

# Confidential Release

Case Number: 96-899-TP-ALT

Date of Confidential Document:

February 23, 1998

Today's Date: MAY 10 2011

Page Count 200

Part 12

MCI Exhibits

1-48

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Technician SM Date Processed MAY 10 2011

|                              |  |                                       |  |  |  |  |                      |  |
|------------------------------|--|---------------------------------------|--|--|--|--|----------------------|--|
| C:\123R24\LCATR031\RESULTS1  |  | LOOP COST ANALYSIS TOOL               |  |  |  |  | Belcore®             |  |
| 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 3 - BUSINESS PBX  |  |  |  |  | RUN DATE : 26-Jan-97 |  |
| JOB IDENT : CINCINNATI       |  | TOTAL LOOP LENGTH: 5608 FEET          |  |  |  |  | TIME : 09:12         |  |

|                                                   |      |                                                                     |           |                      |           |         |           |          |
|---------------------------------------------------|------|---------------------------------------------------------------------|-----------|----------------------|-----------|---------|-----------|----------|
| Loop Span Set Weighting: <input type="checkbox"/> |      | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |                      |           |         |           | WEIGHTED |
| PLANT NAME                                        |      | FEEDER                                                              |           | DISTRIBUTION NETWORK |           | TOTAL   |           |          |
| SEG. NAME                                         |      | PRIMARY                                                             | EXTENSION | SUB-                 | INTERFACE |         | LOOP      |          |
| EQPT                                              |      |                                                                     |           |                      |           |         |           |          |
| CODE                                              |      |                                                                     |           |                      |           |         |           |          |
| ITEM DESCRIPTION                                  |      | SEG. LGTH.                                                          |           |                      |           |         |           |          |
| SHARED RESOURCES                                  |      |                                                                     |           |                      |           |         |           |          |
| LAND                                              | 20C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.01              | \$ 0.00   | \$ 0.00 | \$ 0.0100 |          |
| BUILDING                                          | 10C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.28              | \$ 0.00   | \$ 0.00 | \$ 0.2800 |          |
| BLDG ENTRANCE CABLE                               | 12C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| INTRABLDG CABLE                                   | 52C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| AERIAL CABLE (COPPER)                             | 22C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| BURIED CABLE (COPPER)                             | 45C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| UNDERGROUND (CU) CA.                              | 5C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - LOW CAP TERM                            | 257C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - LOW CAP CHAN                            | 257C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - HI CAP TERM                             | 857C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - HI CAP CHAN                             | 857C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - ANALOG SW                               | 77C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - DIGITAL SW                              | 377C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| AERIAL CABLE (FIBER)                              | 822C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| BURIED CABLE (FIBER)                              | 845C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| UNDERGROUND (FO) CA.                              | 85C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CONNECTORS                                        | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| MISC. COM EQP & PWR                               | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.29              | \$ 0.00   | \$ 0.00 | \$ 0.2900 |          |
| POLE LINE                                         | 1C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CONDUIT                                           | 4C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| DIRECT RESOURCES                                  |      |                                                                     |           |                      |           |         |           |          |
| LAND                                              | 20C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| BUILDING                                          | 10C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| BLDG ENTRANCE CABLE                               | 12C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 2.45 | \$ 2.4513 |          |
| INTRABLDG CABLE                                   | 52C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| AERIAL CABLE (COPPER)                             | 22C  | \$ 0.00                                                             | \$ 0.00   | \$ 2.31              | \$ 2.55   | \$ 0.00 | \$ 4.8600 |          |
| BURIED CABLE (COPPER)                             | 45C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.16              | \$ 2.61   | \$ 0.00 | \$ 2.7700 |          |
| UNDERGROUND (CU) CA.                              | 5C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.41              | \$ 0.00   | \$ 0.00 | \$ 0.4100 |          |
| CO EQPT - LOW CAP TERM                            | 257C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - LOW CAP CHAN                            | 257C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - HI CAP TERM                             | 857C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - HI CAP CHAN                             | 857C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - ANALOG SW                               | 77C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CO EQPT - DIGITAL SW                              | 377C | \$ 0.00                                                             | \$ 0.00   | \$ 2.28              | \$ 0.00   | \$ 0.00 | \$ 2.2800 |          |
| AERIAL CABLE (FIBER)                              | 822C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| BURIED CABLE (FIBER)                              | 845C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| UNDERGROUND (FO) CA.                              | 85C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| CONNECTORS                                        | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| MISC. COM EQP & PWR                               | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |          |
| POLE LINE                                         | 1C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 1.1600 |          |
| CONDUIT                                           | 4C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.15              | \$ 0.00   | \$ 0.00 | \$ 0.1500 |          |
| SPAN SUMMARY                                      |      | \$ 0.00                                                             | \$ 0.00   | \$ 5.77              | \$ 2.45   |         | \$ 14.66  |          |
|                                                   |      |                                                                     |           |                      |           |         | \$ 14.66  |          |

