMS	AVAIL. CHANNELS	SPARES	OHIO MILEAGE	KY. MILEAGE
		A	B	C	D	E
OHIO	OHIO	528	14,784	4,083	152,428	
KY	KY	87	2,436	898		17,892
OHIO	KY	40	1,120	280	20,600	20,600
KY	OHIO	7	198	137	3,868	3,868
*LEC	OHIO	5	140	51	4,057	
OHIO	LEC*	5	140	11	2,489	
OHIO	IND	1	28	8	174	
	TOTAL	673	18,844	5,466	183,416	42,160

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225,576
PROVIDED TO PUCO

TOTAL MILEAGE
(Tot. D + Tot. E)

%UTILIZATION = **71.9**
(1 - C/B)
(1 - 0.7110) 0.709935

UTILIZATION FACTOR = **1.406469**
(1/.7110)

Source: Plant Mileage reportd - Vern Smith
Eng. & Netwk. Svcs.

* LEC = Local Exchange Carrier

**SUMMARY REPORT OF T1 CARRIERS
CBT PLANT MILEAGE
AS OF 12-31-92**

ORIG.	TERM.	SYSTEMS	AVAIL CHANNELS	SPARES	OHIO MILEAGE	KY. MILEAGE
		A	B	C	D	E
OHIO	OHIO	4,890	112,560	22,896	1,785,594	
KY	KY	268	8,432	968		87,833
OHIO	KY	506	12,144	2,628	117,715	135,478
KY	OHIO	98	2,352	382	35,820	27,550
*LEC	OHIO	138	3,312	293	129,235	
OHIO	LEC*	14	336	44	13,978	
OHIO	IND	33	792	113	21,214	
	TOTAL	5,747	137,928	27,324	2,103,556	250,881

TOTAL MILEAGE
(Tot. D + Tot. E)

%UTILIZATION = 80.2
(1 - C/B)
(1 - 0.1981)

UTILIZATION FACTOR = 1.245882
(1/.8020)

NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
2,354,417
PROVIDED TO PUCO

Source: Plant Mileage reportd - Vern Smith
Eng. & Netwk. Svcs.

* LEC = Local Exchange Carrier

AERIAL INVESTMENT FACTORS **(ALL INVESTMENTS GROSS BOOK)**

1. Pole Investment (DS-1, Page 3)	\$43,130,768
2. Number of Poles (DS-2, Page 1)	153,485
3. Investment per Pole (L.1 / L.2)	\$281.01
4. Pole Investment per Cable Sheath Foot (L.1 / (WS-3, L.8, Col. A * 5,280))	\$0.9183

Fiber Cable Factors

5. Fiber Cable's Proportion of Total Aerial Cable (WS-3, L.7, Col. A / WS-3, L.8, Col. A)	4.00%
6. Pole Investment Assigned to Fiber Cable (L.5 * L.1)	\$1,725,679
7. Pole Investment per Fiber Foot (L.6 / (WS-3, L.7, Col. B * 5,280))	\$0.02034
8. Aerial Fiber Cable Investment per Fiber Foot (WS-3, L.7, Col. D)	\$0.10353
9. Ratio of Pole Investment to Fiber Cable Investment (L.7 / L.8)	0.19646 ←

Copper Cable Factors

10. Copper Cable's Proportion of Total Aerial Cable (1 - L.5)	96.00%
11. Pole Investment Assigned to Copper Cable (L.10 * L.1)	\$41,405,089
12. Pole Investment per Copper Pair Foot (2 * L.11 / ((WS-3, L.5, Col. B + WS-3, L.6, Col. B) * 5,280))	\$0.00485
13. Aerial Copper Cable Investment per Copper Pair Foot (WS-3, L.6, Col. D)	\$0.25303
14. Ratio of Pole Investment to Copper Cable Investment (L.12 / L.13)	0.01916

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**CONDUIT INVESTMENT FACTORS
(ALL INVESTMENTS GROSS BOOK)**

1. Conduit Investment (DS-1, Page 3) \$69,825,274'

Conduit Investment per Trench Foot

2. Trench Miles (DS-2, Page 2) 1,541.53'
3. Conduit Investment per Trench Foot (L.1 / (L.2 * 5,280)) \$8.5788'

Conduit Investment per Duct Foot

4. Duct Miles (DS-2, Page 2) 5,818.23'
5. Duct Fill Factor (WS-3, L.4, Col. A / WS-1 L.4) 0.58327'
6. Conduit Investment per Duct Foot - Unfilled \$2.2729'
(L.1 / (L.4 * 5,280))
7. Conduit Investment per Duct Foot - Filled (L.6 / L.5) \$3.8969'

Fiber Cable Factors

8. Fiber Cable's Proportion of Total Underground Cable 13.83%
(WS-3, L.3, Col. A / WS-3, L.4, Col. A)
9. Conduit Investment Assigned to Fiber Cable \$9,658,026'
(L.8 * L.1)
10. Conduit Investment per Fiber Foot \$0.06305'
(L.9 / (WS-3, L.3, Col. B * 5,280))
11. Underground Fiber Cable Investment per Fiber Foot \$0.12050'
(WS-3, L.3, Col. D)
12. Ratio of Conduit Investment to Fiber Cable Investment 0.52321' ←
(L.10 / L.11)

Copper Cable Factors

13. Copper Cable's Proportion of Total Underground Cable 86.17%
(1 - L.8)
14. Conduit Investment Assigned to Copper Cable \$60,167,248'
(L.13 * L.1)
15. Conduit Investment per Copper Pair Foot \$0.00473'
(2 * L.14 / (WS-3, L.1, Col. B * 5,280))
16. Underground Copper Cable Investment per Copper Pair Foot \$0.00916'
(WS-3, L.1, Col. D)
17. Ratio of Conduit Investment to Copper Cable Investment 0.51650' ←
(L.15 / L.16)

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UNDERGROUND (85C) FIBER COST
(4db Loss Fiber)

	CABLE SIZE (FIBERS) (A)	MATERIAL PRICE PER 100 FEET PER CABLE (B)	MATERIAL PRICE PER FOOT PER FIBER (C) = (B) / (100*(A))	INSTALLED COST PER FOOT PER FIBER (D) = (C) * Line 2
1	12	\$54.513	\$0.0454	\$0.118
2	18	\$72.909	\$0.0405	\$0.105
3	24	\$90.372	\$0.0377	\$0.097 ←
4	30	\$111.255	\$0.0371	\$0.096
5	36	\$129.392	\$0.0359	\$0.093
6	48	\$167.064	\$0.0348	\$0.090
7	60	\$204.167	\$0.0340	\$0.088
8	72	\$240.544	\$0.0334	\$0.086
9	84	\$279.305	\$0.0333	\$0.086
10	96	\$316.438	\$0.0330	\$0.085
11	108	\$355.589	\$0.0329	\$0.085
12	120	\$392.789	\$0.0327	\$0.085
13	132	\$428.648	\$0.0325	\$0.084
14	144	\$467.616	\$0.0325	\$0.084
15	156	\$502.543	\$0.0322	\$0.083
16	168	\$541.200	\$0.0322	\$0.083
17	180	\$579.857	\$0.0322	\$0.083
18	192	\$618.514	\$0.0322	\$0.083
19	204	\$657.171	\$0.0322	\$0.083
20	216	\$695.828	\$0.0322	\$0.083

21	Transportation Factor:
22	Sales Tax Factor:
23	Exempt Materials & Supplies Factor:
24	In-Place Factor:
25	Combined Factor:

SOURCES:

Lines 1 - 20	Column B : DS - 1
Line 21	Purchase Order Sample, DS - 2
Line 22	6% Tax in Kentucky, 0% in Ohio
	Kentucky = 18% of Total Plant, DS - 3
Line 23	1992 Orbit Report for 85C, DS - 4
Line 24	1992 Orbit Report for 85C, DS - 4
Line 25	Line 21 * Line 22 * Line 23 * Line 24

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUBLIC
1.0090
1.0108
1.0612
2.3899
2.5870

AERIAL (822C) FIBER COST
(4db Loss Fiber)

	CABLE SIZE (FIBERS)	MATERIAL PRICE PER 100 FEET PER CABLE	MATERIAL PRICE PER FOOT PER FIBER	INSTALLED COST PER FOOT PER FIBER
	(A)	(B)	(C) = (B) / (100 * (A))	(D) = (C) * Line 2
1	12	\$54.513	\$0.0454	\$0.110
2	18	\$72.909	\$0.0405	\$0.098
3	24	\$90.372	\$0.0377	\$0.091 ←
4	30	\$111.255	\$0.0371	\$0.090
5	36	\$129.392	\$0.0359	\$0.087
6	48	\$167.064	\$0.0348	\$0.084
7	60	\$204.167	\$0.0340	\$0.083
8	72	\$240.544	\$0.0334	\$0.081
9	84	\$279.305	\$0.0333	\$0.081
10	96	\$316.438	\$0.0330	\$0.080
11	108	\$355.589	\$0.0329	\$0.080
12	120	\$392.789	\$0.0327	\$0.079
13	132	\$428.648	\$0.0325	\$0.079
14	144	\$467.616	\$0.0325	\$0.079
15	156	\$502.543	\$0.0322	\$0.078
16	168	\$541.200	\$0.0322	\$0.078
17	180	\$579.857	\$0.0322	\$0.078
18	192	\$618.514	\$0.0322	\$0.078
19	204	\$657.171	\$0.0322	\$0.078
20	216	\$695.828	\$0.0322	\$0.078

21	Transportation Factor:
22	Sales Tax Factor:
23	Exempt Materials & Supplies Factor:
24	In-Place Factor:
25	Combined Factor:

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 1.0108
 NOTICE MUST BE GIVEN
 1.2653
 PRIOR TO RELEASE TO PUBLIC
 1.8796
 PROVIDED TO PUCO
 24257

SOURCES:

Lines 1 - 20	Column B : DS - 1
Line 21	Purchase Order Sample, DS - 2
Line 22	6% Tax in Kentucky, 0% in Ohio
	Kentucky = 18% of Total Plant, DS - 3
Line 23	1992 Orbit Report for 822C, DS - 4
Line 24	1992 Orbit Report for 822C, DS - 4
Line 25	Line 21 * Line 22 * Line 23 * Line 24

DATE: 10/24/95

TIME: 10.06.42

SUMMARY REPORT OF FIBER CABLE UTILIZATION BY STATE
DATA FROM PWS HI-CAP SUMMARY FILE
FILENAME: FIBERUTL

QTR	STATE	SUBP_A_LOC	SUBP_Z_LOC	SUBP_MILEAGE	MILEAGE	INSTALLER	WORKING	RESTRICTED	UTIL
IE	OH	WLBGCHU2D06	WLBGCHVB	3.1	.00		0	0	.00
TOTAL IE				2472.2	42736.30	4250	4415	2203	34.85

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we 33 1/2
FIBER cable
FILL

FIBER MILE COST - INTRASTATE

28-Nov-91
04:40 PM

1. LENGTH (in feet)	5,280
2. NUMBER OF FIBERS	2
3. FILL	0.33

		% A	PRICE B	LENGTH C=LN 1*COL A	CABLE INV D=B*C*LN2/LN3	DIRECTLY ASSIGNED ACF E	INTRASTATE MONTHLY COST F=D*E/12
4.	85C	0.6078	0.097	3,209	1,888	0.3072	48
5.	822C	0.3922	0.091	2,071	1,142	0.3257	31
6.	CONDUIT		0.52321	OF 85C INV	987	0.2810	23
7.	POLES		0.19648	OF 822C INV	224	0.3385	8
8.	TOTAL			(SUM LNS 4 THRU 7)	3,240		\$109

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Source:

- Col a - See box below
- Col b - Fiber cost by field code and 24 fiber cable
- col e - 1995 Directly Assigned ACF

FIELD CODE	FIBER FEET	PERCENT OF TOTAL
85C	35,016	0.60776
822C	22,599	0.39224
	\$57,615	

Source: FIBER (Feet) - QR 7A, 3rd Qtr. 1995

**OHIO ONLY
REVISED JAN 1997 VERSION
BAND 1
BUSINESS ISDN**

MCI DEP.
EX NO. 3
CDR 11-26-97

INDEX

BAND 1

Business ISDN

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

C:\123R24\LCATR033\RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore [®]	
OUTPUT - REPORT D		PROSPECTIVE INVESTMENT SUMMARY REPORT					LCAT Rel: 1.0.4	
SHEET 1 of 1							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 1 - BUSINESS ISDA					RUN DATE: 23-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 7977 FEET					TIME: 09:09	
Loop Span Set Weighting: 1		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		
SEG. NAME		PRIMARY		EXTENSION		SUB-		
EQPT						INTERFACE		
PLANT		CODE						
ITEM DESCRIPTION		SEG. LGTH.						
<u>SHARED RESOURCES</u>								
LAND		20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BUILDING		10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BLDG ENTRANCE CABLE		12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
INTRABLDG CABLE		52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (COPPER)		22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BURIED CABLE (COPPER)		45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
UNDERGROUND (CU) CA.		5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - LOW CAP TERM		257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - LOW CAP CHAN		257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - HI CAP TERM		857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - HI CAP CHAN		857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - ANALOG SW		77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - DIGITAL SW		377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (FIBER)		822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BURIED CABLE (FIBER)		845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
UNDERGROUND (FO) CA.		85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CONNECTORS		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
MISC. COM EQP & PWR		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
POLE LINE		1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CONDUIT		4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
<u>DIRECT RESOURCES</u>								
LAND		20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BUILDING		10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BLDG ENTRANCE CABLE		12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.4513	
INTRABLDG CABLE		52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (COPPER)		22C	\$ 0.00	\$ 0.00	\$ 0.57	\$ 2.18	\$ 2.7500	
BURIED CABLE (COPPER)		45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.84	\$ 0.8400	
UNDERGROUND (CU) CA.		5C	\$ 0.00	\$ 0.00	\$ 3.42	\$ 1.20	\$ 4.6200	
CO EQPT - LOW CAP TERM		257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - LOW CAP CHAN		257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - HI CAP TERM		857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - HI CAP CHAN		857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - ANALOG SW		77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - DIGITAL SW		377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (FIBER)		822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BURIED CABLE (FIBER)		845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
UNDERGROUND (FO) CA.		85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CONNECTORS		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
MISC. COM EQP & PWR		57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
POLE LINE		1C	\$ 0.00	\$ 0.00	\$ 0.14	\$ 0.00	\$ 0.6600	
CONDUIT		4C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.43	\$ 1.6500	
SPAN SUMMARY			\$ 0.00	\$ 0.00	\$ 5.25	\$ 2.45	\$ 12.97	
							\$ 12.97	

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CA123R24\LCATR033\RESULTS1
OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 0 - 18000 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	UNINCR	INV LEVEL	ANNCOST
			TIME

....your report is ready for viewing

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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

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C:\123R24\LCATR033\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10

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 - BUSINESS ISDN
TOTAL LOOP LENGTH: 7977 FEET

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:06

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Circuit Design Mod: 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME	FEEDER	SUB-	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP
SEG. NAME	PRIMARY	EXTENSION	INTERFACE		
PLANT					
ITEM DESCRIPTION					
SHARED RESOURCES					
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES					
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.57	\$ 2.18	\$ 2.75
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.84	\$ 0.84
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 3.42	\$ 1.20	\$ 4.62
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.14	\$ 0.52	\$ 0.66
CONDUIT	4C	\$ 0.00	\$ 1.22	\$ 0.33	\$ 1.55
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 5.14	\$ 12.97
CIRCUIT DESIGN SUMMARY					

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C:\123R24\LCATR033\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 2 of 10		COMPANY: CINCINNATI BELL TEL.		CIRCUIT DESIGN: 2 CDLC		Issued: 7/31/95	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		STUDY YR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		DATE: 23-Jan-97		TIME: 09:06	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 7977 FEET					
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
	PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	LOOP	TOTAL	LOOP
	SEQ. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE		
	EQPT						
	CODE						
PLANT	ITEM DESCRIPTION						
	<u>SHARED RESOURCES</u>						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	<u>DIRECT RESOURCES</u>						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - P GAIN TERM	257C				\$0	\$0
	CO EQPT - P GAIN CHAN	257C				\$0	\$0
	CO EQPT - FO MUX TERM	857C				\$0	\$0
	CO EQPT - FO MUX CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	SPAN SUMMARY					\$0	\$0
	CIRCUIT DESIGN SUMMARY					\$0	\$0

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GCA123R24\LCATR033\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellcore**COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS ISDN
TOTAL LOOP LENGTH: 7977 FEETLCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:08

Technology Type Mix : 0.00001		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY	
PLANT NAME	SEQ. NAME	PRIMARY	FEEDER	SUB-	DISTRIBUTION NETWORK		TOTAL	WEIGHTED
EQPT	CODE		EXTENSION		INTERFACE		LOOP	TOTAL LOOP
PLANT	CODE							
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.57	\$ 2.18	\$ 0.00	\$ 2.75	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.84	\$ 0.00	\$ 0.84	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 3.42	\$ 1.20	\$ 0.00	\$ 4.62	\$ 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	\$ 0.14	\$ 0.52	\$ 0.00	\$ 0.66	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 1.22	\$ 0.43	\$ 0.00	\$ 1.65	\$ 0.0000
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 5.35	\$ 5.17	\$ 2.45	\$ 12.97	\$ 0.00
TECHNOLOGY DESIGN SUMMARY							\$ 12.97	

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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
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:06COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS ISDN
TOTAL LOOP LENGTH: 7977 FEET

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

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

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A B C D E F G		LOOP COST ANALYSIS TOOL										Bellcore®	
		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
		SHEET 5 of 10										Issued: 7/31/95	
		COMPANY: CINCINNATI BELL TEL					CIRCUIT DESIGN: 2 FOMUX					STUDY YR: 1996	
		CITY / AREA: CINCINNATI					LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1	
		STATE / PROV: OHIO					SERVICE CLASS: BAND 1 - BUSINESS ISDN					RUN DATE: 23-Jan-97	
		JOB IDENT: CINCINNATI					TOTAL LOOP LENGTH: 7977 FEET					TIME: 09:05	
0		Circuit Design Mix: 10.0000										UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
1												WEIGHTED	
2		PLANT NAME										TOTAL	
3		SEG. NAME										TOTAL	
4		EQPT										LOOP	
5		PLANT										LOOP	
6		CODE											
7		ITEM DESCRIPTION											
8		<u>SHARED RESOURCES</u>											
9		LAND										\$0	
10		BUILDING										\$0	
11		BLDG ENTRANCE CABLE										\$0	
12		INTRABLDG CABLE										\$0	
13		AERIAL CABLE (COPPER)										\$0	
14		BURIED CABLE (COPPER)										\$0	
15		UNDERGROUND (CU) CA.										\$0	
16		CO EQPT - LOW CAP TERM										\$0	
17		CO EQPT - LOW CAP CHAN										\$0	
18		CO EQPT - HI CAP TERM										\$0	
19		CO EQPT - HI CAP CHAN										\$0	
20		CO EQPT - ANALOG SW										\$0	
21		CO EQPT - DIGITAL SW										\$0	
22		AERIAL CABLE (FIBER)										\$0	
23		BURIED CABLE (FIBER)										\$0	
24		UNDERGROUND (FO) CA.										\$0	
25		CONNECTORS										\$0	
26		MISC. COM EQP & PWR										\$0	
27		POLE LINE										\$0	
28		CONDUIT										\$0	
29		<u>DIRECT RESOURCES</u>											
30		LAND										\$0	
31		BUILDING										\$0	
32		BLDG ENTRANCE CABLE										\$0	
33		INTRABLDG CABLE										\$0	
34		AERIAL CABLE (COPPER)										\$0	
35		BURIED CABLE (COPPER)										\$0	
36		UNDERGROUND (CU) CA.										\$0	
37		CO EQPT - LOW CAP TERM										\$0	
38		CO EQPT - LOW CAP CHAN										\$0	
39		CO EQPT - HI CAP TERM										\$0	
40		CO EQPT - HI CAP CHAN										\$0	
41		CO EQPT - ANALOG SW										\$0	
42		CO EQPT - DIGITAL SW										\$0	
43		AERIAL CABLE (FIBER)										\$0	
44		BURIED CABLE (FIBER)										\$0	
45		UNDERGROUND (FO) CA.										\$0	
46		CONNECTORS										\$0	
47		MISC. COM EQP & PWR										\$0	
48		POLE LINE										\$0	
49		CONDUIT										\$0	
50		SPAN SUMMARY										\$0	
51												\$0	
52												\$0	
53												\$0	
54												\$0	
55												\$0	