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C:\123R24\LCATR031\RESULTS1  
OUTPUT - COST\_REPORTS

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

### LOOP COST ANALYSIS TOOL

#### COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 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           | UN INCR   | INV LEVEL  | ANNCOST |
|                    |           | TIME       |         |

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OUTPUT - WORKSHEET D  
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Belcore**®LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1998  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:12COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - BUSINESS PBX  
TOTAL LOOP LENGTH: 5608 FEET

| Circuit Design Mix : 1.0000             |       | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |                     |         |                                   |         | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|-----------------------------------------|-------|------------------------------------------------------------|---------------------|---------|-----------------------------------|---------|---------------|---------------------------|
| PLANT NAME<br>SEG. NAME<br>EQPT<br>CODE | PLANT | PRIMARY                                                    | FEEDER<br>EXTENSION | SUB--   | DISTRIBUTION NETWORK<br>INTERFACE |         |               |                           |
| ITEM DESCRIPTION                        |       |                                                            |                     |         |                                   |         |               |                           |
| <b>SHARED RESOURCES</b>                 |       |                                                            |                     |         |                                   |         |               |                           |
| LAND                                    | 20C   | \$ 0.00                                                    |                     | \$ 0.01 | \$ 0.00                           |         | \$ 0.01       | \$ 0.01                   |
| BUILDING                                | 10C   | \$ 0.00                                                    |                     | \$ 0.28 | \$ 0.00                           |         | \$ 0.28       | \$ 0.28                   |
| 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                                                    |                     | \$ 0.29 | \$ 0.00                           |         | \$ 0.29       | \$ 0.29                   |
| 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                   |
| <b>DIRECT RESOURCES</b>                 |       |                                                            |                     |         |                                   |         |               |                           |
| LAND                                    | 20C   | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           |         | \$ 0.00       | \$ 0.00                   |
| BUILDING                                | 10C   | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           |         | \$ 0.00       | \$ 0.00                   |
| BLDG ENTRANCE CABLE                     | 12C   | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 2.45 | \$ 2.45       | \$ 2.45                   |
| INTRABLDG CABLE                         | 52C   | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           |         | \$ 0.00       | \$ 0.00                   |
| AERIAL CABLE (COPPER)                   | 22C   | \$ 0.00                                                    |                     | \$ 2.31 | \$ 2.55                           |         | \$ 4.86       | \$ 4.86                   |
| BURIED CABLE (COPPER)                   | 45C   | \$ 0.00                                                    |                     | \$ 0.16 | \$ 2.61                           |         | \$ 2.77       | \$ 2.77                   |
| UNDERGROUND (CU) CA.                    | 5C    | \$ 0.00                                                    |                     | \$ 0.41 | \$ 0.00                           |         | \$ 0.41       | \$ 0.41                   |
| 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                                                    |                     | \$ 0.55 | \$ 0.61                           |         | \$ 1.16       | \$ 1.16                   |
| CONDUIT                                 | 4C    | \$ 0.00                                                    |                     | \$ 0.15 | \$ 0.00                           |         | \$ 0.15       | \$ 0.15                   |
| SPAN SUMMARY                            |       | \$ 0.00                                                    | \$ 0.00             | \$ 6.44 | \$ 5.74                           | \$ 2.45 | \$ 14.66      | \$ 14.66                  |
| CIRCUIT DESIGN SUMMARY                  |       |                                                            |                     |         |                                   |         | \$ 14.66      |                           |