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C:\123R24\LCAT033\RESULTS1 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		STUDY YR: 1996 TEST CASE: 1 RUN DATE: 23-Jan-97 TIME: 09:08	
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 - BUSINESS ISDN TOTAL LOOP LENGTH: 7977 FEET							
Circuit Design Mix: 1.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						WEIGHTED	
PLANT NAME SEG. NAME EQPT CODE		FEEDER PRIMARY EXTENSION SUB--		DISTRIBUTION NETWORK INTERFACE		TOTAL LOOP		TOTAL LOOP	
PLANT ITEM DESCRIPTION									
SHARED RESOURCES									
LAND 20C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BUILDING 10C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BLDG ENTRANCE CABLE 12C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
INTRABLDG CABLE 52C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (COPPER) 22C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (COPPER) 45C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (CU) CA. 5C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP TERM 257C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP CHAN 257C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP TERM 857C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP CHAN 857C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - ANALOG SW 77C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - DIGITAL SW 377C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (FIBER) 822C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (FIBER) 845C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (FO) CA. 85C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CONNECTORS 57C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
MISC. COM EQP & PWR 57C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
POLE LINE 1C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CONDUIT 4C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
DIRECT RESOURCES									
LAND 20C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BUILDING 10C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BLDG ENTRANCE CABLE 12C		\$ 0.00		\$ 0.00		\$ 2.45		\$ 2.45	
INTRABLDG CABLE 52C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (COPPER) 22C		\$ 0.00		\$ 0.57		\$ 2.18		\$ 2.75	
BURIED CABLE (COPPER) 45C		\$ 0.00		\$ 0.00		\$ 0.84		\$ 0.84	
UNDERGROUND (CU) CA. 5C		\$ 0.00		\$ 3.42		\$ 1.20		\$ 4.62	
CO EQPT - LOW CAP TERM 257C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP CHAN 257C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP TERM 857C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP CHAN 857C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - ANALOG SW 77C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - DIGITAL SW 377C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (FIBER) 822C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (FIBER) 845C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (FO) CA. 85C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
CONNECTORS 57C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
MISC. COM EQP & PWR 57C		\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00	
POLE LINE 1C		\$ 0.00		\$ 0.14		\$ 0.52		\$ 0.66	
CONDUIT 4C		\$ 0.00		\$ 1.22		\$ 0.43		\$ 1.65	
SPAN SUMMARY		\$ 0.00		\$ 0.00		\$ 5.35		\$ 12.97	

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PRICES \$ 1.17 \$ 2.45 \$ 12.97 \$ 12.97

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C:\123R24\LCATR039\RESULTS1 OUTPUT - WORKSHEET D SHEET 7 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore [®]	
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 1 - BUSINESS ISDN TOTAL LOOP LENGTH: 7977 FEET		LCAT Rel: 1.0.4 Issued: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 23-Jan-97 TIME: 09:06			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY EXTENSION		SUB- INTERFACE		LOOP	
EQPT CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C				\$0	
9	BUILDING	10C				\$0	
10	BLDG ENTRANCE CABLE	12C				\$0	
11	INTRABLDG CABLE	52C				\$0	
12	AERIAL CABLE (COPPER)	22C				\$0	
13	BURIED CABLE (COPPER)	45C				\$0	
14	UNDERGROUND (CU) CA.	5C				\$0	
15	CO EQPT - LOW CAP TERM	257C				\$0	
16	CO EQPT - LOW CAP CHAN	257C				\$0	
17	CO EQPT - HI CAP TERM	857C				\$0	
18	CO EQPT - HI CAP CHAN	857C				\$0	
19	CO EQPT - ANALOG SW	77C				\$0	
20	CO EQPT - DIGITAL SW	377C				\$0	
21	AERIAL CABLE (FIBER)	822C				\$0	
22	BURIED CABLE (FIBER)	845C				\$0	
23	UNDERGROUND (FO) CA.	85C				\$0	
24	CONNECTORS	57C				\$0	
25	MISC. COM EQP & PWR	57C				\$0	
26	POLE LINE	1C				\$0	
27	CONDUIT	4C				\$0	
DIRECT RESOURCES							
30	LAND	20C				\$0	
31	BUILDING	10C				\$0	
32	BLDG ENTRANCE CABLE	12C				\$0	
33	INTRABLDG CABLE	52C				\$0	
34	AERIAL CABLE (COPPER)	22C				\$0	
35	BURIED CABLE (COPPER)	45C				\$0	
36	UNDERGROUND (CU) CA.	5C				\$0	
37	CO EQPT - LOW CAP TERM	257C				\$0	
38	CO EQPT - LOW CAP CHAN	257C				\$0	
39	CO EQPT - HI CAP TERM	857C				\$0	
40	CO EQPT - HI CAP CHAN	857C				\$0	
41	CO EQPT - ANALOG SW	77C				\$0	
42	CO EQPT - DIGITAL SW	377C				\$0	
43	AERIAL CABLE (FIBER)	822C				\$0	
44	BURIED CABLE (FIBER)	845C				\$0	
45	UNDERGROUND (FO) CA.	85C				\$0	
46	CONNECTORS	57C				\$0	
47	MISC. COM EQP & PWR	57C				\$0	
48	POLE LINE	1C				\$0	
49	CONDUIT	4C				\$0	
51	SPAN SUMMARY		\$0	\$0		\$0	

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C:\123R24\LCATR033\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 8 of 10		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 5 FOMUX		Issued: 7/31/95	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		STUDY YR: 1998		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		RUN DATE: 23-Jan-97		TIME: 09:08	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 7977 FEET					
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
PLANT NAME		FEEDER				LOOP	TOTAL
SEG. NAME		DISTRIBUTION NETWORK					
EQPT		INTERFACE					
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C				\$0	\$0
9	BUILDING	10C				\$0	\$0
10	BLDG ENTRANCE CABLE	12C				\$0	\$0
11	INTRABLDG CABLE	52C				\$0	\$0
12	AERIAL CABLE (COPPER)	22C				\$0	\$0
13	BURIED CABLE (COPPER)	45C				\$0	\$0
14	UNDERGROUND (CU) CA.	5C				\$0	\$0
15	CO EQPT - LOW CAP TERM	257C				\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
17	CO EQPT - HI CAP TERM	857C				\$0	\$0
18	CO EQPT - HI CAP CHAN	857C				\$0	\$0
19	CO EQPT - ANALOG SW	77C				\$0	\$0
20	CO EQPT - DIGITAL SW	377C				\$0	\$0
21	AERIAL CABLE (FIBER)	822C				\$0	\$0
22	BURIED CABLE (FIBER)	845C				\$0	\$0
23	UNDERGROUND (FO) CA.	85C				\$0	\$0
24	CONNECTORS	57C				\$0	\$0
25	MISC. COM EQP & PWR	57C				\$0	\$0
26	POLE LINE	1C				\$0	\$0
27	CONDUIT	4C				\$0	\$0
DIRECT RESOURCES							
30	LAND	20C				\$0	\$0
31	BUILDING	10C				\$0	\$0
32	BLDG ENTRANCE CABLE	12C				\$0	\$0
33	INTRABLDG CABLE	52C				\$0	\$0
34	AERIAL CABLE (COPPER)	22C				\$0	\$0
35	BURIED CABLE (COPPER)	45C				\$0	\$0
36	UNDERGROUND (CU) CA.	5C				\$0	\$0
37	CO EQPT - LOW CAP TERM	257C				\$0	\$0
38	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
39	CO EQPT - HI CAP TERM	857C				\$0	\$0
40	CO EQPT - HI CAP CHAN	857C				\$0	\$0
41	CO EQPT - ANALOG SW	77C				\$0	\$0
42	CO EQPT - DIGITAL SW	377C				\$0	\$0
43	AERIAL CABLE (FIBER)	822C				\$0	\$0
44	BURIED CABLE (FIBER)	845C				\$0	\$0
45	UNDERGROUND (FO) CA.	85C				\$0	\$0
46	CONNECTORS	57C				\$0	\$0
47	MISC. COM EQP & PWR	57C				\$0	\$0
48	POLE LINE	1C				\$0	\$0
49	CONDUIT	4C				\$0	\$0
51	SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0
52						\$0	\$0
53						\$0	\$0
54						\$0	\$0
55						\$0	\$0

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A
B
C
D
E
F
GCA123R24\LCATR033\RESULTS1
OUTPUT - WORKSHEET D
SHEET 9 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:06COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 6 FDMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS ISDN
TOTAL LOOP LENGTH: 7977 FEET

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

WEIGHTED

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

PLANT
ITEM DESCRIPTION**SHARED RESOURCES**

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

DIRECT RESOURCES

29	LAND	20C			\$0	\$0
30	BUILDING	10C			\$0	\$0
31	BLDG ENTRANCE CABLE	12C			\$0	\$0
32	INTRABLDG CABLE	52C			\$0	\$0
33	AERIAL CABLE (COPPER)	22C			\$0	\$0
34	BURIED CABLE (COPPER)	45C			\$0	\$0
35	UNDERGROUND (CU) CA.	5C			\$0	\$0
36	CO EQPT - LOW CAP TERM	257C			\$0	\$0
37	CO EQPT - LOW CAP CHAN	257C			\$0	\$0
38	CO EQPT - HI CAP TERM	857C			\$0	\$0
39	CO EQPT - HI CAP CHAN	857C			\$0	\$0
40	CO EQPT - ANALOG SW	77C			\$0	\$0
41	CO EQPT - DIGITAL SW	377C			\$0	\$0
42	AERIAL CABLE (FIBER)	822C			\$0	\$0
43	BURIED CABLE (FIBER)	845C			\$0	\$0
44	UNDERGROUND (FO) CA.	85C			\$0	\$0
45	CONNECTORS	57C			\$0	\$0
46	MISC. COM EQP & PWR	57C			\$0	\$0
47	POLE LINE	1C			\$0	\$0
48	CONDUIT	4C			\$0	\$0

SPAN SUMMARY

\$0 \$0

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\$0

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	LOOP COST ANALYSIS TOOL										Bellcore®	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
0	CM123R24/LCATR033/RESULTS1										Issued: 7/31/95	
1	OUTPUT - WORKSHEET D										STUDY YR: 1996	
2	SHEET 10 of 10										TEST CASE: 1	
3	COMPANY: CINCINNATI BELL TEL										RUN DATE: 23-Jan-97	
4	CITY / AREA: CINCINNATI										TIME: 09:06	
5	STATE / PROV: OHIO											
6	JOB IDENT: CINCINNATI											
7	CIRCUIT DESIGN: MELDED FOMUX											
8	LOOP SPAN DIVISION: ALL LOOP SPANS											
9	SERVICE CLASS: BAND 1 - BUSINESS ISDN											
10	TOTAL LOOP LENGTH: 7977 FEET											
11	Technology Type Mix: 1.0000											
12	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY										TECHNOLOGY	
13	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK										WEIGHTED	
14	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE										TOTAL	
15	EQPT										LOOP	
16	CODE										TOTAL	
17	PLANT										LOOP	
18	ITEM DESCRIPTION											
19	<u>SHARED RESOURCES</u>											
20	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
21	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
22	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
23	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
24	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
26	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
27	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
28	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
29	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
30	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
31	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
32	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
33	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
35	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
36	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
37	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
38	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
39	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
40	<u>DIRECT RESOURCES</u>											
41	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
42	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
43	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45	\$ 2.4513	
44	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
45	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.57	\$ 2.18	\$ 0.00	\$ 2.75	\$ 2.75	\$ 2.7500		
46	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.84	\$ 0.00	\$ 0.84	\$ 0.84	\$ 0.8400		
47	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 3.42	\$ 1.20	\$ 0.00	\$ 4.62	\$ 4.62	\$ 4.6200		
48	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
49	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
50	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
51	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
52	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
53	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
54	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
55	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
56	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
57	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
58	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
59	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.14	\$ 0.00	\$ 0.00	\$ 0.66	\$ 0.66	\$ 0.6600		
60	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 1.22	\$ 0.43	\$ 0.00	\$ 1.65	\$ 1.65	\$ 1.6500		
61	SPAN SUMMARY										\$ 12.97	
62			\$ 0.00	\$ 0.00	\$ 5.35	\$ 2.45	\$ 0.00	\$ 12.97	\$ 12.97	\$ 12.97	\$ 12.97	
63	CONFIDENTIAL											
64	NOTICE MUST BE GIVEN											
65	PRIOR TO RELEASE TO PUBLIC											
66	PROVIDED TO PUBLIC											

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CA123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

22-Jan-97

Issued: 8/31/95

15:36

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRA

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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LOOP COST ANALYSIS TOOL												Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET												LCAT Release: 1.0.4	
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL												Issue Date: 8/31/95	
FACILITY TYPE: COPPER CABLE												STUDY YR: 1996	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC/NON-COLL/SC												TEST CASE: 1	
SERVICE CLASS: BAND 1 - BUSINESS ISDN												RUN DATE: 23-Jan-97	
												TIME: 08:56	
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT 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			
					[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]		
LAND	20C	F	SHARED						1.0000				
BUILDING	10C	F	SHARED						1.0000				
BLDG ENTRANCE CABLE	12C	V	DIRECT						1.0000				
INTRABLDG CABLE	52C	V	DIRECT						0.3500				
AERIAL CABLE (COPPER)	22C	V	DIRECT	22.74	1			\$ 23	0.3500		\$ 85		
BURIED CABLE (COPPER)	45C	V	DIRECT	10.21	1			\$ 10	0.3500		\$ 29		
UNDERGROUND (CU) CA.	5C	V	DIRECT	13.81	1			\$ 14	0.3500		\$ 36		
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	16.44	1				0.0000		\$ 16		
CONDUIT	4C	F	DIRECT	20.38	1			\$ 20	1.0000		\$ 20		
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO \$0 \$170 \$170 distinwty													
FOOTNOTES													
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.													
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.													
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;													
CO EQPT - ESS = CONNECTORS + MISC. CP&E.													

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C:\123R24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL		Bellcore (R)	
DIST PLANT - WORKSHEET B		BASIC INVESTMENT WORKSHEET		LCAT	
Sheet 1 of 3		FACILITY TYPE: COPPER CABLE		Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT: SERVICE ACCESS		STUDY YR: 1999	
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 1 - BUSINESS ISDN		TEST CASE: 1	
STATE / PROV: OHIO				RUN DATE: 23-Jan-97	
				TIME: 08:56	
0					
1					
2					
3					
4					
5	TYPE OF PLANT	UNIT	PROB.	WEIGHTED	
6	ITEM	PLANT	OF	TERMINAL	
7		INVEST.	OCCURANCE	INVESTMENT	
8		[A]	[B]	[C=A*B]	
9	INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00	
10	BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00	
11	AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00	
12	BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00	
13	AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00	
14	BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00	
15	COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00	
16					
17					
18					
19					
20					
21					
22					
23					
24					
25	POLE LINE FACTOR (PLF) =	from length: 0.0000	from invest: 0.2530		
26	POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =	\$ 0.00			
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47	FOOTNOTES				
48	NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.				
49	NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS				
50					
51					
52					
53					
54					
55					

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

LOOP COST ANALYSIS TOOL										Bellcore	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4	
CITY / AREA: CINCINNATI										STUDY YR: 1999	
STATE / PROV: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 23-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 08:56	
SERVICE CLASS: BAND 1 - BUSINESS ISDN											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE	1996 UNIT INVESTMENT BY ACCOUNT	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	SHARED RESOURCES	DIRECT RESOURCES	
		VARI ALLOCATION		[F]	[G]	[H=F*G]	[J]	[K=H/J]	[L=H'/J]	[M=H'/J]	
LAND	20C	F SHARED					1.0000				
BUILDING	10C	F SHARED					1.0000				
BLDG ENTRANCE CABLE	12C	V DIRECT		75.00	1		1.0000			\$ 75	
INTRABLDG CABLE	52C	V DIRECT		0.00			0.3500				
AERIAL CABLE (COPPER)	22C	V DIRECT		0.00			0.3500				
BURIED CABLE (COPPER)	45C	V DIRECT		0.00			0.3500				
UNDERGROUND (CU) CA.	5C	V DIRECT					0.3500				
CO EQPT - P GAIN TERM	257C	F DIRECT					0.7000				
CO EQPT - P GAIN CHAN	257C	V DIRECT					0.7000				
CO EQPT - FO MUX TERM	857C	F DIRECT					1.0000				
CO EQPT - FO MUX CHAN	857C	F DIRECT					1.0000				
CO EQPT - ANALOG SW	77C	V DIRECT					1.0000				
CO EQPT - DIGITAL SW	377C	V DIRECT					1.0000				
AERIAL CABLE (FIBER)	822C	F DIRECT					0.0000				
BURIED CABLE (FIBER)	845C	F DIRECT					0.0000				
UNDERGROUND (FO) CA.	85C	F DIRECT					0.0000				
CONNECTORS	57C	V DIRECT					1.0000				
MISC. COM EQP & PWR	57C	V SHARED					1.0000				
POLE LINE	1C	F DIRECT		0.00			1.0000				
CONDUIT	4C	F DIRECT					1.0000				

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PRIOR TO RELEASE TO PUBLIC

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bctmly

FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

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

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

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Facility Type: COPPER CABLE
Circuit Segment: SERVICE ACCESS
Service Class: BAND 1 - BUSINESS ISDN

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 08:56

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

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

NOTICE: NO RELEASE TO PUBLIC
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 PLANT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Bellcore (R)

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS ISDN

Release: LCAT
STUDY YR: 1.0.4
TEST CASE: 1996
RUN DATE: 23-Jan-97
TIME: 08:58

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

POLE LINE FACTOR (PLF) =

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

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FOOTNOTES

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

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

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CA123R24LCATCALC.DIST
DIST. PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL ACCOUNT INVESTMENT WORKSHEET

Bellcore (R)

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

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

Release: 1.0.4
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 08:56

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

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\$0 \$75
\$75
bottom

FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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DIST PLNT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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

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

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 08:56

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TP1 [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3457				
UNDERGROUND (CU) CA.	5C	1.0000			0.3653				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			botshrinv	botdirinv					
			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75			\$ 29.42		\$ 2.45
			botinvsv			botann		botmrc	

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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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C:\123R24\LCATCALC\DIST		LOOP COST ANALYSIS TOOL				Bellcore ^(R)	
DIST PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3						Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT SEGMENT: DISTRIBUTION PLANT / NON-DLC / NON-COLLO				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS SDN				RUN DATE: 23-Jan-97	
						TIME: 08:56	
		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
						TOTAL	
						AVG. WEIGHTED	
						INVESTMENT	
						971	

SHARED RESOURCES							
7	LAND	20C					\$ 0.00
8	BUILDING	10C					\$ 0.00
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
11	AERIAL CABLE (COPPER)	22C					\$ 0.00
12	BURIED CABLE (COPPER)	45C					\$ 0.00
13	UNDERGROUND (CU) CA.	5C					\$ 0.00
14	CO EQPT - P GAIN TERM	257C					\$ 0.00
15	CO EQPT - P GAIN CHAN	257C					\$ 0.00
16	CO EQPT - FO MUX TERM	857C					\$ 0.00
17	CO EQPT - FO MUX CHAN	857C					\$ 0.00
18	CO EQPT - ANALOG SW	77C					\$ 0.00
19	CO EQPT - DIGITAL SW	377C					\$ 0.00
20	AERIAL CABLE (FIBER)	822C					\$ 0.00
21	BURIED CABLE (FIBER)	845C					\$ 0.00
22	UNDERGROUND (FO) CA.	85C					\$ 0.00
23	CONNECTORS	57C					\$ 0.00
24	MISC. COM EQP & PWR	57C					\$ 0.00
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
27							
DIRECT RESOURCES							
29	LAND	20C					\$ 0.00
30	BUILDING	10C					\$ 0.00
31	BLDG ENTRANCE CABLE	12C					\$ 0.00
32	INTRABLDG CABLE	52C					\$ 0.00
33	AERIAL CABLE (COPPER)	22C		\$ 2.18			\$ 2.18
34	BURIED CABLE (COPPER)	45C		\$ 0.84			\$ 0.84
35	UNDERGROUND (CU) CA.	5C		\$ 1.20			\$ 1.20
36	CO EQPT - P GAIN TERM	257C					\$ 0.00
37	CO EQPT - P GAIN CHAN	257C					\$ 0.00
38	CO EQPT - FO MUX TERM	857C					\$ 0.00
39	CO EQPT - FO MUX CHAN	857C					\$ 0.00
40	CO EQPT - ANALOG SW	77C					\$ 0.00
41	CO EQPT - DIGITAL SW	377C					\$ 0.00
42	AERIAL CABLE (FIBER)	822C					\$ 0.00
43	BURIED CABLE (FIBER)	845C					\$ 0.00
44	UNDERGROUND (FO) CA.	85C					\$ 0.00
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C		\$ 0.52			\$ 0.52
48	CONDUIT	4C		\$ 0.43			\$ 0.43
49							
50							
51	SPAN SUMMARY		\$ 5.17	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
52	AVG. WTD. SPAN SUMMARY		\$ 5.17	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
53							
54	NOTE:	[sum(INV _{ACCT} BAND * MIX(BAND))]					\$ 5.17
55							