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| C:\123R24\LCATR031\RESULTS1                                                            |         | LOOP COST ANALYSIS TOOL                  |      |                 |                     | Belcore <sup>®</sup> |  |
|----------------------------------------------------------------------------------------|---------|------------------------------------------|------|-----------------|---------------------|----------------------|--|
| OUTPUT - WORKSHEET D                                                                   |         | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |      |                 |                     | LCAT Rel: 1.0.4      |  |
| SHEET 2 of 10                                                                          |         |                                          |      |                 |                     | Issued: 7/31/95      |  |
| COMPANY: CINCINNATI BELL TEL                                                           |         | CIRCUIT DESIGN: 2 CDLC                   |      | STUDY YR: 1996  |                     |                      |  |
| CITY / AREA: CINCINNATI                                                                |         | LOOP SPAN DIVISION: ALL LOOP SPANS       |      | TEST CASE: 1    |                     |                      |  |
| STATE / PROV: OHIO                                                                     |         | SERVICE CLASS: BAND 3 - BUSINESS PBX     |      | DATE: 28-Jan-97 |                     |                      |  |
| JOB IDENT: CINCINNATI                                                                  |         | TOTAL LOOP LENGTH: 5808 FEET             |      | TIME: 09:12     |                     |                      |  |
| Circuit Design Mix: 0.00001 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                                                                                   |         |                                          |      |                 |                     |                      |  |
| CODE                                                                                   |         |                                          |      |                 |                     |                      |  |
| PLANT                                                                                  |         |                                          |      |                 |                     |                      |  |
| ITEM DESCRIPTION                                                                       |         |                                          |      |                 |                     |                      |  |
| <b>SHARED RESOURCES</b>                                                                |         |                                          |      |                 |                     |                      |  |
| 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                  |  |
| <b>DIRECT RESOURCES</b>                                                                |         |                                          |      |                 |                     |                      |  |
| 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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|                              |  |                                                                     |         |                      |         |                     |                 |                                |           |
|------------------------------|--|---------------------------------------------------------------------|---------|----------------------|---------|---------------------|-----------------|--------------------------------|-----------|
| C:\123R24\LCATR031\RESULTS1  |  | LOOP COST ANALYSIS TOOL                                             |         |                      |         |                     | Bellcore (R)    |                                |           |
| OUTPUT - WORKSHEET D         |  | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                            |         |                      |         |                     | LCAT Rel: 1.0.4 |                                |           |
| SHEET 3 of 10                |  |                                                                     |         |                      |         |                     | Issued: 7/31/95 |                                |           |
| COMPANY: CINCINNATI BELL TEL |  | CIRCUIT DESIGN: MELDED                                              |         | CDLC                 |         | STUDY YR: 1996      |                 |                                |           |
| CITY / AREA: CINCINNATI      |  | LOOP SPAN DIVISION: ALL LOOP                                        |         | SPANS                |         | TEST CASE: 1        |                 |                                |           |
| STATE / PROV: OHIO           |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                                |         |                      |         | RUN DATE: 28-Jan-97 |                 |                                |           |
| JOB IDENT: CINCINNATI        |  | TOTAL LOOP LENGTH: 5608 FEET                                        |         |                      |         | TIME: 09:12         |                 |                                |           |
| Technology Type Mix: 0.0000  |  | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |                      |         |                     |                 | TECHNOLOGY WEIGHTED TOTAL LOOP |           |
| PLANT NAME                   |  | FEEDER                                                              |         | DISTRIBUTION NETWORK |         | TOTAL LOOP          |                 | TOTAL LOOP                     |           |
| SEG. NAME                    |  | PRIMARY                                                             |         | EXTENSION            |         | SUB-                |                 | INTERFACE                      |           |
| EQPT                         |  |                                                                     |         |                      |         |                     |                 |                                |           |
| CODE                         |  |                                                                     |         |                      |         |                     |                 |                                |           |
| PLANT                        |  |                                                                     |         |                      |         |                     |                 |                                |           |
| ITEM DESCRIPTION             |  |                                                                     |         |                      |         |                     |                 |                                |           |
| SHARED RESOURCES             |  |                                                                     |         |                      |         |                     |                 |                                |           |
| LAND                         |  | 20C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.01 | \$ 0.00             | \$ 0.00         | \$ 0.01                        | \$ 0.0000 |
| BUILDING                     |  | 10C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.28 | \$ 0.00             | \$ 0.00         | \$ 0.28                        | \$ 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              | \$ 0.29 | \$ 0.00             | \$ 0.00         | \$ 0.29                        | \$ 0.0000 |
| POLE LINE                    |  | 1C                                                                  | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 0.00         | \$ 0.00                        | \$ 0.0000 |
| CONDUIT                      |  | 4C                                                                  | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 0.00         | \$ 0.00                        | \$ 0.0000 |
| DIRECT RESOURCES             |  |                                                                     |         |                      |         |                     |                 |                                |           |
| LAND                         |  | 20C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 0.00         | \$ 0.00                        | \$ 0.0000 |
| BUILDING                     |  | 10C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 0.00         | \$ 0.00                        | \$ 0.0000 |
| BLDG ENTRANCE CABLE          |  | 12C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 2.45         | \$ 2.45                        | \$ 0.0000 |
| INTRABLDG CABLE              |  | 52C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 0.00         | \$ 0.00                        | \$ 0.0000 |
| AERIAL CABLE (COPPER)        |  | 22C                                                                 | \$ 0.00 | \$ 0.00              | \$ 2.31 | \$ 2.55             | \$ 0.00         | \$ 4.86                        | \$ 0.0000 |
| BURIED CABLE (COPPER)        |  | 45C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.16 | \$ 2.61             | \$ 0.00         | \$ 2.77                        | \$ 0.0000 |
| UNDERGROUND (CU) CA.         |  | 5C                                                                  | \$ 0.00 | \$ 0.00              | \$ 0.41 | \$ 0.00             | \$ 0.00         | \$ 0.41                        | \$ 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              | \$ 2.28 | \$ 0.00             | \$ 0.00         | \$ 2.28                        | \$ 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              | \$ 0.55 | \$ 0.61             | \$ 0.00         | \$ 1.16                        | \$ 0.0000 |
| CONDUIT                      |  | 4C                                                                  | \$ 0.00 | \$ 0.00              | \$ 0.15 | \$ 0.00             | \$ 0.00         | \$ 0.15                        | \$ 0.0000 |
| SPAN SUMMARY                 |  |                                                                     | \$ 0.00 | \$ 0.00              | \$ 6.44 | \$ 5.77             | \$ 2.45         | \$ 14.66                       | \$ 0.00   |
| TECHNOLOGY DESIGN SUMMARY    |  |                                                                     |         |                      |         |                     |                 | \$ 14.66                       |           |

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| A B C D E F G |  | C:\123R24\LCATR031\RESULTS1<br>OUTPUT - WORKSHEET D<br>SHEET 4 of 10                  |         | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |      |                     |          | Bellcore (R)<br>LCAT Rel: 1.0.4<br>Issued: 7/31/95 |      |
|---------------|--|---------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------|------|---------------------|----------|----------------------------------------------------|------|
|               |  | COMPANY: CINCINNATI BELL TEL                                                          |         | CIRCUIT DESIGN: 1 FOMUX                                             |      | STUDY YR: 1996      |          |                                                    |      |
|               |  | CITY / AREA: CINCINNATI                                                               |         | LOOP SPAN DIVISION: ALL LOOP SPANS                                  |      | TEST CASE: 1        |          |                                                    |      |
|               |  | STATE / PROV: OHIO                                                                    |         | SERVICE CLASS: BAND 3 - BUSINESS PBX                                |      | RUN DATE: 25-Jan-97 |          |                                                    |      |
|               |  | JOB IDENT: CINCINNATI                                                                 |         | TOTAL LOOP LENGTH: 5608 FEET                                        |      | TIME: 09:12         |          |                                                    |      |
| 0             |  | Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |                                                                     |      |                     |          |                                                    |      |
| 1             |  | PLANT NAME                                                                            | FEEDER  | DISTRIBUTION NETWORK                                                |      | TOTAL               | WEIGHTED |                                                    |      |
| 2             |  | SEG. NAME                                                                             | PRIMARY | EXTENSION                                                           | SUB~ | INTERFACE           | LOOP     | TOTAL                                              | LOOP |
| 3             |  | EQPT                                                                                  |         |                                                                     |      |                     |          |                                                    |      |
| 4             |  | 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 - LOW CAP TERM                                                                | 257C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 37            |  | CO EQPT - LOW CAP CHAN                                                                | 257C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 38            |  | CO EQPT - HI CAP TERM                                                                 | 857C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 39            |  | CO EQPT - HI CAP CHAN                                                                 | 857C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 40            |  | CO EQPT - ANALOG SW                                                                   | 77C     |                                                                     |      |                     | \$0      | \$0                                                |      |
| 41            |  | CO EQPT - DIGITAL SW                                                                  | 377C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 42            |  | AERIAL CABLE (FIBER)                                                                  | 822C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 43            |  | BURIED CABLE (FIBER)                                                                  | 845C    |                                                                     |      |                     | \$0      | \$0                                                |      |
| 44            |  | UNDERGROUND (FO) CA.                                                                  | 85C     |                                                                     |      |                     | \$0      | \$0                                                |      |
| 45            |  | CONNECTORS                                                                            | 57C     |                                                                     |      |                     | \$0      | \$0                                                |      |
| 46            |  | MISC. COM EQP & PWR                                                                   | 57C     |                                                                     |      |                     | \$0      | \$0                                                |      |
| 47            |  | POLE LINE                                                                             | 1C      |                                                                     |      |                     | \$0      | \$0                                                |      |
| 48            |  | CONDUIT                                                                               | 4C      |                                                                     |      |                     | \$0      | \$0                                                |      |
| 49            |  |                                                                                       |         |                                                                     |      |                     |          |                                                    |      |
| 50            |  | SPAN SUMMARY                                                                          |         | \$0                                                                 | \$0  | \$0                 | \$0      | \$0                                                |      |
| 51            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                |      |
| 52            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                |      |
| 53            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                |      |
| 54            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                |      |
| 55            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                |      |