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DIST_PLNT - REPORT 148

Sheet 1 of 1

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

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS ISDN

Bellcore (R)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 23-Jan-97

TIME: 08:56

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

ALL

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.	
SHARED RESOURCES			
LAND	20C		
BUILDING	10C		
BLDG ENTRANCE CABLE	12C		
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
DIRECT RESOURCES			
LAND	20C		
BUILDING	10C		
BLDG ENTRANCE CABLE	12C		2.45
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			

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RUN - SUB PRI

LAST UPDATE

22-Jan-97

15:38

LOOP COST ANALYSIS TOOL

Bellcore^(R)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRAS

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST PLAN
FR / DS	FLAT RATE	# BANDS
SVC LEVEL	NAR BAND	# CKTS MUST BE GIVEN
CST METH	UN INCR	INV LEVEL ANN COST

PRIOR

PROVIDED TO PUCO

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

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CA123R241LCATCALC/CUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/SUB-PRIMARY
SERVICE CLASS: BAND 1 - BUSINESS ISDN

Belcore (R)
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 08:59

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

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
7006	AERIAL	0.120000	840.72	0.012100	10.17		0.00	0.00	
MELDED GAUGE/S/ COPPER CABLE	BURIED	0.000000	0.00	0.016800	0.00		0.00	0.00	
	UNDERGRND	0.880000	6165.28	0.010900	57.20		0.00	0.00	
CHECK =		1.000000							

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION (CO CONN) CONNECTORS (cdi77c) = \$ 0.00

POLE LINE FACTOR = $\frac{\text{inv / unit lgh: inv rtm fctr:}}{0.000000 \quad 0.253000}$

POLE LINE INVESTMENT = \$ 4.29

(UTIL AERIAL INVEST x PL)

UG CONDUIT FACTOR = $\frac{0.000000}{0.516500}$

CONDUIT INVESTMENT = \$ 57.85

(UTIL UNDGRND INVEST x UC)

MISC. COMMON EQPT. & POWER FACTOR = 0.112700

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

LAND FACTOR = 0.000000

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

BUILDING FACTOR = 0.000000

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

PERCENT OF CO CONN AT DIGITAL SWITCHES = 100.0000

PERCENT OF CO CONN AT ANALOG SWITCHES = 0.0000

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FOOTNOTES

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

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

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

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

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
SUB_FRI - WORKSHEET				ACCOUNT INVESTMENT WORKSHEET						LCAT Release: 1.0.4	
Sheet 2 of 3				CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS						Issue Date: 7/31/95	
COMPANY: CINCINNATI BELL TEL.				FACILITY TYPE: COPPER CABLE						STUDY YR: 1996	
CITY / AREA: CINCINNATI				CIRCUIT SEGMENT: [WELDED GAUGE/S] SUB-PRIMARY						TEST CASE: 1	
STATE / PROV: OHIO				SERVICE CLASS: BAND 1 - BUSINESS ISDN						RUN DATE: 23-Jan-97	
										TIME: 08:59	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
8 LAND	20C	F	SHARED	0.00				1.0000			
9 BUILDING	10C	F	SHARED	0.00				1.0000			
10 BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
11 INTRABLDG CABLE	52C	V	DIRECT					0.3500			
12 AERIAL CABLE (COPPER)	22C	V	DIRECT	10.17	1		\$ 10	0.6000		\$ 17	
13 BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000			
14 UNDERGROUND (CU) CA.	5C	V	DIRECT	67.20	1		\$ 67	0.6000		\$ 112	
15 CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000			
16 CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000			
17 CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000			
18 CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000			
19 CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
20 CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
21 AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300			
22 BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300			
23 UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300			
24 CONNECTORS	57C	V	DIRECT					1.0000			
25 MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000			
26 POLE LINE	1C	F	DIRECT	4.29	1		\$ 4	1.0000		\$ 4	
27 CONDUIT	4C	F	DIRECT	57.85	1		\$ 58	1.0000		\$ 58	
TOTALS										\$ 191	\$ 191
FOOTNOTES										culprity	
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.											
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:											
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ. BURIED CABLE, ... ETC;											
CO EQPT - ESS = CONNECTORS + MISC. CP&E.											

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C:\123R24\LCATCALC\GUTCH			LOOP COST ANALYSIS TOOL						Bellcore (P)	
SUB PRI - WORKSHEET Sheet 1 of 3			PROSPECTIVE AND ANNUAL COSTS WORKSHEET CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS						LCAT Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY						Issue Date: 7/31/95	
			SERVICE CLASS: BAND 1 - BUSINESS ISDN						STUDY YR: 1995	
									TEST CASE: 1	
									RUN DATE: 23-Jan-97	
									TIME: 08:59	
			1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST		1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
PLANT ITEM	PLANT ACCT CODE	TO 1996 TPI [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL 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			0.3922					
INTRABLDG CABLE	52C	1.0000			0.3922					
AERIAL CABLE (COPPER)	22C	1.0000		\$ 17	0.4033		\$ 5.84		\$ 0.57	
BURIED CABLE (COPPER)	45C	1.0000			0.3457					
UNDERGROUND (CU) CA.	5C	1.0000		\$ 112	0.3663		\$ 41.03		\$ 3.42	
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		\$ 4	0.3807		\$ 1.63		\$ 0.14	
CONDUIT	4C	1.0000		\$ 58	0.2521		\$ 14.56		\$ 1.22	
SUBTOTALS			\$ 0	\$ 191		\$ 0.00	\$ 64.06	\$ 0.00	\$ 5.35	
TOTALS				\$ 191			\$ 64.06		\$ 5.35	

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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.

Q TIRUO G

C:\123R24\LCATCALC\OUTECH
SUB PRI - REPORT 14
Sheet 1 of 1

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

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

FACILITY SEGMENT: SUB-PRIMARY PLANT
SERVICE CLASS: BAND 1 - BUSINESS ISDN

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 08:59

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

(SEE NOTE)
TOTAL
AVG. WEIGHTED

7006

PLANT ITEM	PLANT ACCT	BAND MIX	AVG. LGTH	SEG. LGTH	1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	(SEE NOTE) TOTAL AVG. WEIGHTED		
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				\$ 0.57	\$ 0.57		
BURIED CABLE (COPPER)	45C					\$ 0.00		
UNDERGROUND (CU) CA.	5C				\$ 3.42	\$ 3.42		
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	0.1			\$ 0.14	\$ 0.14		
CONDUIT	4C	1.2			\$ 1.22	\$ 1.22		
SPAN SUMMARY					\$ 5.35	\$ 0.00	\$ 0.00	\$ 5.35
AVG. WTD. SPAN SUMMARY					\$ 5.35	\$ 0.00	\$ 0.00	\$ 5.35
NOTE: $\text{sum}(\text{INV}_{\text{ACCT}}^{\text{BAND}} * \text{MIX}^{\text{BAND}})$								

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RUN - CDLC PLANT

Bellcore[®]

LCAT

Release: 1.0.4

Issued: 8/31/95

LAST UPDATE

22-Jan-97

15:40

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR: DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CWR										TEST CASE: 1	
CIRCUIT DESIGN: T1C										DATE: 23-Jan-97	
SERVICE CLASS: BAND 1 - BUSINESS ISDN										TIME: 09:01 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
7977 cur lgth											
7006 cur sidr - lgth											
f = 0.125 pgractor.											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4)											
(NOTE 3)											
CABLE WEIGHTED AIR DRYER DROP WIRE DROP WIRE											
INVESTMENT TERMINAL INVESTMENT ADJUSTMENT INVESTMENT											
PER CHAN INVESTMENT PER PAR PER PAR PER PAR											
[E=C*D] [UI*DTC] [E*fcrr] [E*fcrr] [UI*DTC]											
[A] [B] [C=A*B*f] [D]											
0											
AERIAL 0.120000 0.00 0.024200 \$ 0.00 \$ 0.00											
ON BURIED 0.000000 0.00 0.033200 \$ 0.00 \$ 0.00											
COPPER CABLE DLC											
124.00 GA. FACILITIES UNDERGRND 0.880000 0.00 0.021800 \$ 0.00 \$ 0.00											
1.000000											
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC CEV FACILITIES = compgrvst											
OTHER INVESTMENT											
POLE LINE FACTOR (PLf) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) =											
UGD CONDUIT FACTOR (UCf) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =											
MCE&P INVEST. (CU REMMUX x MCEP) =											
MCE&P INVEST. (CDLCMUX x MCEP) =											
MCE&P INVEST. (CO CONN x MCEP) =											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf_rem) =											
LAND FACTOR FOR DLC (LANDf_c.o.) =											
LAND INVEST. (CU COMUX + MCEP) x LANDf =											
LAND INVEST. ((CO CONN + MCEP) x LANDf) =											
BUILDING FACTOR FOR DLC (BLDGf_rem) =											
BUILDING FACTOR FOR DLC (BLDGf_c.o.) =											
BLDG INVEST. (CDLCMUX + MCEP) x BLDGf =											
BLDG INVEST. ((CO CONN + MCEP) x BLDGf) =											
LOOP TOPOLOGY											
STAR											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF RING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIV. DIG. INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED											
OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MUX											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT											
ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E											

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CDLG PLANT - WORKSHEET 1		ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
Sheet 2 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1995	
COMPANY: CINCINNATI BELL TEL		FACILITY TYPE: COPPER DIG LOOP CTR										TEST CASE: 1	
CITY / AREA: OHIO		CIRCUIT DESIGN: 7C										DATE: 23-Jan-97	
STATE / PROV: CINCINNATI		SERVICE CLASS: BAND 1 - BUSINESS ISDN										TIME: 09:01 AM	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1995 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1995 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1995 UNIT LOOP INVESTMENT INCL UTILIZATION				
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]			
LAND	20C	F	SHARED	3.06	0			1.0000					
BUILDING	10C	F	SHARED	71.96	0			1.0000					
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000					
INTRABLDG CABLE	52C	---	---		0			0.3500					
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000					
BURIED CABLE (COPPER)	43C	V	DIRECT	0.00	0			0.8000					
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00	0			0.6000					
CO EQPT - P GAIN TERM	257C	F	DIRECT	196.96	0			0.7000					
CO EQPT - P GAIN CHAN	257C	V	DIRECT	348.82	0			0.7000					
CO EQPT - FO MUX TERM	857C	F	DIRECT		0			1.0000					
CO EQPT - FO MUX CHAN	857C	F	DIRECT		0			1.0000					
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00	0			1.0000					
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00	0			1.0000					
AERIAL CABLE (FIBER)	822C	F	DIRECT		0			0.3300					
BURIED CABLE (FIBER)	845C	F	DIRECT		0			0.3300					
UNDERGROUND (FO) CA.	85C	F	DIRECT		0			0.3300					
CONNECTORS	57C	V	DIRECT		0			1.0000					
MISC. COM EQP & PWR	57C	V	SHARED	0.00	0			1.0000					
POLE LINE	1C	F	DIRECT	0.00	0			1.0000					
CONDUIT	4C	F	DIRECT	0.00	0			1.0000					
TOTALS													

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 \$0

 FEEDTHY

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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COLC_PLANT - WORKSHEET 1

Sheet 3 of 3

LOOP COST ANALYSIS TOOL

PROSPECTIVE AND ANNUAL COSTS WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET

FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

FACILITY TYPE : COPPER/DIG LOOP CRR

CIRCUIT DESIGN : T1C

SERVICE CLASS : BAND 1 - BUSINESS ISDN

Belcore v4

LCAT Release : 1.0.4

Issue Date : 8/31/95

STUDY YR : 1996

TEST CASE : 1

DATE : 23-Jan-97

TIME : 09:01 AM

COMPANY: CINCINNATI BELL TEL

CITY / AREA : OHIO

STATE / PROV : CINCINNATI

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			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			0.3661				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3661				
CO EQPT - FO MUX TERM	857C	1.0000			0.3661				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3661				
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			0.2669				
CONNECTORS	57C	1.0000			0.3661				
MISC. COM EQP & PWR	57C	1.0000			0.3661				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS									
			\$0	\$0					
				\$0					
				FEEDT5Y					

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NOTICE: ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

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

C:\123R24\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL		Bellaire	
CDLC PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI: BELL TEL.		Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT		STUDY YR: 1996	
STATE / PROV: OHIO		CIRCUIT DESIGN: COPPER DIG LOOP CDR		TEST CASE: 1	
		SERVICE CLASS: BAND 1 - BUSINESS ISDN		DATE: 23-Jan-97	
				TIME: 09:01 AM	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
		logic-14a		(SEE NOTE)	
		BAND		TOTAL	
		0		AVG. WEIGHTED	
		1.0000		INVESTMENT	
		7977		0	
		0			
SHARED RESOURCES					
PLANT ITEM	PLANT	MIX	ACCT	AVG	
	CODE	LGTH			
	SEG LGTH				
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
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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
AVG. WTD. SPAN SUMMARY		0.00	0.00	0.00	0.00
NOTE: [sum(INV _{ACCT} * MIX _{MANU})]					

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 PRIOR TO RELEASE TO PUBLIC
 PROVIDED TO BUCO

C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE:

22-Jan-97

15:41

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 ONLY) BUSINESS ISDN 0 - 18000 FEET INTRASTAT

CURRENT TEST PLAN :

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

NOTICE MUST BE
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO
your run is finished

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

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RATES PLAN

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

LOOP COST ANALYSIS TOOL										Bellcore [®]																																																																																																																																																																																																																																																																	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4																																																																																																																																																																																																																																																																	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95																																																																																																																																																																																																																																																																	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996																																																																																																																																																																																																																																																																	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1																																																																																																																																																																																																																																																																	
SERVICE CLASS: BAND 1 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 23-Jan-97																																																																																																																																																																																																																																																																	
										TIME: 09:03																																																																																																																																																																																																																																																																	
CA123R24\LCAT\CA\CFOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 3 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO																																																																																																																																																																																																																																																																											
<table border="1"> <thead> <tr> <th rowspan="2">PLANT ITEM</th> <th rowspan="2">PLANT ACCT CODE</th> <th rowspan="2">TO 1996 TPI</th> <th colspan="2">1996 UNIT LOOP INVESTMENT BY ACCOUNT</th> <th rowspan="2">ANNUAL COST FACTOR</th> <th colspan="2">1996 UNIT ANNUAL COSTS BY ACCOUNT</th> <th colspan="2">1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT</th> </tr> <tr> <th>SHARED RESOURCES fo3sixaset</th> <th>DIRECT RESOURCES fo3dixaset</th> <th>SHARED RESOURCES</th> <th>DIRECT RESOURCES</th> <th>SHARED RESOURCES fo3sixaset</th> <th>DIRECT RESOURCES fo3dixaset</th> </tr> <tr> <th colspan="3">[PREVIOUS SHEET SUMMARY]</th> <th>[M=K*L]</th> <th>[M'=K'*L]</th> <th>[N]</th> <th>[P=M*N]</th> <th>[P'=M'*N]</th> <th>[Q=P/12]</th> <th>[Q'=P'/12]</th> </tr> </thead> <tbody> <tr><td>LAND</td><td>20C</td><td>1.0000</td><td></td><td></td><td>0.2322</td><td></td><td></td><td></td><td></td></tr> <tr><td>BUILDING</td><td>10C</td><td>1.0000</td><td></td><td></td><td>0.2937</td><td></td><td></td><td></td><td></td></tr> <tr><td>BLDG ENTRANCE CABLE</td><td>12C</td><td>1.0000</td><td></td><td></td><td>0.3922</td><td></td><td></td><td></td><td></td></tr> <tr><td>INTRABLDG CABLE</td><td>52C</td><td>1.0000</td><td></td><td></td><td>0.3922</td><td></td><td></td><td></td><td></td></tr> <tr><td>AERIAL CABLE (COPPER)</td><td>22C</td><td>1.0000</td><td></td><td></td><td>0.4033</td><td></td><td></td><td></td><td></td></tr> <tr><td>BURIED CABLE (COPPER)</td><td>45C</td><td>1.0000</td><td></td><td></td><td>0.3467</td><td></td><td></td><td></td><td></td></tr> <tr><td>UNDERGROUND (CU) CA</td><td>5C</td><td>1.0000</td><td></td><td></td><td>0.3663</td><td></td><td></td><td></td><td></td></tr> <tr><td>CO EQPT - LOW CAP TERM</td><td>257C</td><td>1.0000</td><td></td><td></td><td>0.3881</td><td></td><td></td><td></td><td></td></tr> <tr><td>CO EQPT - LOW CAP CHAN</td><td>257C</td><td>1.0000</td><td></td><td></td><td>0.3881</td><td></td><td></td><td></td><td></td></tr> <tr><td>CO EQPT - HI CAP TERM</td><td>857C</td><td>1.0000</td><td></td><td></td><td>0.3881</td><td></td><td></td><td></td><td></td></tr> <tr><td>CO EQPT - HI CAP CHAN</td><td>857C</td><td>1.0000</td><td></td><td></td><td>0.3881</td><td></td><td></td><td></td><td></td></tr> <tr><td>CO EQPT - ANALOG SW</td><td>77C</td><td>1.0000</td><td></td><td></td><td>0.0000</td><td></td><td></td><td></td><td></td></tr> <tr><td>CO EQPT - DIGITAL SW</td><td>377C</td><td>1.0000</td><td></td><td></td><td>0.3468</td><td></td><td></td><td></td><td></td></tr> <tr><td>AERIAL CABLE (FIBER)</td><td>822C</td><td>1.0000</td><td></td><td></td><td>0.2963</td><td></td><td></td><td></td><td></td></tr> <tr><td>BURIED CABLE (FIBER)</td><td>845C</td><td>1.0000</td><td></td><td></td><td>0.2724</td><td></td><td></td><td></td><td></td></tr> <tr><td>UNDERGROUND (FO) CA</td><td>85C</td><td>1.0000</td><td></td><td></td><td>0.2689</td><td></td><td></td><td></td><td></td></tr> <tr><td>CONNECTORS</td><td>57C</td><td>1.0000</td><td></td><td></td><td>0.3881</td><td></td><td></td><td></td><td></td></tr> <tr><td>MISC. 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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	\$ 0.00	\$ 0.00					feed3sy		feed3sy	feed3mrc	feed3mrc	feed3mrc
PLANT ITEM	PLANT ACCT CODE	TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT																																																																																																																																																																																																																																																																			
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				feed3sy		feed3sy	feed3mrc	feed3mrc	feed3mrc																																																																																																																																																																																																																																																																		
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION. HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.																																																																																																																																																																																																																																																																											

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LOOP COST ANALYSIS TOOL

Bellcore (R)

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

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 28-Oct-95
TIME: 14:30

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

FOOTNOTES

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

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HELP SCREEN

Bellcore^(R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

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

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

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR033\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

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

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1995
TEST CASE: 1
LAST UPDATE: 28-Oct-95
TIME: 14:50

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

FOOTNOTES

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

C:\123R24\LCATR033\COSTMETH

HELP SCREEN**Belcore**^(TM)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

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

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

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CA\123R24\LCAT\03\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (P)	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 15-Jan-97	
LCAT Ref.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				15-Nov-96 02:01 PM	
STUDY NAME		1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 1 - BUSINESS ISDN		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL.		INVESTMENT YEAR	
				1996	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO		1	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
Type Percent Mix:					
100 FIBER IN THE LOOP					
0 COPPER DIG LOOP CXR					

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C:\123R24\LCATR033\CRITERIA		HELP SCREEN	Belcore TM
INPUT - STUDY SETUP			LCAT Rel. 1.0.4
Sheet 1 of 2			ISSUED: 3/31/95
THIS DISPLAY	This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.		
STUDY NAME	Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.		
COMMENTS	Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, , <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA.		
STUDY BASIS	Select with an 'X' either an average NETWORK study or an INDIVIDUAL CASE study.		
FACILITY TYPE	Select by entering the <u>percent of technology mix</u> , the Facility types in the loop network that support the service/s/ under study or enter an 'X' to denote inclusion.		
CELL DENSITY	Select by entering the percent of cell density mix, based upon the <u>space of the location</u> and the definitions of the cell layers: C1, C2, C3, C4; which represent the <u>VEBA HIGH, HIGH, MEDIUM, LOW</u> qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.		
***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION ***** ***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY ***** PRESS < Enter > KEY TO RETURN TO THE MAIN MENU			

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CA123R24\LCATRC33\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]					
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 15-Nov-96 TIME: 02:01 PM					
SELECTED QUESTIONS									
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ?		VALID RESPONSE SET N or A S or P N, W or B 2 or 4	<table border="1" style="width: 100%;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> </table>	NEW	SWITCHED	NARBAND	2	
NEW									
SWITCHED									
NARBAND									
2									
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connections are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?		0 → 100 0 → 100 0 → 100 e.g., 12000	<table border="1" style="width: 100%;"> <tr><td>100</td></tr> <tr><td>100</td></tr> <tr><td></td></tr> <tr><td>18000 Feet</td></tr> </table>	100	100		18000 Feet	
100									
100									
18000 Feet									
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is (e.g.: RATES PLAN, TEST DATA, NEW SERVICE) Required for the 'Footer' of each Report page.		F or D 1,2,3,4 0-6 T or M 0-999	<table border="1" style="width: 100%;"> <tr><td>FLAT RATE</td></tr> <tr><td>0</td></tr> <tr><td>COST</td></tr> <tr><td>TOTAL MORE</td></tr> <tr><td>RATES PLAN</td></tr> </table>	FLAT RATE	0	COST	TOTAL MORE	RATES PLAN
FLAT RATE									
0									
COST									
TOTAL MORE									
RATES PLAN									