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| A<br>B<br>C<br>D<br>E<br>F<br>G |  | C:\123R24\LCATR031\RESULTS1<br>OUTPUT - WORKSHEET D<br>SHEET 5 of 10                   |  | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |  |                      |  | Bellcore       |  |
|---------------------------------|--|----------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|----------------------|--|----------------|--|
|                                 |  | COMPANY: CINCINNATI BELL TEL                                                           |  | CIRCUIT DESIGN: 2 FOMUX                                             |  | LCAT Rel: 1.0.4      |  | STUDY YR: 1996 |  |
|                                 |  | CITY / AREA: CINCINNATI                                                                |  | LOOP SPAN DIVISION: ALL LOOP SPANS                                  |  | Issued: 7/31/95      |  | TEST CASE: 1   |  |
|                                 |  | STATE / PROV: OHIO                                                                     |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                                |  | RUN DATE: 28-Jan-97  |  | TIME: 09:12    |  |
|                                 |  | JOB IDENT: CINCINNATI                                                                  |  | TOTAL LOOP LENGTH: 5608 FEET                                        |  |                      |  |                |  |
| 0                               |  | Circuit Design Mix: 10.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |  |                                                                     |  |                      |  |                |  |
| 1                               |  | PLANT NAME                                                                             |  | FEEDER                                                              |  | DISTRIBUTION NETWORK |  | TOTAL          |  |
| 2                               |  | SEG. NAME                                                                              |  | PRIMARY                                                             |  | EXTENSION            |  | SUB-           |  |
| 3                               |  | EQPT                                                                                   |  |                                                                     |  | INTERFACE            |  | LOOP           |  |
| 4                               |  | CODE                                                                                   |  |                                                                     |  |                      |  | WEIGHTED       |  |
| 5                               |  | PLANT                                                                                  |  |                                                                     |  |                      |  | TOTAL          |  |
| 6                               |  | ITEM DESCRIPTION                                                                       |  |                                                                     |  |                      |  | LOOP           |  |
| 7                               |  | <u>SHARED RESOURCES</u>                                                                |  |                                                                     |  |                      |  | 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                              |  | <u>DIRECT RESOURCES</u>                                                                |  |                                                                     |  |                      |  |                |  |
| 30                              |  | LAND                                                                                   |  | 20C                                                                 |  |                      |  | \$0            |  |
| 31                              |  | BUILDING                                                                               |  | 10C                                                                 |  |                      |  | \$0            |  |
| 32                              |  | BLDG ENTRANCE CABLE                                                                    |  | 12C                                                                 |  |                      |  | \$0            |  |
| 33                              |  | INTRABLDG CABLE                                                                        |  | 52C                                                                 |  |                      |  | \$0            |  |
| 34                              |  | AERIAL CABLE (COPPER)                                                                  |  | 22C                                                                 |  |                      |  | \$0            |  |
| 35                              |  | BURIED CABLE (COPPER)                                                                  |  | 45C                                                                 |  |                      |  | \$0            |  |
| 36                              |  | UNDERGROUND (CU) CA.                                                                   |  | 5C                                                                  |  |                      |  | \$0            |  |
| 37                              |  | CO EQPT - LOW CAP TERM                                                                 |  | 257C                                                                |  |                      |  | \$0            |  |
| 38                              |  | CO EQPT - LOW CAP CHAN                                                                 |  | 257C                                                                |  |                      |  | \$0            |  |
| 39                              |  | CO EQPT - HI CAP TERM                                                                  |  | 857C                                                                |  |                      |  | \$0            |  |
| 40                              |  | CO EQPT - HI CAP CHAN                                                                  |  | 857C                                                                |  |                      |  | \$0            |  |
| 41                              |  | CO EQPT - ANALOG SW                                                                    |  | 77C                                                                 |  |                      |  | \$0            |  |
| 42                              |  | CO EQPT - DIGITAL SW                                                                   |  | 377C                                                                |  |                      |  | \$0            |  |
| 43                              |  | AERIAL CABLE (FIBER)                                                                   |  | 822C                                                                |  |                      |  | \$0            |  |
| 44                              |  | BURIED CABLE (FIBER)                                                                   |  | 845C                                                                |  |                      |  | \$0            |  |
| 45                              |  | UNDERGROUND (FO) CA.                                                                   |  | 85C                                                                 |  |                      |  | \$0            |  |
| 46                              |  | CONNECTORS                                                                             |  | 57C                                                                 |  |                      |  | \$0            |  |
| 47                              |  | MISC. COM EQP & PWR                                                                    |  | 57C                                                                 |  |                      |  | \$0            |  |
| 48                              |  | POLE LINE                                                                              |  | 1C                                                                  |  |                      |  | \$0            |  |
| 49                              |  | CONDUIT                                                                                |  | 4C                                                                  |  |                      |  | \$0            |  |
| 50                              |  |                                                                                        |  |                                                                     |  |                      |  |                |  |
| 51                              |  | SPAN SUMMARY                                                                           |  | \$0                                                                 |  | \$0                  |  | \$0            |  |
| 52                              |  |                                                                                        |  |                                                                     |  |                      |  |                |  |
| 53                              |  |                                                                                        |  |                                                                     |  |                      |  |                |  |
| 54                              |  |                                                                                        |  |                                                                     |  |                      |  |                |  |
| 55                              |  |                                                                                        |  |                                                                     |  |                      |  |                |  |

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A  
B  
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GC:\123R24\LCATR031\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 6 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellcore**LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:12COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 3 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - BUSINESS PBX  
TOTAL LOOP LENGTH: 5606 FEET

| Circuit Design Mix: 1.0000 |           | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |         |                                   | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|----------------------------|-----------|------------------------------------------------------------|---------|---------|-----------------------------------|---------------|---------------------------|
| PLANT NAME                 | SEG. NAME | PRIMARY                                                    | FEEDER  | SUB--   | DISTRIBUTION NETWORK<br>INTERFACE |               |                           |
| EQPT                       | CODE      |                                                            |         |         |                                   |               |                           |
| PLANT                      |           |                                                            |         |         |                                   |               |                           |
| ITEM DESCRIPTION           |           |                                                            |         |         |                                   |               |                           |
| <b>SHARED RESOURCES</b>    |           |                                                            |         |         |                                   |               |                           |
| LAND                       | 20C       | \$ 0.00                                                    |         | \$ 0.01 | \$ 0.00                           | \$ 0.01       | \$ 0.01                   |
| BUILDING                   | 10C       | \$ 0.00                                                    |         | \$ 0.28 | \$ 0.00                           | \$ 0.28       | \$ 0.28                   |
| 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                                                    |         | \$ 0.29 | \$ 0.00                           | \$ 0.29       | \$ 0.29                   |
| 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                   |
| <b>DIRECT RESOURCES</b>    |           |                                                            |         |         |                                   |               |                           |
| LAND                       | 20C       | \$ 0.00                                                    |         | \$ 0.00 | \$ 0.00                           | \$ 0.00       | \$ 0.00                   |
| BUILDING                   | 10C       | \$ 0.00                                                    |         | \$ 0.00 | \$ 0.00                           | \$ 0.00       | \$ 0.00                   |
| BLDG ENTRANCE CABLE        | 12C       | \$ 0.00                                                    |         | \$ 0.00 | \$ 0.00                           | \$ 2.45       | \$ 2.45                   |
| INTRABLDG CABLE            | 52C       | \$ 0.00                                                    |         | \$ 0.00 | \$ 0.00                           | \$ 0.00       | \$ 0.00                   |
| AERIAL CABLE (COPPER)      | 22C       | \$ 0.00                                                    |         | \$ 2.31 | \$ 2.55                           | \$ 4.86       | \$ 4.86                   |
| BURIED CABLE (COPPER)      | 45C       | \$ 0.00                                                    |         | \$ 0.16 | \$ 2.61                           | \$ 2.77       | \$ 2.77                   |
| UNDERGROUND (CU) CA.       | 5C        | \$ 0.00                                                    |         | \$ 0.41 | \$ 0.00                           | \$ 0.41       | \$ 0.41                   |
| 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                                                    |         | \$ 2.28 | \$ 0.00                           | \$ 2.28       | \$ 2.28                   |
| 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                                                    |         | \$ 0.55 | \$ 0.00                           | \$ 0.55       | \$ 1.16                   |
| CONDUIT                    | 4C        | \$ 0.00                                                    |         | \$ 0.15 | \$ 0.00                           | \$ 0.15       | \$ 0.15                   |
| SPAN SUMMARY               |           | \$ 0.00                                                    | \$ 0.00 | \$ 6.44 | \$ 5.72                           | \$ 14.66      | \$ 14.66                  |
|                            |           |                                                            |         |         |                                   | \$ 14.66      |                           |