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HELP SCREENBellcore[®]

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied. .
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements.
Using **6** for Switched Services or Using **7** for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1**, **2**, **3**, or **4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Cost results. 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\LCATR033\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN Sheet 1 / 1 COMPANY : CINCINNATI BELL TEL. CITY / AREA : CINCINNATI STATE / PROV : OHIO		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 28-Oct-96 TIME : 14:53

CIRCUIT DESIGN

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

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

(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES :

Proportion of Fiber Circuits
WITHOUT Fiber Hubs 0.0000

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech. 0.0000

Proportion of links on CDLC / MAR 0.0000

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES :

Proportion of Remote terminals
colocated at Customer Premises 0.0000

**CIRCUIT DESIGN REQUIREMENTS -
SELECTION & DISTRIBUTION:**

Note

FOR FIBER DLC DESIGNS:

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

FOR COPPER DLC DESIGNS:

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

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 SET OF STUDY PARAMETERS
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C:\123R24\LCATR033\DESIGN
 INPUT - LOOP_DESIGN
 Sheet 1 of 1

HELP SCREEN

Bellcore

LCAT Rel :1.0.4

Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

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

**SERVICE
SPECIFIC**

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

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C:\123R24\LCATR033\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore										
TABLE - SPAN_INV SHEET 1 / 4 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 14:56										
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		<table border="1" style="margin: auto;"> <tr><td>AERIAL</td><td>\$</td><td>0.2823</td></tr> <tr><td>BURIED</td><td>\$</td><td>0.2694</td></tr> <tr><td>UNDGRD</td><td>\$</td><td>0.1688</td></tr> </table>		AERIAL	\$	0.2823	BURIED	\$	0.2694	UNDGRD	\$	0.1688	per fiber pair Foot per fiber pair Foot per fiber pair Foot	
AERIAL	\$	0.2823												
BURIED	\$	0.2694												
UNDGRD	\$	0.1688												
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT														
Average Unit Investment for FIBER cable, Installed as		<table border="1" style="margin: auto;"> <tr><td>AERIAL</td><td>\$</td><td>0.2823</td></tr> <tr><td>BURIED</td><td>\$</td><td>0.2694</td></tr> <tr><td>UNDGRD</td><td>\$</td><td>0.1688</td></tr> </table>		AERIAL	\$	0.2823	BURIED	\$	0.2694	UNDGRD	\$	0.1688	per fiber pair Foot per fiber pair Foot per fiber pair Foot	
AERIAL	\$	0.2823												
BURIED	\$	0.2694												
UNDGRD	\$	0.1688												
		(Fiber Hub to Remote Terminal)		(Remote Terminal to Service Point)										

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CN123R2&LCATR033\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN_INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN				LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-95 TIME: 14:55	
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE							
Cable Sheath Sizes			Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size				
CAPACITY	INDEX	AERIAL	BURIED	UNDERGROUND			
4 Fiber Cable 2 pr	\$		\$		\$		
6 Fiber Cable 3 pr	\$		\$		\$		
12 Fiber Cable 6 pr	\$		\$		\$		
18 Fiber Cable 9 pr	\$		\$		\$		
24 Fiber Cable 12 pr	\$		\$		\$		
36 Fiber Cable 18 pr	\$		\$		\$		
48 Fiber Cable 24 pr	\$		\$		\$		
60 Fiber Cable 30 pr	\$		\$		\$		
72 Fiber Cable 36 pr	\$		\$		\$		
84 Fiber Cable 42 pr	\$		\$		\$		
96 Fiber Cable 48 pr	\$		\$		\$		
144 Fiber Cable 72 pr	\$		\$		\$		
192 Fiber Cable 96 pr	\$		\$		\$		
216 Fiber Cable 108 pr	\$		\$		\$		

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TABLE - SPAN_INV
SHEET 1 / 4

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TABLE - SPAN INV SHEET 2/4		LOOP FACILITY INPUT COPPER CABLE DATA FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY/AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				LAST UPDATE: 28-Oct-96	
						TIME: 14:56	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS							
Cable Gauge Mix:		GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge:		
The Proportion of		25 GA.	0.1500	0.1500	Update Cable Sheath Prices [Required with INDIVIDUAL Mode]		
Copper Cable that is		24 GA.	0.8500	0.8500	on the FULL SET Input SHEET? (Y/N)		
		22 GA.	0.0000	0.0000	If not, Update N		
Cable Type Mix, By Gauge:					GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
The Proportion of		25 GA.	AERIAL	0.1200	0.5900	Average Unit	
Copper Cable that is			BURIED	0.0000	0.1600	Investment for	
			UNDGRND	0.8800	0.2500	Copper Cable	
		24 GA.	AERIAL	0.1200	0.5900	installed as	
			BURIED	0.0000	0.1600	26 GA.	AERIAL \$ 0.0121 \$ 0.0397
			UNDGRND	0.8800	0.2500		BURIED \$ 0.0166 \$ 0.0657
		22 GA.	AERIAL	0.0000	0.0000		UNDGRND \$ 0.0109 \$ 0.0569
			BURIED	0.0000	0.0000	24 GA.	AERIAL \$ 0.0121 \$ 0.0397
			UNDGRND	0.0000	0.0000		BURIED \$ 0.0166 \$ 0.0657
			BURIED	0.0000	0.0000		UNDGRND \$ 0.0109 \$ 0.0569
			UNDGRND	0.0000	0.0000	22 GA.	AERIAL \$ 0.0000 \$ 0.0000
			BURIED	0.0000	0.0000		BURIED \$ 0.0000 \$ 0.0000
			UNDGRND	0.0000	0.0000		UNDGRND \$ 0.0000 \$ 0.0000
NOTE: If the DROP WIRE resource Investment is a zero value, 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 work sheet.							

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CA123R24LCATR033\FACILITY		LOOP COST ANALYSIS TOOL										Bellcore	
TABLE = SPAN INV SHEET 2A / 4		LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR										LCAT Ver: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996										STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996										TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN										LAST UPDATE: 28-Oct-96	
												TIME: 14:56	
COPPER CABLE INVESTMENT REFERENCE TABLE													
Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size													
Cable Sheath Sizes		Capacity	Gauge: =>	26 GA.			24 GA.			22 GA.			
			INDEX	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	
40	Copper Cable	20 pr	\$										
50	Copper Cable	25 pr	\$										
60	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

HELP SCREEN

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LCAT Rel: 1.0.4
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LOOP COST ANALYSIS TOOL

Bellcore®

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 28-Oct-96
TIME: 14:56COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 1 - BUSINESS ISDN

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...ds)	PER FOOT INVESTMENT (pft...ds)	CABLE GAUGE MIX (copper...ds)	ADJUSTED CABLE TYPE	ADJUSTED PFI
	[A]	[B]	[C]	[D=A*C]	[E=B*C]
CHARACTERISTICS FOR:					
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

--- TABLE 2 ---

--- TABLE 4 ---

Check = 1.00

--- TABLE 6 ---

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

Check = 1.000000

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

PAIR / FOOT INVESTMENT RENORMALIZED RANGE NAME	MELDED GAUGES
	[H=F*TYPE / sum(F*TYPE)]
	\$ 0.0786667
	\$ 0.2133333

Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR033\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore (P)	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTION'S MELDING WORKSHEET A FOR FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT			LCAT Rel: 1.0.4 Issue Date: 07/31/95 STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 28-Oct-96 TIME: 14:56	
COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				
MELDED CABLE INVESTMENT PER PAIR FOOT						
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...tdr)	PER FOOT INVESTMENT (pft...td)	CABLE GAUGE MIX (copper...tdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI	
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]	
AERIAL @ 26 GA.	0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815	
BURIED @ 26 GA.	0.000000	\$ 0.016500	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	\$ 0.016500	0.8500	0.000000	\$ 0.014110	
UNDGRND @ 24 GA.	0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.009285	
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000	
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000	
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000	
Check = 1.00						
TABLE 2		TABLE 4		TABLE 6		
DATA DESC.	CABLE TYPE MIX RANGE NAME	VELED GAUGES	PAIR /FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR /FOOT INVESTMENT RENORMALIZED RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR:	[F=sum(D*Type)]		[G=sum(E*Type)]		[H=sum(F*Type)]	
AERIAL	0.120000		\$ 0.012100		\$ 0.002490	
BURIED	0.000000		\$ 0.016500		\$ 0.000000	
UNDERGRND	0.880000		\$ 0.010900		\$ 0.000000	
Check = 1.000000		Check = 1.000000		Check = 1.000000		
FOOTNOTES						

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C:\123\24\LCAT\033\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA		LCAT Ver: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996		STUDY YR: 1996
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		LAST UPDATE: 28-Oct-96 TIME: 14:56
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS				
FOR DLC SYSTEMS ON COPPER LOOPS				
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :			24
Pair Gain Factor :	(When Investment Utilities or Band Width Mix are NOT Used)			
	The Average Number Of Voice Grade Circuit Equivalents Per System :			96
	The Average Number Of Transmission Pairs Plus Protection Per System :			10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :			2
	Ratio Of Required Pairs To Derived Pairs (Pair Gain Factor) :			0.1250
NOTE: ① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System Uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). The Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.				

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C:\123R24\LCATF033\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN**Bellcore**®

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

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

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C:\123R24\LCATR033\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore TM	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS WELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT SERVICE CLASS: BAND 1 - BUSINESS ISDN		STUDY YR: 1995 TEST CASE: 1000 DATE: 1 LAST UPDATE: 28-Oct-95 TIME: 14:58	
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT 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 - TABLE 4 -	
ADJUSTED PAIR / FOOT INVESTMENT DESCRIPTION	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PF)log ₁₀ (D)	REPEATER BY GAUGE 3PTR log ₁₀ (E=C)	WORKING CHANNEL INVESTMENT / FOOT (ADLCPF)log ₁₀ (F=D+E)	WORKING CHANNEL INVESTMENT / FOOT (ADLCPF)log ₁₀ (G)	
AERIAL @ 26 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200	
BURIED @ 26 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200	
UNDGRND @ 26 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800	
AERIAL @ 24 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200	
BURIED @ 24 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200	
UNDGRND @ 24 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800	
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000	
NOTES:					
① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.					

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C:\1123R24\LCAT\RC33\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]							
TABLE - SPAN_INV SHEET 4/4 COM. COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 14:56							
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS											
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :									
The Average Number of Terminals in the Service Access Segment of a Loop -											
Proportion of Loops that use.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial</td> <td>0.00</td> </tr> <tr> <td>Buried</td> <td>0.00</td> </tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial Termination</td> <td>0</td> </tr> <tr> <td>Buried Termination</td> <td>0</td> </tr> </table>	Aerial Termination	0	Buried Termination	0
Aerial	0.00										
Buried	0.00										
Aerial Termination	0										
Buried Termination	0										
The Average Drop Wire & Building Entrance Cable Installation -											
Proportion of Loops that use..	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Buried Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>1.0000</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>0.0000</td> </tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest. for DW Investment ? (Y/N)	N
Aerial Wire Drops	0.0000										
Buried Wire Drops	0.0000										
Bldg Entrance Cable	1.0000										
Aerial Coax/Wire Drops	0.0000										
		Per Unit Installation.....	<table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Buried Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>\$ 75.00</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>\$ 0.00</td> </tr> </table>	Aerial Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00
Aerial Wire Drops	\$ 0.00										
Buried Wire Drops	\$ 0.00										
Bldg Entrance Cable	\$ 75.00										
Aerial Coax/Wire Drops	\$ 0.00										
The Average Intrabuilding Cable Installation -											
Proportion of Installations with Intrabuilding Cable	0.0000	Per Instn for a Intrabuilding Network Cable Pair	\$ 0.00								

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ALCATR033\FACILITY
SPAN_INV
/4

HELP SCREEN

Bellcore®
LCAT Rel: 1.0.4
Issued: 07/31/85

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

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

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

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C:\123R24\LCATR033\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996	STUDY YEAR: 1996	STUDY YR: 1996
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 1 - BUSINESS ISDN		TEST CASE: 1
STATE / PROV: OHIO				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	0.2963	
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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C:\123R24\LCATR033\INVEST		LOOP COST ANALYSIS TOOL				Bellcore [®]	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA : CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV : OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				LAST UPDATE: 28-Oct-96 14:58	
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	\$ 381.90	\$ 39.17	\$ 348.82	\$ 141.70
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 49.18	\$ 3.88	\$ 53.79	\$ 2.01	
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
3. For a Fiber HUB and Fiber Remote Terminal Arrangement					\$ 0.00	\$ 0.00	
4. For Fiber Ring Hub Arrangements (Extensions)					\$ 0.00	\$ 0.00	
CEV HOUSING per CIRCUIT by SERVICE LEVEL :							
For CEV's used as fiber hubs for FO Multiplexer equipment						\$ 0.00	
For CEV's used as remote terminals for CDLC equipment						\$ 0.00	
[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service rates]							

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TABLE - EQUIP_INV		LCAT Rel : 1.0.4
HELP INFORMATION		Issued : 07/31/95

<u>LCAT Commands</u>	<u>Description</u>
	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.

<u>Line Items</u>	<u>Description</u>
	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.

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

See Circuit Designs :

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - ADDNL_INV
Sheet 1 of 2INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORSLCAT Rel: 1.0.4
Issued: 3/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 28-Oct-95
TIME: 14:59COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - BUSINESS ISDN

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

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

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:	1.0000
PC Hut:	1.0000
Comm. Svc. Cab.	1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4
Issued : 3/31/93

NOTE :

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

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

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C:\123R24\LCATR033\LOADING		LOOP COST ANALYSIS TOOL		Bellcore ^(R)																																																											
TABLE - ADDNL INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 14:58																																																											
SEGMENT DISTRIBUTION FEEDER ② use DEFAULT POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table> CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>The Cable PFI is being Adjusted for DW?</td> <td style="text-align: center;">NO</td> </tr> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </table> use DEFAULT ① for: CENT. OFC. ② REMOTE SITE LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td style="text-align: center;">0.00561</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.00561</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.00561</td> <td style="text-align: center;">0.0056</td> </tr> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td style="text-align: center;">0.11271</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.11271</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.11271</td> <td style="text-align: center;">0.1127</td> </tr> </table>					Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment			Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment			Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			The Cable PFI is being Adjusted for DW?	NO	Aerial Cable		Buried Cable		Underground Cable		Other or ALL ①	0.00561	0.0056	Digital Loop Carrier	0.00561	0.0056	Fiber Optic Mux	0.00561	0.0056	Other or ALL ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or ALL ①	0.11271	0.1127	Digital Loop Carrier	0.11271	0.1127	Fiber Optic Mux	0.11271	0.1127
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TABLE - ADDNL_INV
Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4
Issued : 3/31/95

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

NOTES

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

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

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C:\123R24\LCATR033\SPAN		LOOP COST ANALYSIS TOOL		Bellcore®
INPUT - PLANT_CHAR. Sheet 1 / 5		LOOP FACILITY INPUT		LCAT Rel: 1.0.4
		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996	STUDY YR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996	LAST UPDATE: 28-Oct-96	TIME: 15:03
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		
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 7977.0		
②	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION 971.0		
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 6708.0		
⑤	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION		
LOOP LENGTH AT EACH COST BAND		DISTRIBUTION OF COST BANDS IN THE NETWORK		
BAND 1		BAND 1		
BAND 2		BAND 2		
BAND 3		BAND 3		
BAND 4		BAND 4		
BAND 5		BAND 5		
LAST 7977.0		LAST 1.0000 1.0000 Hint		

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C:\123R24\LCATR033\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (P)	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT		LCAT Rel : 1.0.4	
Sheet 1 / 1		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR : 1996		STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		SERVICE CLASS : BAND 1 - BUSINESS ISDN		LAST UPDATE : 28-Oct-96	
				TIME : 15:09	
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY					

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C:\123R24\LCATR033\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 cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.				
BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations.				
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES. ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****				
PRESS 'ENTER' TO RETURN TO THE MAIN MENU				

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C:\123R24\LCATR033\SPAN		LOOP COST ANALYSIS TOOL		Bellcore	
INPUT - PLANT - CORR.		HELP SCREEN		LCAT Rev: 1.0.4	
Sheet 2 of 2				Issued: 07/31/95	
COST DETAILS	When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User. When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.				
LOOP TOPOLOGY	When the Loop Topology (circuit layout format) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.				
***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****					
PRESS "ENTER" TO RETURN TO THE MAIN MENU					

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C:\123R24\LCATR033\SPAN		LOOP COST ANALYSIS TOOL						Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 2a / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER						LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: 0 CITY/AREA: 0 STATE/PCV: 0		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 15:03	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A					
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER			
		CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT		
CAPACITY [C]		idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E _U]	[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				AERIAL FIBER SUBTOTAL				10.9	
BURIED FIBER SUBTOTAL				BURIED FIBER SUBTOTAL				0.0	
UNDGRD FIBER SUBTOTAL				UNDGRD FIBER SUBTOTAL				0.0	
FIBER SUBTOTAL				FIBER SUBTOTAL				10.9	

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PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR : 1996			
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE : 1			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				LAST UPDATE: 26-Oct-95			
						TIME : 15:03			
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B					
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E] WKSH A / [F] WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B									
		CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
For these sizes ...		[C]	idx	[A]	[B]	[A]	[B]	[A]	[B]
4	FIBER CABLE	2 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
6	FIBER CABLE	3 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
12	FIBER CABLE	6 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
18	FIBER CABLE	9 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
24	FIBER CABLE	12 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
36	FIBER CABLE	18 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
48	FIBER CABLE	24 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
60	FIBER CABLE	30 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
72	FIBER CABLE	36 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
84	FIBER CABLE	42 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
96	FIBER CABLE	48 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
144	FIBER CABLE	72 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
192	FIBER CABLE	96 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
216	FIBER CABLE	108 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
SUBTOTAL					\$ 0.00		\$ 0.00		\$ 0.00

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INPUT - PLANT_CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER FOR			LCAT Rev: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 15:03						
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS									
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT									
CABLE SHEATH SIZES	CAPACITY 15X	26 GA.			24 GA.			22 GA.			
		AERIAL	BURIED	UNDOGRD	AERIAL	BURIED	UNDOGRD	AERIAL	BURIED	UNDOGRD	
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										fdraopr
6000 COPPER CABLE	3000 pr										0.0
7200 COPPER CABLE	3600 pr										fdrcopr
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	fdraopr
TOTALS				0.0						0.0	0.0

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PLANT CHAR - WORKSHEET 3B Sheet 3a / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR						LCAT Rev: 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: 28-Oct-95 TIME: 15:00		
SERVICE CLASS: BAND 1 - BUSINESS			WORKSHEET B								
NETWORK CIRCUIT LAYOUT STUDIES			CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY		26 GA.			24 GA.			22 GA.		
	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BURIED CABLE SUBTOTAL				0.00	0.00		0.00	0.00		0.00	0.00
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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C:\123R24\LCATR033\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 48 Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR						LCAT Rpt: 1.0.4 Issued: 07/31/95			
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996						STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996						TEST CASE: 1			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS						LAST UPDATE: 25-Oct-95			
								TIME: 15:03			
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET 8									
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES	CAPACITY idx		25 GA.			24 GA.			22 GA.		
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	500 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
3800 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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C:\123R24\LCATR033\SPAN		LOOP COST ANALYSIS TOOL								Bellcore (R)	
INPUT - PLANT_CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR								LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 15:03	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS ISDN									
FIBER BANDWIDTH											
TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL											
LEVEL OF SERVICE: <u>NARBAND</u>											
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE	PROTECTION	WEIGHTED	
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	1180 Mbps	0	0	0	LEVEL		EQUIVALENT	
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE	n:1	CHANNELS	
VOICE GRADE CHANNELS	672	1344	2016	2588	0	0	0	[SLM]	[E]	PER FOPAR	[F]
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	21	1	1979.04	
(USE 00)											
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	21	1	1979.04	
(USE 00)											
CONFIDENTIAL											
FOOTNOTES 1 Where Service Level Multiple EQUALS (1 for NARBAND, 28 for WIDEBAND, 672 for BROADBAND) TIMES (2 for Unidirectional and 1 for Bidirectional) 2 Where Wtd Eqv Chan per FO Pr [F] EQUALS (The Avg Wtd VGE for BR1 -> 7) DIVIDED BY (The [SLM] TIMES (1 PLUS OVER PROT [E])											

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

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1995

TEST CASE: 1

LAST UPDATE: 25-Oct-95

TIME: 15:03

WORKSHEET DS

DIGITAL SIGNAL TABLE (digital to)						
SELECT	MODE	FIBER	ARC	DS1MULT	DS3MULT	VGE MEDIA
0						
1		DS1	1.5 Mbps	1	0.04	24 BIDIR, 2WCU CA
2	MODE3	DS1	1.5 Mbps	1	0.04	24 UNDIR, 4WCU CA
3		VT1	1.5 Mbps	1	0.04	24 UNDIR, FIBER
4		VT2	1.5 Mbps	1	0	UNDIR, FIBER
5		ET	1.2 Mbps	1	0.05	30 BIDIR, 2WCU CA
6	MODE1	DS1C	1.2 Mbps	1NA		48 BIDIR, 2WCU CA
7	MODE2	DS1C	1.2 Mbps	2	0.07	48 BIDIR, 2WCU CA
8		VT3	1.2 Mbps	2	0.07	56 UNDIR, FIBER
9			4 Mbps	2	0	60
10		DS2	1.6.3 Mbps	4	0.14	72 BIDIR, 2WCU CA
11	MODE4	DS2	1.6.3 Mbps	1NA	0	72 BIDIR, 2WCU CA
12		VT6	1.6.3 Mbps	4	0.14	84 UNDIR, FIBER
13		E2	1.8 Mbps	4	0.25	120 BIDIR, 2WCU CA
14		E3	1.34 Mbps	16		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	1.35 Mbps		3	2016 UNDIR, FIBER
20			1.35 Mbps		3	2016 BIDIR, MW RADIO
21		DS4NA	1.39 Mbps		3	2016 UNDIR, FIBER
22		E4	1.40 Mbps		3	1920 UNDIR, FIBER
23		T4M	1.39 Mbps		6	4032 BIDIR, COAX
24		P140	1.39 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	1.5 Gbps		24	16128 UNDIR, FIBER
34			2.5 Gbps			54560 UNDIR, FIBER
35						
36						
0	1	2	3	4	5	6
OFFSET						

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PLANT CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/96

STUDY YR.: 1996

TEST CASE: 1

LAST UPDATE: 26-Oct-96

TIME: 15:03

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - BUSINESS
WORKSHEET F

[A] BAND NUMBER [C]	NUMBER OF BANDS: [B] TOTAL WORKING FEET [D=input]	0.4 MILE BETWEEN BANDS 0 TO BE CARRIED INTO THE STUDY TOTAL WORKING FEET [E=(B*D)]	TOTAL AIR FEET [F=A*C*K]	[R] [K] ROUTE TO AIR RATIO: 1.539947 UNIT MILE/FEET CONSTANT: 1320	WORKING FEET @ MIDPOINT [H=G*R]
1		0		0	0
2		0		0	0
3		0		0	0
4		0		0	0
5		0		0	0

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

ERROR MESSAGE 0

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LOOP COST ANALYSIS TOOL										Bellcore [®]																																																																																																																																																																																																																																																																																																																																				
C:\123R24\LCATR033\SPAN PLANT CHAR. - WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO										LCAT Rpt: T.D.A. Issued: 07/31/95 STUDY YR: 1995 TEST CASE: 1 LAST UPDATE: 28-Oct-95 TIME: 15:09																																																																																																																																																																																																																																																																																																																																				
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<table border="1" style="width: 100%; border-collapse: collapse; font-family: monospace; font-size: 0.8em;"> <thead> <tr> <th colspan="2">OFFSET</th> <th colspan="10">Sub Feeder Allocation Table</th> </tr> <tr> <th></th> <th></th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td colspan="13"> cur lplgth = 7977 dlcdempl = 18000 nom_range = 18000 [C] [D=C-I] NO COLOCATED STOPS = BUS dstops = STAF [E] [F=D-G] COLOCATED RT AND CP, where COLOCATED STOPS = BUS dstops = STAF [H] [I=J-K] prfeeder subfeeder [L=C-K] [M=A-C] </td> </tr> <tr><td>500</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>500</td><td>0</td><td>500</td><td>0</td><td>7977</td></tr> <tr><td>1000</td><td>29</td><td>29</td><td>0</td><td>0</td><td>29</td><td>0</td><td>1000</td><td>0</td><td>1000</td><td>0</td><td>0</td><td>7477</td></tr> <tr><td>2000</td><td>1029</td><td>1029</td><td>0</td><td>0</td><td>1029</td><td>0</td><td>2000</td><td>0</td><td>2000</td><td>0</td><td>0</td><td>6977</td></tr> <tr><td>3000</td><td>2029</td><td>2029</td><td>0</td><td>0</td><td>2029</td><td>0</td><td>3000</td><td>0</td><td>3000</td><td>0</td><td>0</td><td>5977</td></tr> <tr><td>4000</td><td>3029</td><td>3029</td><td>0</td><td>0</td><td>3029</td><td>0</td><td>4000</td><td>0</td><td>4000</td><td>0</td><td>0</td><td>4977</td></tr> <tr><td>5000</td><td>4029</td><td>4029</td><td>0</td><td>0</td><td>4029</td><td>0</td><td>5000</td><td>0</td><td>5000</td><td>0</td><td>0</td><td>3977</td></tr> <tr><td>6000</td><td>5029</td><td>5029</td><td>0</td><td>0</td><td>5029</td><td>0</td><td>6000</td><td>0</td><td>6000</td><td>0</td><td>0</td><td>2977</td></tr> <tr><td>7000</td><td>6029</td><td>6029</td><td>0</td><td>0</td><td>6029</td><td>0</td><td>7000</td><td>0</td><td>7000</td><td>0</td><td>0</td><td>1977</td></tr> <tr><td>8000</td><td>7029</td><td>7029</td><td>0</td><td>0</td><td>7029</td><td>0</td><td>8000</td><td>0</td><td>8000</td><td>0</td><td>0</td><td>977</td></tr> <tr><td>9000</td><td>8029</td><td>8029</td><td>0</td><td>0</td><td>8029</td><td>0</td><td>9000</td><td>0</td><td>9000</td><td>0</td><td>0</td><td>-23</td></tr> <tr><td>10000</td><td>9029</td><td>9029</td><td>0</td><td>0</td><td>9029</td><td>0</td><td>10000</td><td>0</td><td>10000</td><td>0</td><td>0</td><td>-1023</td></tr> <tr><td>11000</td><td>10029</td><td>10029</td><td>0</td><td>0</td><td>10029</td><td>0</td><td>11000</td><td>0</td><td>11000</td><td>0</td><td>0</td><td>-2023</td></tr> <tr><td>12000</td><td>11029</td><td>11029</td><td>0</td><td>0</td><td>11029</td><td>0</td><td>12000</td><td>0</td><td>12000</td><td>0</td><td>0</td><td>-3023</td></tr> <tr><td>13000</td><td>12029</td><td>12029</td><td>0</td><td>0</td><td>12029</td><td>0</td><td>13000</td><td>0</td><td>13000</td><td>0</td><td>0</td><td>-4023</td></tr> 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<tr><td>19000</td><td>18029</td><td>9014.5</td><td>9014.5</td><td>0</td><td>18029</td><td>9500</td><td>9500</td><td>0</td><td>19000</td><td>0</td><td>0</td><td>-10023</td></tr> <tr><td>20000</td><td>19029</td><td>9514.5</td><td>9514.5</td><td>0</td><td>19029</td><td>10000</td><td>10000</td><td>0</td><td>20000</td><td>0</td><td>0</td><td>-11023</td></tr> <tr><td>80000</td><td>79029</td><td>17029</td><td>62000</td><td>1000</td><td>78029</td><td>17029</td><td>62971</td><td>1000</td><td>79000</td><td>0</td><td>0</td><td>-72023</td></tr> </tbody> </table>											OFFSET		Sub Feeder Allocation Table												0	1	2	3	4	5	6	7	8	9	10	cur lplgth = 7977 dlcdempl = 18000 nom_range = 18000 [C] [D=C-I] NO COLOCATED STOPS = BUS dstops = STAF [E] [F=D-G] COLOCATED RT AND CP, where COLOCATED STOPS = BUS dstops = STAF [H] [I=J-K] prfeeder subfeeder [L=C-K] [M=A-C]													500	0	0	0	0	0	0	0	500	0	500	0	7977	1000	29	29	0	0	29	0	1000	0	1000	0	0	7477	2000	1029	1029	0	0	1029	0	2000	0	2000	0	0	6977	3000	2029	2029	0	0	2029	0	3000	0	3000	0	0	5977	4000	3029	3029	0	0	3029	0	4000	0	4000	0	0	4977	5000	4029	4029	0	0	4029	0	5000	0	5000	0	0	3977	6000	5029	5029	0	0	5029	0	6000	0	6000	0	0	2977	7000	6029	6029	0	0	6029	0	7000	0	7000	0	0	1977	8000	7029	7029	0	0	7029	0	8000	0	8000	0	0	977	9000	8029	8029	0	0	8029	0	9000	0	9000	0	0	-23	10000	9029	9029	0	0	9029	0	10000	0	10000	0	0	-1023	11000	10029	10029	0	0	10029	0	11000	0	11000	0	0	-2023	12000	11029	11029	0	0	11029	0	12000	0	12000	0	0	-3023	13000	12029	12029	0	0	12029	0	13000	0	13000	0	0	-4023	14000	13029	13029	0	0	13029	0	14000	0	14000	0	0	-5023	15000	14029	14029	0	0	14029	0	15000	0	15000	0	0	-6023	16000	15029	15029	0	0	15029	0	16000	0	16000	0	0	-7023	17000	16029	16029	0	0	16029	0	17000	0	17000	0	0	-8023	18000	17029	8514.5	8514.5	0	17029	9000	9000	0	18000	0	0	-9023	19000	18029	9014.5	9014.5	0	18029	9500	9500	0	19000	0	0	-10023	20000	19029	9514.5	9514.5	0	19029	10000	10000	0	20000	0	0	-11023	80000	79029	17029	62000	1000	78029	17029	62971	1000	79000	0	0	-72023
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RULES ASSUMPTION - Table LOOKUP will select from the table NOM_RANGE and CUR_LPLGTH intermediate value #CUR_LPLGTH is <= DISTSPAN, then CUR_SEGLGTH _{cur} Equals CUR_LPLGTH - NOM_RANGE difference > DISTSPAN and < DLCDPL, then CUR_SEGLGTH _{cur} Equals CUR_LPLGTH - NOM_RANGE difference > DLCDPL, then CUR_SEGLGTH _{cur} Equals CUR_LPLGTH - NOM_RANGE difference																																																																																																																																																																																																																																																																																																																																														
CUR_SEGLGTH - Calculation Assumptions The DISTSPAN can not exceed the DLCDPL value input on CRITERIA. Therefore, set the DLCDPL at the DISTSPAN to get an ALL FIBER Network.																																																																																																																																																																																																																																																																																																																																														

OHIO ONLY
3 Geographic Areas
ISDN

10/10/96 Revised

Band 1

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

Band 2

8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.6524		
13	0-18,000	0.3165			0.3476		
14	18,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,112	1,095	5,608
16	# Of Entries	48			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,388	3,479	27,360
18	# Of Entries	56			10		
19	Ratio	0.4510			0.0025		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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GC:\123R24\LCATR034\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORT**Ballicore** (R)LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS ISDN
TOTAL LOOP LENGTH: 21320 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:22Loop Span Set Weighting: ☐ 1 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

PLANT NAME FEEDER DISTRIBUTION NETWORK
SEG. NAME PRIMARY EXTENSION SUB- INTERFACETOTAL
LOOPEQPT
CODEPLANT
ITEM DESCRIPTION SEG. LGTH.**SHARED RESOURCES**

8	LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0723
9	BUILDING	10C	\$ 2.15	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.1481
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	MISC. COM EQP & PWR	57C	\$ 0.19	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.1934
26	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000

DIRECT RESOURCES

30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.02	\$ 4.77	\$ 0.00	\$ 4.7900
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.84	\$ 0.00	\$ 1.8400
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 2.63	\$ 0.00	\$ 2.7800
37	CO EQPT - LOW CAP TERM	257C	\$ 6.55	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6.5469
38	CO EQPT - LOW CAP CHAN	257C	\$ 16.12	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.1163
39	CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.1818
40	CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.3302
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.04	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0368
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.09	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0897
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.01	\$ 0.00	\$ 0.01	\$ 1.44	\$ 0.00	\$ 1.1592
49	CONDUIT	4C	\$ 0.04	\$ 0.00	\$ 0.00	\$ 0.93	\$ 0.00	\$ 1.0240

SPAN SUMMARY

\$ 30.77

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\$ 2.45

\$ 44.76

\$ 44.76

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C:\123R24 LCATR034\RESULTS1
OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY INTRASTAT

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	16:57
CST METH	UN INCR	INV LEVEL	ANN COST	TIME

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.....your report is ready for viewing
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55C:\123R24\LCATR034\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellicore[®]LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS ISDN
TOTAL LOOP LENGTH: 21320 FEETSTUDY YR: 1998
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:22

Circuit Design Mix: 1.00001

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A D BAND STUDY

WEIGHTED

PLANT	SEG. NAME	EQPT	CODE	PRIMARY	FEEDER	EXTENSION	SUB-	DISTRIBUTION NETWORK	INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
SHARED RESOURCES											
LAND	20C			\$ 0.06			\$ 0.00	\$ 0.00		\$ 0.06	\$ 0.06
BUILDING	10C			\$ 1.76			\$ 0.00	\$ 0.00		\$ 1.76	\$ 1.76
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			\$ 0.38			\$ 0.02	\$ 4.77		\$ 5.17	\$ 5.17
BURIED CABLE (COPPER)	45C			\$ 0.00			\$ 0.00	\$ 1.84		\$ 1.84	\$ 1.84
UNDERGROUND (CU) CA.	5C			\$ 2.31			\$ 0.15	\$ 2.63		\$ 5.09	\$ 5.09
CO EQPT - LOW CAP TERM	257C			\$ 9.10			\$ 0.00	\$ 0.00		\$ 9.10	\$ 9.10
CO EQPT - LOW CAP CHAN	257C			\$ 16.12			\$ 0.00	\$ 0.00		\$ 16.12	\$ 16.12
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			\$ 0.09			\$ 0.01	\$ 1.14		\$ 1.24	\$ 1.24
CONDUIT	4C			\$ 0.82			\$ 0.05	\$ 0.93		\$ 1.80	\$ 1.80

SPAN SUMMARY

\$ 30.64 \$ 0.00 \$ 0.23

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\$ 44.63

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A C C O U N T		C:\123R24\LCATR034\RESULTS1 OUTPUT - WORKSHEET D SHEET 2 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore® LCAT Ref: 1.0.4 Issued: 7/31/95	
		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 CDLC		STUDY YR: 1996			
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
		STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		DATE: 23-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21320 FEET		TIME: 09:22			
0		Circuit Design Mix: 0.0500 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	SUB-	DISTRIBUTION NETWORK	TOTAL	WEIGHTED		
2		SEG. NAME	PRIMARY	EXTENSION	INTERFACE	LOOP	TOTAL		
3		EQPT							
4		PLANT	CODE						
5		ITEM DESCRIPTION							
6		<u>SHARED RESOURCES</u>							
7		LAND	20C			\$0	\$0		
8		BUILDING	10C			\$0	\$0		
9		BLDG ENTRANCE CABLE	12C			\$0	\$0		
10		INTRABLDG CABLE	52C			\$0	\$0		
11		AERIAL CABLE (COPPER)	22C			\$0	\$0		
12		BURIED CABLE (COPPER)	45C			\$0	\$0		
13		UNDERGROUND (CU) CA.	5C			\$0	\$0		
14		CO EQPT - LOW CAP TERM	257C			\$0	\$0		
15		CO EQPT - LOW CAP CHAN	257C			\$0	\$0		
16		CO EQPT - HI CAP TERM	857C			\$0	\$0		
17		CO EQPT - HI CAP CHAN	857C			\$0	\$0		
18		CO EQPT - ANALOG SW	77C			\$0	\$0		
19		CO EQPT - DIGITAL SW	377C			\$0	\$0		
20		AERIAL CABLE (FIBER)	822C			\$0	\$0		
21		BURIED CABLE (FIBER)	845C			\$0	\$0		
22		UNDERGROUND (FO) CA.	85C			\$0	\$0		
23		CONNECTORS	57C			\$0	\$0		
24		MISC. COM EQP & PWR	57C			\$0	\$0		
25		POLE LINE	1C			\$0	\$0		
26		CONDUIT	4C			\$0	\$0		
27									
28		<u>DIRECT RESOURCES</u>							
29		LAND	20C			\$0	\$0		
30		BUILDING	10C			\$0	\$0		
31		BLDG ENTRANCE CABLE	12C			\$0	\$0		
32		INTRABLDG CABLE	52C			\$0	\$0		
33		AERIAL CABLE (COPPER)	22C			\$0	\$0		
34		BURIED CABLE (COPPER)	45C			\$0	\$0		
35		UNDERGROUND (CU) CA.	5C			\$0	\$0		
36		CO EQPT - P GAIN TERM	257C			\$0	\$0		
37		CO EQPT - P GAIN CHAN	257C			\$0	\$0		
38		CO EQPT - FO MUX TERM	857C			\$0	\$0		
39		CO EQPT - FO MUX CHAN	857C			\$0	\$0		
40		CO EQPT - ANALOG SW	77C			\$0	\$0		
41		CO EQPT - DIGITAL SW	377C			\$0	\$0		
42		AERIAL CABLE (FIBER)	822C			\$0	\$0		
43		BURIED CABLE (FIBER)	845C			\$0	\$0		
44		UNDERGROUND (FO) CA.	85C			\$0	\$0		
45		CONNECTORS	57C			\$0	\$0		
46		MISC. COM EQP & PWR	57C			\$0	\$0		
47		POLE LINE	1C			\$0	\$0		
48		CONDUIT	4C			\$0	\$0		
49									
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51		SPAN SUMMARY						\$0	\$0
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C:\123R24\LCATR034\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10

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

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT DESIGN: MELDED CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - BUSINESS ISDN
TOTAL LOOP LENGTH: 21320 FEET

LCAT Rel: 1.0.4
Issued: 7/31/95

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:22

Technology Type Mix: 0.0000

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

TECHNOLOGY WEIGHTED TOTAL LOOP

PLANT ITEM DESCRIPTION	PLANT NAME SEG. NAME EQPT CODE	FEEDER					DISTRIBUTION NETWORK INTERFACE	TOTAL LOOP	WEIGHTED TOTAL LOOP
		PRIMARY	EXTENSION	SUB-					
SHARED RESOURCES									
LAND	20C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.0000	
BUILDING	10C	\$ 1.76	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.76	\$ 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	\$ 0.38	\$ 0.00	\$ 0.02	\$ 4.77	\$ 0.00	\$ 5.17	\$ 0.0000	
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.84	\$ 0.00	\$ 1.84	\$ 0.0000	
UNDERGROUND (CU) CA.	5C	\$ 2.31	\$ 0.00	\$ 0.15	\$ 2.63	\$ 0.00	\$ 5.09	\$ 0.0000	
CO EQPT - P GAIN TERM	257C	\$ 9.10	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 9.10	\$ 0.0000	
CO EQPT - P GAIN CHAN	257C	\$ 16.12	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.12	\$ 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	\$ 0.09	\$ 0.00	\$ 0.01	\$ 1.14	\$ 0.00	\$ 1.24	\$ 0.0000	
CONDUIT	4C	\$ 0.82	\$ 0.00	\$ 0.05	\$ 0.93	\$ 0.00	\$ 0.98	\$ 0.0000	
SPAN SUMMARY		\$ 30.64	\$ 0.00	\$ 0.00	\$ 11.51	\$ 2.45	\$ 44.63	\$ 0.00	
TECHNOLOGY DESIGN SUMMARY							\$ 44.63		