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| LOOP COST ANALYSIS TOOL                                                               |  |         |  |                      |                                      |            |  |                     |  | Bellcore <sup>®</sup> |  |
|---------------------------------------------------------------------------------------|--|---------|--|----------------------|--------------------------------------|------------|--|---------------------|--|-----------------------|--|
| 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 3 - BUSINESS PBX |            |  |                     |  | RUN DATE: 28-Jan-97   |  |
| JOB IDENT: CINCINNATI                                                                 |  |         |  |                      | TOTAL LOOP LENGTH: 5608 FEET         |            |  |                     |  | TIME: 09:12           |  |
| Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |  |         |  |                      |                                      |            |  |                     |  |                       |  |
| PLANT NAME                                                                            |  | FEEDER  |  | DISTRIBUTION NETWORK |                                      | TOTAL LOOP |  | WEIGHTED TOTAL LOOP |  |                       |  |
| SEG. NAME                                                                             |  | PRIMARY |  | EXTENSION            |                                      | SUB-       |  | INTERFACE           |  |                       |  |
| EQPT                                                                                  |  |         |  |                      |                                      |            |  |                     |  |                       |  |
| PLANT CODE                                                                            |  |         |  |                      |                                      |            |  |                     |  |                       |  |
| ITEM DESCRIPTION                                                                      |  |         |  |                      |                                      |            |  |                     |  |                       |  |
| <u>SHARED RESOURCES</u>                                                               |  |         |  |                      |                                      |            |  |                     |  |                       |  |
| LAND                                                                                  |  | 20C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BUILDING                                                                              |  | 10C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BLDG ENTRANCE CABLE                                                                   |  | 12C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| INTRABLDG CABLE                                                                       |  | 52C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| AERIAL CABLE (COPPER)                                                                 |  | 22C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BURIED CABLE (COPPER)                                                                 |  | 45C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| UNDERGROUND (CU) CA.                                                                  |  | 5C      |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - LOW CAP TERM                                                                |  | 257C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - LOW CAP CHAN                                                                |  | 257C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - HI CAP TERM                                                                 |  | 857C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - HI CAP CHAN                                                                 |  | 857C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - ANALOG SW                                                                   |  | 77C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - DIGITAL SW                                                                  |  | 377C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| AERIAL CABLE (FIBER)                                                                  |  | 822C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BURIED CABLE (FIBER)                                                                  |  | 845C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| UNDERGROUND (FO) CA.                                                                  |  | 85C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CONNECTORS                                                                            |  | 57C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| MISC. COM EQP & PWR                                                                   |  | 57C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| POLE LINE                                                                             |  | 1C      |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CONDUIT                                                                               |  | 4C      |  |                      |                                      |            |  |                     |  | \$0                   |  |
| <u>DIRECT RESOURCES</u>                                                               |  |         |  |                      |                                      |            |  |                     |  |                       |  |
| LAND                                                                                  |  | 20C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BUILDING                                                                              |  | 10C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BLDG ENTRANCE CABLE                                                                   |  | 12C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| INTRABLDG CABLE                                                                       |  | 52C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| AERIAL CABLE (COPPER)                                                                 |  | 22C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BURIED CABLE (COPPER)                                                                 |  | 45C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| UNDERGROUND (CU) CA.                                                                  |  | 5C      |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - LOW CAP TERM                                                                |  | 257C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - LOW CAP CHAN                                                                |  | 257C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - HI CAP TERM                                                                 |  | 857C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - HI CAP CHAN                                                                 |  | 857C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - ANALOG SW                                                                   |  | 77C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CO EQPT - DIGITAL SW                                                                  |  | 377C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| AERIAL CABLE (FIBER)                                                                  |  | 822C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| BURIED CABLE (FIBER)                                                                  |  | 845C    |  |                      |                                      |            |  |                     |  | \$0                   |  |
| UNDERGROUND (FO) CA.                                                                  |  | 85C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CONNECTORS                                                                            |  | 57C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| MISC. COM EQP & PWR                                                                   |  | 57C     |  |                      |                                      |            |  |                     |  | \$0                   |  |
| POLE LINE                                                                             |  | 1C      |  |                      |                                      |            |  |                     |  | \$0                   |  |
| CONDUIT                                                                               |  | 4C      |  |                      |                                      |            |  |                     |  | \$0                   |  |
| SPAN SUMMARY                                                                          |  | \$0     |  | \$0                  |                                      | \$0        |  | \$0                 |  | \$0                   |  |