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A B C D E F G		LOOP COST ANALYSIS TOOL										Bellcore	
0		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
1		Circuit Design Mix: 0.0000										Issued: 7/31/95	
2		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY										STUDY YR: 1996	
3		PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK										TEST CASE: 1	
4		SEG. NAME PRIMARY EXTENSION SUB- INTERFACE										RUN DATE: 23-Jan-97	
5		EQPT										TIME: 09:22	
6		PLANT CODE										TOTAL LOOP	
7		ITEM DESCRIPTION										WEIGHTED TOTAL LOOP	
8		SHARED RESOURCES											
9		LAND 20C										\$0	
10		BUILDING 10C										\$0	
11		BLDG ENTRANCE CABLE 12C										\$0	
12		INTRABLDG CABLE 52C										\$0	
13		AERIAL CABLE (COPPER) 22C										\$0	
14		BURIED CABLE (COPPER) 45C										\$0	
15		UNDERGROUND (CU) CA. 5C										\$0	
16		CO EQPT - LOW CAP TERM 257C										\$0	
17		CO EQPT - LOW CAP CHAN 257C										\$0	
18		CO EQPT - HI CAP TERM 857C										\$0	
19		CO EQPT - HI CAP CHAN 857C										\$0	
20		CO EQPT - ANALOG SW 77C										\$0	
21		CO EQPT - DIGITAL SW 377C										\$0	
22		AERIAL CABLE (FIBER) 822C										\$0	
23		BURIED CABLE (FIBER) 845C										\$0	
24		UNDERGROUND (FO) CA. 85C										\$0	
25		CONNECTORS 57C										\$0	
26		MISC. COM EQP & PWR 57C										\$0	
27		POLE LINE 1C										\$0	
28		CONDUIT 4C										\$0	
29		DIRECT RESOURCES											
30		LAND 20C										\$0	
31		BUILDING 10C										\$0	
32		BLDG ENTRANCE CABLE 12C										\$0	
33		INTRABLDG CABLE 52C										\$0	
34		AERIAL CABLE (COPPER) 22C										\$0	
35		BURIED CABLE (COPPER) 45C										\$0	
36		UNDERGROUND (CU) CA. 5C										\$0	
37		CO EQPT - LOW CAP TERM 257C										\$0	
38		CO EQPT - LOW CAP CHAN 257C										\$0	
39		CO EQPT - HI CAP TERM 857C										\$0	
40		CO EQPT - HI CAP CHAN 857C										\$0	
41		CO EQPT - ANALOG SW 77C										\$0	
42		CO EQPT - DIGITAL SW 377C										\$0	
43		AERIAL CABLE (FIBER) 822C										\$0	
44		BURIED CABLE (FIBER) 845C										\$0	
45		UNDERGROUND (FO) CA. 85C										\$0	
46		CONNECTORS 57C										\$0	
47		MISC. COM EQP & PWR 57C										\$0	
48		POLE LINE 1C										\$0	
49		CONDUIT 4C										\$0	
50		SPAN SUMMARY										\$0	
51												\$0	
52												\$0	
53												\$0	
54												\$0	
55												\$0	

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CA123R24\LCATR034\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		RUN DATE: 23-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21320 FEET		TIME: 09:22			
Circuit Design Mix: 0.0050 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	SUB-	DISTRIBUTION NETWORK	TOTAL	WEIGHTED	
	SEG. NAME	PRIMARY	EXTENSION	INTERFACE	LOOP	TOTAL	LOOP
	EQPT						
	PLANT CODE						
	ITEM DESCRIPTION						
	SHARED RESOURCES						
	LAND	20C			\$0	\$0	
	BUILDING	10C			\$0	\$0	
	BLDG ENTRANCE CABLE	12C			\$0	\$0	
	INTRABLDG CABLE	52C			\$0	\$0	
	AERIAL CABLE (COPPER)	22C			\$0	\$0	
	BURIED CABLE (COPPER)	45C			\$0	\$0	
	UNDERGROUND (CU) CA.	5C			\$0	\$0	
	CO EQPT - LOW CAP TERM	257C			\$0	\$0	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$0	
	CO EQPT - HI CAP TERM	857C			\$0	\$0	
	CO EQPT - HI CAP CHAN	857C			\$0	\$0	
	CO EQPT - ANALOG SW	77C			\$0	\$0	
	CO EQPT - DIGITAL SW	377C			\$0	\$0	
	AERIAL CABLE (FIBER)	822C			\$0	\$0	
	BURIED CABLE (FIBER)	845C			\$0	\$0	
	UNDERGROUND (FO) CA.	85C			\$0	\$0	
	CONNECTORS	57C			\$0	\$0	
	MISC. COM EQP & PWR	57C			\$0	\$0	
	POLE LINE	1C			\$0	\$0	
	CONDUIT	4C			\$0	\$0	
	DIRECT RESOURCES						
	LAND	20C			\$0	\$0	
	BUILDING	10C			\$0	\$0	
	BLDG ENTRANCE CABLE	12C			\$0	\$0	
	INTRABLDG CABLE	52C			\$0	\$0	
	AERIAL CABLE (COPPER)	22C			\$0	\$0	
	BURIED CABLE (COPPER)	45C			\$0	\$0	
	UNDERGROUND (CU) CA.	5C			\$0	\$0	
	CO EQPT - LOW CAP TERM	257C			\$0	\$0	
	CO EQPT - LOW CAP CHAN	257C			\$0	\$0	
	CO EQPT - HI CAP TERM	857C			\$0	\$0	
	CO EQPT - HI CAP CHAN	857C			\$0	\$0	
	CO EQPT - ANALOG SW	77C			\$0	\$0	
	CO EQPT - DIGITAL SW	377C			\$0	\$0	
	AERIAL CABLE (FIBER)	822C			\$0	\$0	
	BURIED CABLE (FIBER)	845C			\$0	\$0	
	UNDERGROUND (FO) CA.	85C			\$0	\$0	
	CONNECTORS	57C			\$0	\$0	
	MISC. COM EQP & PWR	57C			\$0	\$0	
	POLE LINE	1C			\$0	\$0	
	CONDUIT	4C			\$0	\$0	
	SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0

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C:\123R24\LCATR034\RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 6 of 10							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 3 FOMUX					STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN					RUN DATE: 23-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21320 FEET					TIME: 09:22	

Circuit Design Mix: 1.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED		
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT								LOOP	
PLANT								LOOP	
CODE									
ITEM DESCRIPTION									
SHARED RESOURCES									
LAND		20C		\$ 0.07		\$ 0.00		\$ 0.07	
BUILDING		10C		\$ 2.15		\$ 0.00		\$ 2.15	
BLDG ENTRANCE CABLE		12C		\$ 0.00		\$ 0.00		\$ 0.00	
INTRABLDG CABLE		52C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (COPPER)		22C		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (COPPER)		45C		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (CU) CA.		5C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP TERM		257C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP CHAN		257C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP TERM		857C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP CHAN		857C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - ANALOG SW		77C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - DIGITAL SW		377C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (FIBER)		822C		\$ 0.00		\$ 0.00		\$ 0.00	
BURIED CABLE (FIBER)		845C		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (FO) CA.		85C		\$ 0.00		\$ 0.00		\$ 0.00	
CONNECTORS		57C		\$ 0.00		\$ 0.00		\$ 0.00	
MISC. COM EQP & PWR		57C		\$ 0.19		\$ 0.00		\$ 0.19	
POLE LINE		1C		\$ 0.00		\$ 0.00		\$ 0.00	
CONDUIT		4C		\$ 0.00		\$ 0.00		\$ 0.00	
DIRECT RESOURCES									
LAND		20C		\$ 0.00		\$ 0.00		\$ 0.00	
BUILDING		10C		\$ 0.00		\$ 0.00		\$ 0.00	
BLDG ENTRANCE CABLE		12C		\$ 0.00		\$ 0.00		\$ 2.45	
INTRABLDG CABLE		52C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (COPPER)		22C		\$ 0.00		\$ 0.02		\$ 4.77	
BURIED CABLE (COPPER)		45C		\$ 0.00		\$ 0.00		\$ 1.84	
UNDERGROUND (CU) CA.		5C		\$ 0.00		\$ 0.15		\$ 2.63	
CO EQPT - LOW CAP TERM		257C		\$ 6.55		\$ 0.00		\$ 0.00	
CO EQPT - LOW CAP CHAN		257C		\$ 16.12		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP TERM		857C		\$ 2.18		\$ 0.00		\$ 0.00	
CO EQPT - HI CAP CHAN		857C		\$ 3.33		\$ 0.00		\$ 0.00	
CO EQPT - ANALOG SW		77C		\$ 0.00		\$ 0.00		\$ 0.00	
CO EQPT - DIGITAL SW		377C		\$ 0.00		\$ 0.00		\$ 0.00	
AERIAL CABLE (FIBER)		822C		\$ 0.04		\$ 0.00		\$ 0.00	
BURIED CABLE (FIBER)		845C		\$ 0.00		\$ 0.00		\$ 0.00	
UNDERGROUND (FO) CA.		85C		\$ 0.09		\$ 0.00		\$ 0.00	
CONNECTORS		57C		\$ 0.00		\$ 0.00		\$ 0.00	
MISC. COM EQP & PWR		57C		\$ 0.00		\$ 0.00		\$ 0.00	
POLE LINE		1C		\$ 0.01		\$ 0.01		\$ 1.16	
CONDUIT		4C		\$ 0.04		\$ 0.05		\$ 0.93	
SPAN SUMMARY				\$ 30.77		\$ 0.00		\$ 0.23	
								\$ 44.76	
								\$ 44.76	

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C:\123R24\LCATH034\RESULTS1		LOOP COST ANALYSIS TOOL				Belcore®	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 7 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		RUN DATE: 23-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21320 FEET		TIME: 09:22			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP		
	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE		
	EQPT						
	PLANT CODE						
	ITEM DESCRIPTION						
SHARED RESOURCES							
8	LAND	20C				\$0	\$0
9	BUILDING	10C				\$0	\$0
10	BLDG ENTRANCE CABLE	12C				\$0	\$0
11	INTRABLDG CABLE	52C				\$0	\$0
12	AERIAL CABLE (COPPER)	22C				\$0	\$0
13	BURIED CABLE (COPPER)	45C				\$0	\$0
14	UNDERGROUND (CU) CA.	5C				\$0	\$0
15	CO EQPT - LOW CAP TERM	257C				\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
17	CO EQPT - HI CAP TERM	857C				\$0	\$0
18	CO EQPT - HI CAP CHAN	857C				\$0	\$0
19	CO EQPT - ANALOG SW	77C				\$0	\$0
20	CO EQPT - DIGITAL SW	377C				\$0	\$0
21	AERIAL CABLE (FIBER)	822C				\$0	\$0
22	BURIED CABLE (FIBER)	845C				\$0	\$0
23	UNDERGROUND (FO) CA.	85C				\$0	\$0
24	CONNECTORS	57C				\$0	\$0
25	MISC. COM EQP & PWR	57C				\$0	\$0
26	POLE LINE	1C				\$0	\$0
27	CONDUIT	4C				\$0	\$0
DIRECT RESOURCES							
30	LAND	20C				\$0	\$0
31	BUILDING	10C				\$0	\$0
32	BLDG ENTRANCE CABLE	12C				\$0	\$0
33	INTRABLDG CABLE	52C				\$0	\$0
34	AERIAL CABLE (COPPER)	22C				\$0	\$0
35	BURIED CABLE (COPPER)	45C				\$0	\$0
36	UNDERGROUND (CU) CA.	5C				\$0	\$0
37	CO EQPT - LOW CAP TERM	257C				\$0	\$0
38	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
39	CO EQPT - HI CAP TERM	857C				\$0	\$0
40	CO EQPT - HI CAP CHAN	857C				\$0	\$0
41	CO EQPT - ANALOG SW	77C				\$0	\$0
42	CO EQPT - DIGITAL SW	377C				\$0	\$0
43	AERIAL CABLE (FIBER)	822C				\$0	\$0
44	BURIED CABLE (FIBER)	845C				\$0	\$0
45	UNDERGROUND (FO) CA.	85C				\$0	\$0
46	CONNECTORS	57C				\$0	\$0
47	MISC. COM EQP & PWR	57C				\$0	\$0
48	POLE LINE	1C				\$0	\$0
49	CONDUIT	4C				\$0	\$0
51	SPAN SUMMARY	\$0	\$0			\$0	\$0
52						\$0	\$0
53						\$0	\$0
54						\$0	\$0
55						\$0	\$0

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A B C D E F G		LOOP COST ANALYSIS TOOL						Bellcore (R)	
C:\123R24\LCATR034\RESULTS1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY						LCAT Rel: 1.0.4	
OUTPUT - WORKSHEET D								Issued: 7/31/95	
SHEET 8 of 10								STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 5 FOMUX						TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS						RUN DATE: 23-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN						TIME: 09:22	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21,320 FEET							
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						WEIGHTED	
PLANT NAME		FEEDER				DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY				EXTENSION		LOOP	
EQPT		SUB-				INTERFACE		TOTAL	
PLANT		CODE						LOOP	
ITEM DESCRIPTION								TOTAL	
7 SHARED RESOURCES								TOTAL	
8 LAND		20C						\$0	
9 BUILDING		10C						\$0	
10 BLDG ENTRANCE CABLE		12C						\$0	
11 INTRABLDG CABLE		52C						\$0	
12 AERIAL CABLE (COPPER)		22C						\$0	
13 BURIED CABLE (COPPER)		45C						\$0	
14 UNDERGROUND (CU) CA.		5C						\$0	
15 CO EQPT - LOW CAP TERM		257C						\$0	
16 CO EQPT - LOW CAP CHAN		257C						\$0	
17 CO EQPT - HI CAP TERM		857C						\$0	
18 CO EQPT - HI CAP CHAN		857C						\$0	
19 CO EQPT - ANALOG SW		77C						\$0	
20 CO EQPT - DIGITAL SW		377C						\$0	
21 AERIAL CABLE (FIBER)		822C						\$0	
22 BURIED CABLE (FIBER)		845C						\$0	
23 UNDERGROUND (FO) CA.		85C						\$0	
24 CONNECTORS		57C						\$0	
25 MISC. COM EQP & PWR		57C						\$0	
26 POLE LINE		1C						\$0	
27 CONDUIT		4C						\$0	
28									
29 DIRECT RESOURCES									
30 LAND		20C						\$0	
31 BUILDING		10C						\$0	
32 BLDG ENTRANCE CABLE		12C						\$0	
33 INTRABLDG CABLE		52C						\$0	
34 AERIAL CABLE (COPPER)		22C						\$0	
35 BURIED CABLE (COPPER)		45C						\$0	
36 UNDERGROUND (CU) CA.		5C						\$0	
37 CO EQPT - LOW CAP TERM		257C						\$0	
38 CO EQPT - LOW CAP CHAN		257C						\$0	
39 CO EQPT - HI CAP TERM		857C						\$0	
40 CO EQPT - HI CAP CHAN		857C						\$0	
41 CO EQPT - ANALOG SW		77C						\$0	
42 CO EQPT - DIGITAL SW		377C						\$0	
43 AERIAL CABLE (FIBER)		822C						\$0	
44 BURIED CABLE (FIBER)		845C						\$0	
45 UNDERGROUND (FO) CA.		85C						\$0	
46 CONNECTORS		57C						\$0	
47 MISC. COM EQP & PWR		57C						\$0	
48 POLE LINE		1C						\$0	
49 CONDUIT		4C						\$0	
50									
51 SPAN SUMMARY								\$0	
52								\$0	
53								\$0	
54								\$0	
55								\$0	

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C:\123R24\LCATR034\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore (R)	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 9 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX				STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				RUN DATE: 23-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21320 FEET				TIME: 09:22	
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	TOTAL
SEG. NAME		PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP
EQPT							
PLANT CODE							
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C				\$0	\$0
9	BUILDING	10C				\$0	\$0
10	BLDG ENTRANCE CABLE	12C				\$0	\$0
11	INTRABLDG CABLE	52C				\$0	\$0
12	AERIAL CABLE (COPPER)	22C				\$0	\$0
13	BURIED CABLE (COPPER)	45C				\$0	\$0
14	UNDERGROUND (CU) CA.	5C				\$0	\$0
15	CO EQPT - LOW CAP TERM	257C				\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
17	CO EQPT - HI CAP TERM	857C				\$0	\$0
18	CO EQPT - HI CAP CHAN	857C				\$0	\$0
19	CO EQPT - ANALOG SW	77C				\$0	\$0
20	CO EQPT - DIGITAL SW	377C				\$0	\$0
21	AERIAL CABLE (FIBER)	822C				\$0	\$0
22	BURIED CABLE (FIBER)	845C				\$0	\$0
23	UNDERGROUND (FO) CA.	85C				\$0	\$0
24	CONNECTORS	57C				\$0	\$0
25	MISC. COM EQP & PWR	57C				\$0	\$0
26	POLE LINE	1C				\$0	\$0
27	CONDUIT	4C				\$0	\$0
DIRECT RESOURCES							
30	LAND	20C				\$0	\$0
31	BUILDING	10C				\$0	\$0
32	BLDG ENTRANCE CABLE	12C				\$0	\$0
33	INTRABLDG CABLE	52C				\$0	\$0
34	AERIAL CABLE (COPPER)	22C				\$0	\$0
35	BURIED CABLE (COPPER)	45C				\$0	\$0
36	UNDERGROUND (CU) CA.	5C				\$0	\$0
37	CO EQPT - LOW CAP TERM	257C				\$0	\$0
38	CO EQPT - LOW CAP GHAN	257C				\$0	\$0
39	CO EQPT - HI CAP TERM	857C				\$0	\$0
40	CO EQPT - HI CAP CHAN	857C				\$0	\$0
41	CO EQPT - ANALOG SW	77C				\$0	\$0
42	CO EQPT - DIGITAL SW	377C				\$0	\$0
43	AERIAL CABLE (FIBER)	822C				\$0	\$0
44	BURIED CABLE (FIBER)	845C				\$0	\$0
45	UNDERGROUND (FO) CA.	85C				\$0	\$0
46	CONNECTORS	57C				\$0	\$0
47	MISC. COM EQP & PWR	57C				\$0	\$0
48	POLE LINE	1C				\$0	\$0
49	CONDUIT	4C				\$0	\$0
SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0

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C:\123R24\LCATR034\RESULTS1			LOOP COST ANALYSIS TOOL					Bellcore®		
OUTPUT - WORKSHEET D			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4		
SHEET 10 of 10			COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: MELDED		FOMUX		Issued: 7/31/95	
			CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP		SPANS		STUDY YR: 1996	
			STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				TEST CASE: 1	
			JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 21320 FEET				RUN DATE: 23-Jan-97	
									TIME: 09:22	
Technology Type Mix: 1.0000			UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						TECHNOLOGY	
PLANT NAME			FEEDER		DISTRIBUTION NETWORK		TOTAL		WEIGHTED	
SEG. NAME			PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT									TOTAL LOOP	
PLANT CODE									TOTAL LOOP	
ITEM DESCRIPTION										
SHARED RESOURCES										
LAND			20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.0723
BUILDING			10C	\$ 2.15	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.15	\$ 2.1481
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	\$ 0.19	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.19	\$ 0.1934
POLE LINE			1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT			4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES										
LAND			20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING			10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE			12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.4513
INTRABLDG CABLE			52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)			22C	\$ 0.00	\$ 0.00	\$ 0.02	\$ 4.77	\$ 0.00	\$ 4.79	\$ 4.7900
BURIED CABLE (COPPER)			45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.84	\$ 0.00	\$ 1.84	\$ 1.8400
UNDERGROUND (CU) CA.			5C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 2.63	\$ 0.00	\$ 2.78	\$ 2.7800
CO EQPT - LOW CAP TERM			257C	\$ 6.55	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6.55	\$ 6.5469
CO EQPT - LOW CAP CHAN			257C	\$ 16.12	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.12	\$ 16.1163
CO EQPT - HI CAP TERM			857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.18	\$ 2.1818
CO EQPT - HI CAP CHAN			857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.33	\$ 3.3302
CO EQPT - ANALOG SW			77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW			377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)			822C	\$ 0.04	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.04	\$ 0.0366
BURIED CABLE (FIBER)			845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.			85C	\$ 0.09	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.09	\$ 0.0897
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	\$ 1.14	\$ 0.00	\$ 1.15	\$ 1.1592
CONDUIT			4C	\$ 0.04	\$ 0.00	\$ 0.05	\$ 0.93	\$ 0.00	\$ 1.02	\$ 1.0240
SPAN SUMMARY				\$ 30.77	\$ 0.00	\$ 0.03	\$ 11.31	\$ 2.45	\$ 44.76	\$ 44.76
				</						

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Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

23-Jan-97

Issued: 8/31/95

08:58

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

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

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Printed 23-Jan-97 RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL. RATES PLAN

CA123R24\LCAT\CALC1\DIST
DIST. PLNT - WORKSHEET A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL

Bellcore®

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

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLL, CD)

SERVICE CLASS: BAND 1 - BUSINESS ISDN

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:12

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM	FROM	CABLE INVESTMENT PER PAIR FOOT	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	CABLE COMPONENTS		(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
		- TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT [B]	TABLE 4 - CABLE SUBSET BY TYPE OF PLANT [C=A*B]				PAIR FOOT	PAIR FOOT	
2119.0	AERIAL	0.590000	1250.2	0.039700	49.63		0.00	0.00	
CONSIDERS:	BURIED	0.160000	339.0	0.065700	22.27		0.00	0.00	
MELDED COPPER CABLE	UNDERGRND	0.250000	529.8	0.056900	30.14		0.00	0.00	
Check =		1.000000	2119.0						
OUTSIDE PLANT LOADINGS (NOTE 4)									
DROP WIRE ADJUSTMENT:					AIR DRYER LOADINGS:				
AERIAL CA. =		0.0000	AERIAL CA. =		0.0000				
BURIED CA. =		0.0000	BURIED CA. =		0.0000				
UNDERGRND =		0.0000	UNDERGRND =		0.0000				
OTHER INVESTMENT									
POLE LINE FACTOR (PLF) =		0.0000	inv / unit lenth:		0.0000				
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =		\$ 35.88	inv-min factr:		0.3637				
UG CONDUIT FACTOR (UCF) =		0.0000	inv-min factr:		0.5165				
CONDUIT INVESTMENT (UTIL UNDERGRND INVST x UCF) =		\$ 44.48							
FOOTNOTES									
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.									
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO									
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)									

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LOOP COST ANALYSIS TOOL												Bellcore TM	
ACCOUNT INVESTMENT WORKSHEET												LCAT Release: 1.0.4	
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL												Issue Date: 6/31/95	
FACILITY TYPE: COPPER CABLE												STUDY YR: 1996	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)												TEST CASE: 1	
SERVICE CLASS: BAND 1 - BUSINESS ISDN												RUN DATE: 23-Jan-97	
TIME: 09:12													
COMPANY: CINCINNATI BELL TEL.													
CITY / AREA: CINCINNATI													
STATE / PROV: OHIO													
PLANT	CAT.	RESOURCE	1996 UNIT	1996 UNIT	CIRCUIT	SHARED	DIRECT	ADMIN.	SHARED	DIRECT			
ACCT	FIXED	ALLOCATION	INVESTMENT	LOOP INVESTMENT	QUANTITY	RESOURCES	RESOURCES	UTIL.	RESOURCES	RESOURCES			
CODE	VARI		BY ACCOUNT	EXCL. UTILIZATION	[G]	[H=F*G]	[H'=F*G]	LINE	[K=H/J]	[K'=H'/J]			
PLANT ITEM								FILL					
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	49.63	1		\$ 50	0.3500		\$ 142			
BURIED CABLE (COPPER)	45C	V	DIRECT	22.27	1		\$ 22	0.3500		\$ 64			
UNDERGROUND (CU) CA.	5C	V	DIRECT	30.14	1		\$ 30	0.3500		\$ 66			
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	35.88	1		\$ 36	1.0000		\$ 36			
CONDUIT	4C	F	DIRECT	44.48	1		\$ 44	1.0000		\$ 44			

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FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

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

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

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

LOOP COST ANALYSIS TOOL

Bellcore (R)

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

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:12

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 - BUSINESS ISDN

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
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		\$ 142	0.4033		\$ 57.19		\$ 4.77
BURIED CABLE (COPPER)	45C	1.0000		\$ 84	0.3467		\$ 22.05		\$ 1.84
UNDERGROUND (CU) CA.	5C	1.0000		\$ 86	0.3663		\$ 31.55		\$ 2.63
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		\$ 36	0.3807		\$ 13.66		\$ 1.14
CONDUIT	4C	1.0000		\$ 44	0.2521		\$ 11.21		\$ 0.93

TOTALS

distshrnrv	distdnrv
\$ 0	\$ 372
	\$ 372
distshrnrv	

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS ISDN

Release: 1.0.4
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:12

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

POLE LINE FACTOR (PLF) = 0.2500
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 FAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4	
CITY / AREA: CINCINNATI										STUDY YR: 1996	
STATE / PROV: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 23-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 09:12	
SERVICE CLASS: BAND 1 - BUSINESS SDN											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION			
					SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F	SHARED					1.0000			
BUILDING	10C	F	SHARED					1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000	\$ 75		
INTRABLDG CABLE	52C	V	DIRECT	0.00				0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500			
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500			
UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500			
CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000			
CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000			
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COME QP & PWR	57C	V	SHARED					1.0000			
POLE LINE	1C	F	DIRECT	0.00				1.0000			
CONDUIT	4C	F	DIRECT					1.0000			

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\$ 75

\$ 75

botimiv

FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

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

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

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

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore[®]

LCAT

Release: 1.0.4

STUDY YR: 1998

TEST CASE: 1

RUN DATE: 23-Jan-97

TIME: 09:12

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS ISDN

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [L]	DIRECT RESOURCES [M'=K*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	82C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				

TOTALS

btctshrnv btctdlnv
\$ 0 \$ 75
btctinvy \$ 75

\$ 0.00 \$ 29.42 \$ 0.00 \$ 2.45
btctann btctmrc

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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.

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

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS ISDN

Belcore (P)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:13

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

POLE LINE FACTOR (PLF) = 0.0000
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = 0.0000

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PROVIDED TO PUCO

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

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CA123R24\LCATCALC.DIST
DIST_PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

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

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

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:13

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

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

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C:\123R24\LCAT\CALC\DI\ST			LOOP COST ANALYSIS TOOL					Bellore [®]	
DIST_PLNT - WORKSHEET B			PROSPECTIVE AND ANNUAL COSTS WORKSHEET					LCAT	
Sheet 3 of 3			FACILITY TYPE: COPPER CABLE					Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.			CIRCUIT SEGMENT: SERVICE ACCESS					STUDY YR: 1996	
CITY/AREA: CINCINNATI			SERVICE CLASS: BAND 1 - BUSINESS ISDN					TEST CASE: 1	
STATE/PROV: OHIO								RUN DATE: 23-Jan-97	
								TIME: 09:13	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [L] [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N] [P'=M'*N]	DIRECT RESOURCES [R=P/12] [R'=P'/12]		
LAND	20C	1.0000			0.2322				
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			0.2821				
TOTALS			bctshrinv bctdlrinv ----- \$ 0 \$ 75 \$ 78 bctinvsy		\$ 29.42 \$ 29.42 bctang	\$ 2.45 \$ 2.45 bctmrc			

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 PROVIDED TO PUCO

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

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C:\123F24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
DIST PLANT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release : 1.0.4	
Sheet : 013						Issue Date : 8/31/96	
COMPANY: CINCINNATI BELL TEL		FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC NON-COLLOC)				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				RUN DATE: 23-Jan-97	
						TIME: 09:13	
0		logic - 14a				: 996 UNIT MONTHLY RECURRING COST BY ACCOUNT	
1		BAND				0	
2		MIX				1.0000	
3		AVG.					
4		LGTH.				21320	
5		SEG. LGTH.				2119.0	
6		SHARED RESOURCES					
7		LAND				20C	
8		BUILDING				10C	
9		BLDG ENTRANCE CABLE				12C	
10		INTRABLDG CABLE				52C	
11		AERIAL CABLE (COPPER)				22C	
12		BURIED CABLE (COPPER)				45C	
13		UNDERGROUND (CU) CA.				5C	
14		CO EQPT - P GAIN TERM				257C	
15		CO EQPT - P GAIN CHAN				257C	
16		CO EQPT - FO MUX TERM				857C	
17		CO EQPT - FO MUX CHAN				857C	
18		CO EQPT - ANALOG SW				77C	
19		CO EQPT - DIGITAL SW				377C	
20		AERIAL CABLE (FIBER)				822C	
21		BURIED CABLE (FIBER)				845C	
22		UNDERGROUND (FO) CA.				85C	
23		CONNECTORS				57C	
24		MISC. COM EQP & PWR				57C	
25		POLE LINE				1C	
26		CONDUIT				4C	
27							
28		DIRECT RESOURCES					
29		LAND				20C	
30		BUILDING				10C	
31		BLDG ENTRANCE CABLE				12C	
32		INTRABLDG CABLE				52C	
33		AERIAL CABLE (COPPER)				22C	
34		BURIED CABLE (COPPER)				45C	
35		UNDERGROUND (CU) CA.				5C	
36		CO EQPT - P GAIN TERM				257C	
37		CO EQPT - P GAIN CHAN				257C	
38		CO EQPT - FO MUX TERM				857C	
39		CO EQPT - FO MUX CHAN				857C	
40		CO EQPT - ANALOG SW				77C	
41		CO EQPT - DIGITAL SW				377C	
42		AERIAL CABLE (FIBER)				822C	
43		BURIED CABLE (FIBER)				845C	
44		UNDERGROUND (FO) CA.				85C	
45		CONNECTORS				57C	
46		MISC. COM EQP & PWR				57C	
47		POLE LINE				1C	
48		CONDUIT				4C	
49							
50		SPAN SUMMARY				\$ 11.31	
51		AVG. WTD. SPAN SUMMARY				\$ 11.31	
52							
53		NOTE:				(sum(INV _{ACCT} ^{BAND} + MIX ^{BAND}))	
54							
55							

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55C:\123R24\LCATCALC.DIST
DIST PLNT - REPORT 148
Sheet 1 of 1COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOLOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT SEGMENT : SERVICE ACCESS

SERVICE CLASS: BAND 1 - BUSINESS ISDN

Bellcore®

LCAT

Release: 1.0.4

STUDY YR: 1998
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 09:13

1998 UNIT MONTHLY RECURRING COST BY ACCOUNT

ALL

PLANT ITEM

PLANT
ACCT
CODEBAND
MIX
AVG.
LGTH.

SHARED RESOURCES

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

DIRECT RESOURCES

LAND	20C
BUILDING	10C
BLDG ENTRANCE CABLE	12C
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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J:\123R24\LCAT\CALC\CUTECH

RUN - SUB PRI

LAST UPDATE

23-Jan-97

09:00

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

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY**STUDY NAME:** 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY**CURRENT TEST PLAN :** CURRENT JOB IDENT. CINCINNATI

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

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C:\123R24\LCAT\CALC\CUTECH		LOOP COST ANALYSIS TOOL						Bellcore (R)	
SUB PRI - WORKSHEET		BASIC INVESTMENT WORKSHEET						LCAT Release : 1.0.4	
Sheet 1 of 3		CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS						Issue Date : 7/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE						STUDY YR: 1995	
CITY / AREA: CINCINNATI		CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY						TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN						RUN DATE: 23-Jan-97	
								TIME: 09:15	
SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 -- RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 -- MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fcfr]	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							
23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS 24 INVESTMENT PER CIRCUIT TERMINATION 25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00 26 inv / unit lctr: inv rltm fctr: 0.000000 0.253000 27 POLE LINE FACTOR = 0.00560 28 POLE LINE INVESTMENT = \$ 0.18 29 (UTIL AERIAL INVEST x PL) 30 31 UG CONDUIT FACTOR = 0.000000 0.516500 2 CONDUIT INVESTMENT = \$ 2.48 3 (UTIL UNDGRND INVEST x UC) 34 35 36 37 38 39 40 41 42 43 44 45 46 47 FOOTNOTES 48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING. 49 NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB) 50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE. 51 NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6). 52 53 54 55									

MISC. COMMON EQPT. & POWER FACTOR = 0.112700

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

LAND FACTOR = 0.00560

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

BUILDING FACTOR = 0.13160

BLDG NVST (CO CONN + MCEP) x FACTOR = \$ 0.00

PERCENT OF CO CONN AT DIGITAL SWITCHES 100.00%

PERCENT OF CO CONN AT ANALOG SWITCHES 0.00%

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LOOP COST ANALYSIS TOOL										Bellcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1995	
CIRCUIT SEGMENT: [MELOD GAUGE/S/ SUB-PRIMARY]										TEST CASE: 1	
SERVICE CLASS: BAND 1 - BUSINESS ISDN										RUN DATE: 23-Jan-97	
										TIME: 09:16	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT.	RESOURCE ALLOCATN	1995 UNIT INVESTMENT BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1995 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	ADMIN. JTL. LINE FILL	1995 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	
			T	[F]	[G]	[H=F*G]	[H'=F'*G]	[J]	[K=H/J]	[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	2.88	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	
TOTALS										\$ 0	\$ 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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C:\123R24\LCAT\CALC\OUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

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

LOOP COST ANALYSIS TOOL

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: [MELODED GAUGE/S/ SUB-PRIMARY]

BellcoreTM

LCAT Release: 1.0.4

Issue Date: 7/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 23-Jan-97

TIME: 09:15

SERVICE CLASS: BAND 1 - BUSINESS ISDN

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PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 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		\$ 0.82		\$ 0.05
SUBTOTALS			\$ 0	\$ 8		\$ 0.00	\$ 2.74	\$ 0.00	\$ 0.23
TOTALS				\$ 8			\$ 2.74		\$ 0.23

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FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

C:\123R24\LCAT\CALC\CUTECH		LOOP COST ANALYSIS TOOL				Bellicore®	
SUB_PRI - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL				Issue Date: 7/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: SUB-PRIMARY PLANT				STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				TEST CASE: 1	
						RUN DATE: 23-Jan-97	
						TIME: 09:16	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						(SEE NOTE)	
						TOTAL	
						AVG. WEIGHTED	
300							
6: SHARED RESOURCES							
7: LAND	20C						\$ 0.00
8: BUILDING	10C						\$ 0.00
9: BLDG ENTRANCE CABLE	12C						\$ 0.00
10: INTRABLDG CABLE	52C						\$ 0.00
11: AERIAL CABLE (COPPER)	22C						\$ 0.00
12: BURIED CABLE (COPPER)	45C						\$ 0.00
13: UNDERGROUND (CU) CA.	5C						\$ 0.00
14: CO EQPT - P GAIN TERM	257C						\$ 0.00
15: CO EQPT - P GAIN CHAN	257C						\$ 0.00
16: CO EQPT - FO MUX TERM	857C						\$ 0.00
17: CO EQPT - FO MUX CHAN	857C						\$ 0.00
18: CO EQPT - ANALOG SW	77C						\$ 0.00
19: CO EQPT - DIGITAL SW	377C						\$ 0.00
20: AERIAL CABLE (FIBER)	822C						\$ 0.00
21: BURIED CABLE (FIBER)	845C						\$ 0.00
22: UNDERGROUND (FO) CA.	85C						\$ 0.00
23: CONNECTORS	57C						\$ 0.00
24: MISC. COM EQP & PWR	57C						\$ 0.00
25: POLE LINE	1C						\$ 0.00
26: CONDUIT	4C						\$ 0.00
8: DIRECT RESOURCES							
9: LAND	20C						\$ 0.00
30: BUILDING	10C						\$ 0.00
31: BLDG ENTRANCE CABLE	12C						\$ 0.00
32: INTRABLDG CABLE	52C						\$ 0.00
33: AERIAL CABLE (COPPER)	22C		\$ 0.02				\$ 0.02
34: BURIED CABLE (COPPER)	45C						\$ 0.00
35: UNDERGROUND (CU) CA.	5C		\$ 0.15				\$ 0.15
36: CO EQPT - P GAIN TERM	257C						\$ 0.00
37: CO EQPT - P GAIN CHAN	257C						\$ 0.00
38: CO EQPT - FO MUX TERM	857C						\$ 0.00
39: CO EQPT - FO MUX CHAN	857C						\$ 0.00
40: CO EQPT - ANALOG SW	77C						\$ 0.00
41: CO EQPT - DIGITAL SW	377C						\$ 0.00
42: AERIAL CABLE (FIBER)	822C						\$ 0.00
43: BURIED CABLE (FIBER)	845C						\$ 0.00
44: UNDERGROUND (FO) CA.	85C						\$ 0.00
45: CONNECTORS	57C						\$ 0.00
46: MISC. COM EQP & PWR	57C						\$ 0.00
47: POLE LINE	1C	0.0	\$ 0.01				\$ 0.01
48: CONDUIT	4C	0.0	\$ 0.05				\$ 0.05
50: SPAN SUMMARY		\$ 0.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.23
52: 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\LCAT\CALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE

23-Jan-97

09:03

LOOP COST ANALYSIS TOOL

BelcoreTM

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 18001 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	1

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LOOP COST ANALYSIS TOOL										Bellcore [®]	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 5/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CIR										TEST CASE: 1	
CIRCUIT DESIGN: T/C										DATE: 23-Jan-97	
SERVICE CLASS: BAND 1 - BUSINESS ISDN										TIME: 09:18 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
21 320 cur lgth											
300 outside lgth											
I = 0.125 pcfactor											
SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF PLANT	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT	MELDED INVEST. PER UNIT FOOT	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT [U*DTCT]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	WEIGHTED DROP WIRE INVESTMENT PER PAIR		
[A]		[B]	[C=A*B*f]	[D]	[E=C*D]	[U*DTCT]	[E*Tctr]	[E*Tctr]	[U*DTCT]		
18901	AERIAL	0.120000	283.32	0.024200	\$ 6.86		\$ 0.00				
CO TO RT LINK ON	BURIED	0.000000	0.00	0.033200	\$ 0.00		\$ 0.00				
24.00 GA. FACILITIES	UNDERGRND	0.880000	2079.11	0.021800	\$ 45.32		\$ 0.00				
		1.000000									
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvst											
OTHER INVESTMENT											
POLE LINE FACTOR (PL) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) =											
UGD CONDUIT FACTOR (UC) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVST x UC) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =											
MCE&P INVEST. (CU REMMUX x MCEP) =											
MCE&P INVEST. (CDLCMUX x MCEP) =											
MCE&P INVEST. (CO CONN x MCEP) =											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf_rem) =											
LAND FACTOR FOR DLC (LANDf_c.o.) =											
LAND INVEST. (CU COMUX + MCEP) x LANDf =											
LAND INVEST. ((CO CONN + MCEP) x LANDf) =											
BUILDING FACTOR FOR DLC (BLDGf_rem) =											
BUILDING FACTOR FOR DLC (BLDGf_c.o.) =											
BLDG INVEST. (CDLCMUX + MCEP) x BLDGf =											
BLDG INVEST. ((CO CONN + MCEP) x BLDGf) =											
LOOP TOPOLOGY											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF RING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
STAR											
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0.0000											
1.0000											
0.0000											
1.0000											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET 8; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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PLANT ITEM		PLANT ACCT CODE	FIXED VARI SUNK	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	3.06	1	\$ 3		1.0000	\$ 3		
BUILDING	10C	F	SHARED	71.96	1	\$ 72		1.0000	\$ 72		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	6.86	1		\$ 7	0.6000		\$ 11	
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT	45.32	1		\$ 45	0.5000		\$ 76	
CO EQPT - P GAIN TERM	257C	F	DIRECT	196.96	1		\$ 197	0.7000		\$ 281	
CO EQPT - P GAIN CHAN	257C	V	DIRECT	348.82	1		\$ 349	0.7000		\$ 498	
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	2.89	1		\$ 3	1.0000			
CONDUIT	4C	F	DIRECT	39.02	1		\$ 39	1.0000			
TOTALS											

---\$---
 ---\$75---
 ---\$909---
 ---\$984---
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FOOTNOTES
 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
 NOTE 2: CO EQPT - CKT PG TERM = PG EQ INV TERM + MC&P INV
 CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV
 CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

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C:\123R24\LCATCALC\CUPRGN		LOOP COST ANALYSIS TOOL										Bellcore	
CDLG PLANT - WORKSHEET 1		PROSPECTIVE AND ANNUAL COSTS WORKSHEET										LCAT Release: 1.0.4	
Sheet 3 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
		FACILITY TYPE: COPPER DIG LOOP CXR										TEST CASE: 1	
		CIRCUIT DESIGN: 1 C										DATE: 23-Jan-97	
		SERVICE CLASS: HAND 1 - BUSINESS ISDN										TIME: 09:18 AM	
COMPANY: CINCINNATI BELL TEL													
CITY: AREA OHIO													
STATE: PROV CINCINNATI													
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT					
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]				
LAND	20C	1.0000	\$ 3		0.2322	\$ 0.71		\$ 0.06					
BUILDING	10C	1.0000	\$ 72		0.2937	\$ 21.13		\$ 1.76					
BLDG ENTRANCE CABLE	12C	1.0000			0.3922								
INTRABLDG CABLE	52C	1.0000			0.3922								
AERIAL CABLE (COPPER)	22C	1.0000		\$ 11	0.4033		\$ 4.61	\$ 0.38					
BURIED CABLE (COPPER)	45C	1.0000			0.3467								
UNDERGROUND (CU) CA.	5C	1.0000		\$ 75	0.3863		\$ 27.67	\$ 2.31					
CO EQPT - P GAIN TERM	257C	1.0000		\$ 281	0.3881		\$ 109.21	\$ 9.10					
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 498	0.3881		\$ 193.40	\$ 16.12					
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			0.2889								
CONNECTORS	57C	1.0000			0.3881								
MISC. COM EQP & PWR	57C	1.0000			0.3881								
POLE LINE	1C	1.0000		\$ 3	0.3807								
CONDUIT	4C	1.0000		\$ 39	0.2521								
TOTALS			\$ 75	\$ 909		\$ 21.84	\$ 345.83	\$ 28.82					
				\$ 984			\$ 307.67	\$ 30.64					
				FEED1SY			FEED1MRC						

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

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LOOP COST ANALYSIS TOOL				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		Bellcore [®]	
CDLC PLANT - REPORT 14.1				LCA Release: 1.0.4		Issue Date: 8/31/95	
Sheet 1 of 3				STUDY YR: 1996		TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL.				FACILITY SEGMENT: PRIMARY FEEDER SEGMENT		DATE: 23-Jan-97	
CITY / AREA: CINCINNATI				CIRCUIT DESIGN: 11 COPPER DIG LOOP CXR		TIME: 09:18 AM	
STATE / PROV: OHIO				SERVICE CLASS: BAND 1 - BUSINESS: SDN			
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						(SEE NOTE)	
logc-14a				0		TOTAL	
BAND MEX				1.0000		AVG. WEIGHTED	
PLANT ACCT						INVESTMENT	
CODE LGTH				21320			
SEG LGTH				18901			
18901							
SHARED RESOURCES							
LAND	20C		\$ 0.06				\$ 0.06
BUILDING	10C		\$ 1.76				\$ 1.76
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		\$ 0.38				\$ 0.38
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C		\$ 2.31				\$ 2.31
CO EQPT - P GAIN TERM	257C		\$ 9.10				\$ 9.10
CO EQPT - P GAIN CHAN	257C		\$ 16.12				\$ 16.12
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		\$ 0.09				\$ 0.09
CONDUIT	4C		\$ 0.82				\$ 0.82
SPAN SUMMARY				30.64	0.00	0.00	0.00
AVG. WTD. SPAN SUMMARY				30.64	0.00	0.00	0.00
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

23-Jan-97

Issued: 7/31/95

09:05

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY 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	AMT COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1998	
CIRCUIT DESIGN: 3 FOMUX TO HLB/REM.										TEST CASE: 1	
SERVICE CLASS: BAND 1 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 23-Jan-97	
										TIME: 09:20	
C:\123R24\LCAT\CALC\FOPRGN.WK1											
FO_MUX - WORKSHEET 3											
Sheet 1 of 3											
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: CINCINNATI											
STATE / PROV: OHIO											
from stdr_tbi: 300 cur_stdrlgth 1979.04 wtdeqvmn											
from bw_mix: 10200.5 cur_pnlgth											
EFFECTIVE LENGTH MLD CABLE											
SUBSET DESIGN INVEST. PER											
BY TYPE PAIR FOOT											
CABLE COMPONENTS (NOTE 5)											
WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D]											
WEIGHTED TERMINAL INVESTMENT [UI*OTC]											
AIR DRYER INVESTMENT PER PAIR [E*Fctr]											
DROP WIRE ADJUSTMENT PER PAIR [E*Fctr]											
WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*OTC]											
foSpri_seglgth [A] 18901 AERIAL 0.180000 1.72 0.282300 0.49 0.00											
CD TO HUB LINK ON BURIED 0.000000 0.00 0.269400 0.00 0.00											
FIBER OPTIC FACILITIES UNDERGRND 0.820000 7.83 0.168800 1.32 0.00											
1.000000											
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI NA 0.0000											
ADJUST. / LOAD FACTORS TO BURIED PFI NA 0.0000											
ADJUST. / LOAD FACTORS TO UGD PFI NA 0.0000											
DLC EQUIPMENT INVEST. (NOTE 2)											
INT DLC EQUIP INVEST. (CU COMUX) = intdlcco \$ 0.00 \$ 0.00											
INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 141.70 \$ 348.82											
UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco \$ 39.17 \$ 361.90											
UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt \$ 141.70 \$ 348.82											
FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco \$ 3.88 \$ 48.18											
FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort \$ 2.01 \$ 53.79											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) = plf 0.0000 0.1905											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.29											
UNDERGROUND CONDUIT FACTOR (PLF) = fuct 0.0000 0.5232											
CONDUIT INVESTMENT (UTIL UNDERGRND INVEST x UCF) = \$ 2.09											
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 CENT. OFC. 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 WORKSHEET 5; FOR 4 WIRE SERVICE, TABLE 4 IS MULT BY 2.											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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LOOP COST ANALYSIS TOOL										Belcore [®]		
ACCOUNT INVESTMENT WORKSHEET										LCAT Rev: 1.0.4		
FOR: PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95		
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996		
CIRCUIT DESIGN: 3' FOMUX TO HUB / REM.										TEST CASE: 1		
SERVICE CLASS: BAND 1 - BUSINSERVICE LEVEL: NAR BAND										LAST RUN: 23-Jan-97		
										TIME: 09:20		
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO												
1996 UNIT INVESTMENTS BY ACCOUNT 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION 1996 UNIT LOOP INVESTMENT INCL UTILIZATION												
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	SHARED RESOURCES	DIRECT RESOURCES		
		cmstart		[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]		
LAND	20C	F	SHARED	3.73	1	\$ 4		1.0000	\$ 4			
BUILDING	10C	F	SHARED	87.77	1	\$ 88		1.0000	\$ 88			
BLDG ENTRANCE CABLE	12C	---	---					1.0000				
INTRABLDG CABLE	62C	---	---					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	141.70	1		\$ 142	0.7000		\$ 202		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	348.82	1		\$ 349	0.7000		\$ 498		
CO EQPT - HI CAP TERM	857C	F	DIRECT	87.46	1		\$ 87	1.0000		\$ 87		
CO EQPT - HI CAP CHAN	857C	F	DIRECT	102.97	1		\$ 103	1.0000		\$ 103		
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	0.49	1		\$ 0	0.3300		\$ 1		
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300				
UNDERGROUND (FO) CA.	85C	F	DIRECT	1.32	1		\$ 1	0.3300		\$ 4		
CONNECTORS	57C	V	DIRECT	0.00				1.0000				
MISC. COM EQP & PWR	57C	V	SHARED	5.98	1	\$ 6		1.0000	\$ 6			
POLE LINE	1C	F	DIRECT	0.29	1		\$ 0	1.0000		\$ 0		
CONDUIT	4C	F	DIRECT	2.09	1		\$ 2	1.0000		\$ 2		
TOTALS											\$ 879	
											\$ 977	
											feed3ly	
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&P INV. NOTE 3: ESS CO EQPT = C.O. CONN + MCE&P INV NOTE 3: CABLE INVESTMENT IS THE SUM OF THE CABLE INV [H] + DRYER INV [J] + DROP WIRE ADJUST [K]												

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3) FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 1 - BU; SERVICE LEVEL: NARBAND										LAST RUN: 23-Jan-97	
										TIME: 09:20	
C:\123R24\LCATCALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 3 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
				SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset		SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset	
[PREVIOUS SHEET SUMMARY]			[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]	
LAND	20C	1.0000		\$ 4		0.2322	\$ 0.87		\$ 0.07		
BUILDING	10C	1.0000		\$ 88		0.2937	\$ 25.78		\$ 2.15		
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			\$ 202	0.3881		\$ 78.56		\$ 6.55	
CO EQPT - LOW CAP CHAN	257C	1.0000			\$ 498	0.3881		\$ 193.40		\$ 16.12	
CO EQPT - HI CAP TERM	857C	1.0000			\$ 87	0.3881		\$ 26.18		\$ 2.18	
CO EQPT - HI CAP CHAN	857C	1.0000			\$ 103	0.3881		\$ 39.96		\$ 3.33	
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		\$ 0.44		\$ 0.04	
BURIED CABLE (FIBER)	845C	1.0000				0.2724					
UNDERGROUND (FO) CA.	85C	1.0000			\$ 4	0.2689		\$ 1.08		\$ 0.09	
CONNECTORS	57C	1.0000				0.3881					
MISC. COM EQP & PWR	57C	1.0000		\$ 6		0.3881	\$ 2.32		\$ 0.19		
POLE LINE	1C	1.0000			\$ 0	0.3807		\$ 0.11		\$ 0.01	
CONDUIT	4C	1.0000			\$ 2	0.2521		\$ 0.53		\$ 0.04	
TOTALS				\$ 97	\$ 879		\$ 28.97	\$ 49.25	\$ 2.41	\$ 28.36	
				\$ 977			\$ 369.09		\$ 30.77		
				feed3sy			feed3mnn		feed3mra		

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

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C:\123R24\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 - BUSIN SERVICE LEVEL: NARBAND				LAST RUN: 23-Jan-97	
						TIME: 09:20	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT						(SEE NOTE)	
BAND 0						TOTAL	
PLANT MX 1.0000						AVG WEIGHTED	
ACCT AVG. 21320						INVESTMENT	
CODE LGTH 18901						18901	
SEGLGTH 18901							
SHARED RESOURCES							
1	LAND 20C		\$ 0.07				\$ 0.07
2	BUILDING 10C		\$ 2.15				\$ 2.15
3	BLDG ENTRANCE CABLE 12C						\$ 0.00
4	INTRABLDG CABLE 52C						\$ 0.00
5	AERIAL CABLE (COPPER) 22C						\$ 0.00
6	BURIED CABLE (COPPER) 45C						\$ 0.00
7	UNDERGROUND (CU) CA. 5C						\$ 0.00
8	CO EQPT - LOW CAP TERM 257C						\$ 0.00
9	CO EQPT - LOW CAP CHAN 257C						\$ 0.00
10	CO EQPT - HI CAP TERM 857C						\$ 0.00
11	CO EQPT - HI CAP CHAN 857C						\$ 0.00
12	CO EQPT - ANALOG SW 77C						\$ 0.00
13	CO EQPT - DIGITAL SW 377C						\$ 0.00
14	AERIAL CABLE (FIBER) 822C						\$ 0.00
15	BURIED CABLE (FIBER) 845C						\$ 0.00
16	UNDERGROUND (FO) CA. 85C						\$ 0.00
17	CONNECTORS 57C						\$ 0.00
18	MISC. COM EQP & PWR 57C		\$ 0.19				\$ 0.19
19	POLE LINE 1C						\$ 0.00
20	CONDUIT 4C						\$ 0.00
DIRECT RESOURCES							
21	LAND 20C						\$ 0.00
22	BUILDING 10C						\$ 0.00
23	BLDG ENTRANCE CABLE 12C						\$ 0.00
24	INTRABLDG CABLE 52C						\$ 0.00
25	AERIAL CABLE (COPPER) 22C						\$ 0.00
26	BURIED CABLE (COPPER) 45C						\$ 0.00
27	UNDERGROUND (CU) CA. 5C						\$ 0.00
28	CO EQPT - LOW CAP TERM 257C		\$ 6.55				\$ 6.55
29	CO EQPT - LOW CAP CHAN 257C		\$ 16.12				\$ 16.12
30	CO EQPT - HI CAP TERM 857C		\$ 2.18				\$ 2.18
31	CO EQPT - HI CAP CHAN 857C		\$ 3.33				\$ 3.33
32	CO EQPT - ANALOG SW 77C						\$ 0.00
33	CO EQPT - DIGITAL SW 377C						\$ 0.00
34	AERIAL CABLE (FIBER) 822C		\$ 0.04				\$ 0.04
35	BURIED CABLE (FIBER) 845C						\$ 0.00
36	UNDERGROUND (FO) CA. 85C		\$ 0.09				\$ 0.09
37	CONNECTORS 57C						\$ 0.00
38	MISC. COM EQP & PWR 57C						\$ 0.00
39	POLE LINE 1C		\$ 0.01				\$ 0.01
40	CONDUIT 4C		\$ 0.04				\$ 0.04
41	SPAN SUMMARY	30.77	0.00	0.00	0.00	0.00	\$ 30.77
42	AVG. WTD. SPAN SUMMARY	30.77	0.00	0.00	0.00	0.00	
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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LOOP COST ANALYSIS TOOL

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

SWITCHED SERVICES

LCAT Rev: 1.0.4

Issued: 07/31/95

STUDY YR: 1995

TEST CASE: 1

LAST UPDATE: 28-Oct-95

TIME: 15:17

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS								
		NARROWBAND		WIDEBAND		BROADBAND				
		PLANT CODE	CATEGORY SENS. INDEX	RESOURCE ASSIGNMENT	PLANT CODE	CATEGORY SENS. INDEX	RESOURCE ASSIGNMENT	PLANT CODE	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) 0	ACU	22C	V	DIRECT	V	DIRECT	V	DIRECT		
BURIED CABLE (COPPER) 0	BCU	45C	V	DIRECT	V	DIRECT	V	DIRECT		
UNDERGROUND (CU) CA. 0	UCU	5C	V	DIRECT	V	DIRECT	V	DIRECT		
CO EQPT - LOW CAP TERM	DLCT	257C	F	DIRECT	V	DIRECT	V	DIRECT		
CO EQPT - LOW CAP CHAN	DLCC	257C	V	DIRECT	V	DIRECT	V	DIRECT		
CO EQPT - HI CAP TERM	MUXT	857C	F	DIRECT	F	DIRECT	F	DIRECT		
CO EQPT - HI CAP CHAN	MUXC	857C	F	DIRECT	F	DIRECT	V	DIRECT		
CO EQPT - ANALOG SW	ACOE	77C	V	DIRECT	V	DIRECT	V	DIRECT		
CO EQPT - DIGITAL SW	DCOE	377C	V	DIRECT	V	DIRECT	V	DIRECT		
AERIAL CABLE (FIBER)	AFO	822C	F	DIRECT	F	DIRECT	F	DIRECT		
BURIED CABLE (FIBER)	BFO	845C	F	DIRECT	F	DIRECT	F	DIRECT		
UNDERGROUND (FO) CA.	UFO	85C	F	DIRECT	F	DIRECT	F	DIRECT		
CONNECTORS	CONN	57C	V	DIRECT	V	DIRECT	V	DIRECT		
MISC. COM EQP & PWR	MCEP	57C	V	SHARED	V	SHARED	V	SHARED		
POLE LINE	POLE	1C	F	DIRECT	F	DIRECT	F	DIRECT		
CONDUIT	COND	4C	F	DIRECT	F	DIRECT	F	DIRECT		

FOOTNOTES

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

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HELP SCREEN**Belcore**^(R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/85

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

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

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LOOP COST ANALYSIS TOOL

Bellcore (R)

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

SWITCHED SERVICES

LCAT Rel : 1.0.4
Issued : 07/31/95
STUDY YR: 1995
TEST CASE : 1
LAST UPDATE : 28-Oct-95
TIME : 15:17

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

FOOTNOTES

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

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C:\123R24\LCATR034.COSTMETH
TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN**Bellcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

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

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

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C:\123R24\LCATR034\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore TM	
INPUT ~ STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 15-Jan-97	
LCAT Ver.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				28-Oct-96 C3:16 PM	
STUDY NAME		1996 BAND 1 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 1 - BUSINESS ISDN		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL.		INVESTMENT YEAR	
				1996	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO		1	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
Type Percent Mix:					
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			

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C:\123R24\LCATR034\CRITERIA
INPUT - STUDY SETUP
Sheet 1 of 2

HELP SCREENBellcoreTM

LCAT Rel. 1.0.4
ISSUED: 3/31/95

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

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

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

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

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

CELL DENSITY Select by entering the percent of cell density mix, based upon the scope of the study location 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 MANUALS FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****
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C:\123R24\LCATR034\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (A)	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		LCAT Ref. 1.0.4	
SHEET 2 / 2		STUDY QUESTIONS		ISSUED: 3/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YEAR: 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		LAST UPDATE: 25-Oct-95	
		SERVICE CLASS: BAND 1 - BUSINESS ISDN		TIME: 03:16 PM	
SELECTED QUESTIONS					
CONCERNING - SERVICE SPEC.		VALID RESPONSE			
1. Is this Study for a NEW Installation or an ADDITION ?		SET			
2. Is this Study for a SWITCHED or PRIVATE LINE Service ?		N or A		NEW	
3. Is this Study for Narrow, Wide, or Broadband Services		S or P		SWITCHED	
4. Is this Study for 2 Wire or 4 Wire Transmission ?		N, W or B		NARBAND	
		2 or 4		2	
OFFICE CHAR.		0 → 100		100	
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		100	
7. What Percent of Loop Carrier Cross-connects are Electronic DCS's?		0 → 100			
8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?		e.g., 12000		18000 Feet	
RESULTS SPEC.		For D		FLAT RATE	
9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ?		1,2,3,4			
9a. If Distance Sensitive, what band increment do you want ?		0 → 5			
10. How many Cost Bands in this study ?		I, C or		COST	
11. Should this Study result in Investment, Cost, or All values ?		TOT INCR			
12. Is this study for Total Incremental or Marginal Costs ?		RATES PLAN			
13. How many circuits (loops) in this Study ?					
14. The study classification is(e.g., RATES PLAN, TEST DATA, NEW SERVICE)					
Required for the "Footer" of each Report page.					

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HELP SCREENBellcore[®]

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied.
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,
Using **6.** for Switched Services or Using **7.** for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1**, **2**, **3**, or **4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All Lines.
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Wholesale 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\LCATR034\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN Sheet 1 / 1		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR		LCAT Rel :1.0.4 Issued :07/31/95
COMPANY :CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR : 1996
CITY / AREA :CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE : 1
STATE / PROV :OHIO		SERVICE CLASS:BAND 1 - BUSINESS ISDN		LAST UPDATE : 28-Oct-96 TIME : 15:19

CIRCUIT DESIGN

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

CIRCUIT LAYOUT REQUIREMENTS - FOR FIBER HUBS & FEEDER EXTENSIONS (FIBER HUB TO REMOTE TERMINAL LINK) FACILITY INTERFACE SITES : Proportion of Fiber Circuits WITHOUT Fiber Hubs 0.0000 FACILITY TECHNOLOGIES: Of the Hubbed Circuits - Proportion of links on Fiber Tech. 0.0000 Proportion of links on CDLC / MAR 0.0000	CIRCUIT DESIGN REQUIREMENTS - SELECTION & DISTRIBUTION: <u>Note</u> FOR FIBER DLC DESIGNS: <table style="width:100%; border-collapse: collapse;"> <tr><td style="width:80%;">Weighting of Design #1</td><td style="border: 1px solid black; text-align: right;">0.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: right;">0.0000</td></tr> <tr><td>Weighting of Design #3</td><td style="border: 1px solid black; text-align: right;">1.0000</td></tr> <tr><td>Weighting of Design #4</td><td style="border: 1px solid black; text-align: right;">NA 0.0000</td></tr> <tr><td>Weighting of Design #5</td><td style="border: 1px solid black; text-align: right;">NA 0.0000</td></tr> <tr><td>Weighting of Design #6</td><td style="border: 1px solid black; text-align: right;">NA 0.0000</td></tr> <tr><td></td><td style="border: 1px solid black; text-align: right;">1.0000 ChkSum</td></tr> </table> FOR SERVICE ACCESS NETWORK (REMOTE TERMINAL TO CUSTOMER LINK) FACILITY INTERFACE SITES : Proportion of Remote terminals colocated at Customer Premises 0.0000	Weighting of Design #1	0.0000	Weighting of Design #2	0.0000	Weighting of Design #3	1.0000	Weighting of Design #4	NA 0.0000	Weighting of Design #5	NA 0.0000	Weighting of Design #6	NA 0.0000		1.0000 ChkSum
Weighting of Design #1	0.0000														
Weighting of Design #2	0.0000														
Weighting of Design #3	1.0000														
Weighting of Design #4	NA 0.0000														
Weighting of Design #5	NA 0.0000														
Weighting of Design #6	NA 0.0000														
	1.0000 ChkSum														

FOR COPPER DLC DESIGNS: <table style="width:100%; border-collapse: collapse;"> <tr><td style="width:80%;">Weighting of Design #1</td><td style="border: 1px solid black; text-align: right;">1.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: right;">NA 0.0000</td></tr> <tr><td></td><td style="border: 1px solid black; text-align: right;">1.0000 ChkSum</td></tr> </table>	Weighting of Design #1	1.0000	Weighting of Design #2	NA 0.0000		1.0000 ChkSum	CONFIDENTIAL NOT FOR RELEASE TO THE PUBLIC NA DENOTES THAT THE CIRCUIT DESIGN PROBABLY DOES NOT APPLY TO THIS SET OF STUDY PARAMETERS.
Weighting of Design #1	1.0000						
Weighting of Design #2	NA 0.0000						
	1.0000 ChkSum						

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INPUT - LOOP_DESIGN

LCAT Rel :1.0.4

Sheet 1 of 1

Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

WARNING

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

**SERVICE
SPECIFIC**

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

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CA1123R24LCATR034FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1/4		LOOP FACILITY INPUT FIBER CABLE DATA FOR		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY/AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		LAST UPDATE: 26-Oct-96 TIME: 15:21	
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 per fiber pair Foot per fiber pair Foot	
		BURIED	\$ 0.2594		
		UNDGRD	\$ 0.1686		
(to Fiber Hub)					
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.2823	\$ 0.0000	per fiber pair Foot per fiber pair Foot per fiber pair Foot
		BURIED	\$ 0.2594	\$ 0.0000	
		UNDGRD	\$ 0.1686	\$ 0.0000	
(Fiber Hub to Remote Terminal) (Remote Terminal to Service Point)					

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