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| C:\123R24\LCATR031\RESULTS1  |                        | LOOP COST ANALYSIS TOOL                                    |                      |                     |           | Bellcore (R)    |          |
|------------------------------|------------------------|------------------------------------------------------------|----------------------|---------------------|-----------|-----------------|----------|
| OUTPUT - WORKSHEET D         |                        | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                   |                      |                     |           | LCAT Rel: 1.0.4 |          |
| SHEET 8 of 10                |                        |                                                            |                      |                     |           | Issued: 7/31/95 |          |
| COMPANY: CINCINNATI BELL TEL |                        | CIRCUIT DESIGN: 5 FOMUX                                    |                      | STUDY YR: 1996      |           | TEST CASE: 1    |          |
| CITY / AREA: CINCINNATI      |                        | LOOP SPAN DIVISION: ALL LOOP SPANS                         |                      | RUN DATE: 28-Jan-97 |           | TIME: 09:12     |          |
| STATE / PROV: OHIO           |                        | SERVICE CLASS: BAND 3 - BUSINESS PBX                       |                      |                     |           |                 |          |
| JOB IDENT: CINCINNATI        |                        | TOTAL LOOP LENGTH: 5608 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     |
| SEG. NAME                    |                        | PRIMARY                                                    | EXTENSION            | SUB-                | INTERFACE |                 |          |
| EQPT CODE                    |                        |                                                            |                      |                     |           |                 |          |
| PLANT                        |                        |                                                            |                      |                     |           |                 |          |
| ITEM DESCRIPTION             |                        |                                                            |                      |                     |           |                 |          |
| <b>SHARED RESOURCES</b>      |                        |                                                            |                      |                     |           |                 |          |
| 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      |
| <b>DIRECT RESOURCES</b>      |                        |                                                            |                      |                     |           |                 |          |
| 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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| C:\123R24\LCATR031\RESULTS1  |         | LOOP COST ANALYSIS TOOL                                    |      |                     |       | Belcore (A)     |          |
|------------------------------|---------|------------------------------------------------------------|------|---------------------|-------|-----------------|----------|
| 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: 1995      |       |                 |          |
| CITY / AREA: CINCINNATI      |         | LOOP SPAN DIVISION: ALL LOOP SPANS                         |      | TEST CASE: 1        |       |                 |          |
| STATE / PROV: OHIO           |         | SERVICE CLASS: BAND 3 - BUSINESS PBX                       |      | RUN DATE: 28-Jan-97 |       |                 |          |
| JOB IDENT: CINCINNATI        |         | TOTAL LOOP LENGTH: 5608 FEET                               |      | TIME: 09:12         |       |                 |          |
| Circuit Design Mix: 10.0000  |         | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |      |                     |       | TOTAL           | WEIGHTED |
| PLANT NAME                   | FEEDER  | DISTRIBUTION NETWORK                                       |      | TOTAL               | TOTAL |                 |          |
| SEG. NAME                    | PRIMARY | EXTENSION                                                  | SUB- | INTERFACE           | LOOP  | LOOP            |          |
| EQPT                         |         |                                                            |      |                     |       |                 |          |
| PLANT                        | CODE    |                                                            |      |                     |       |                 |          |
| ITEM DESCRIPTION             |         |                                                            |      |                     |       |                 |          |
| <b>SHARED RESOURCES</b>      |         |                                                            |      |                     |       |                 |          |
| 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             |          |
| <b>DIRECT RESOURCES</b>      |         |                                                            |      |                     |       |                 |          |
| 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             |          |

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|                              |  |                                                                     |         |                      |         |                     |         |                 |           |
|------------------------------|--|---------------------------------------------------------------------|---------|----------------------|---------|---------------------|---------|-----------------|-----------|
| C:\123R24\LCATR031\RESULTS1  |  | LOOP COST ANALYSIS TOOL                                             |         |                      |         |                     |         | Bellcore        |           |
| OUTPUT - WORKSHEET D         |  | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                            |         |                      |         |                     |         | LCAT Rel: 1.0.4 |           |
| SHEET 10 of 10               |  |                                                                     |         |                      |         |                     |         | Issued: 7/31/95 |           |
| COMPANY: CINCINNATI BELL TEL |  | CIRCUIT DESIGN: MELDED                                              |         | FOMUX                |         | STUDY YR: 1996      |         |                 |           |
| CITY / AREA: CINCINNATI      |  | LOOP SPAN DIVISION: ALL LOOP                                        |         | SPANS                |         | TEST CASE: 1        |         |                 |           |
| STATE / PROV: OHIO           |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                                |         |                      |         | RUN DATE: 28-Jan-97 |         |                 |           |
| JOB IDENT: CINCINNATI        |  | TOTAL LOOP LENGTH: 5608 FEET                                        |         |                      |         | TIME: 09:12         |         |                 |           |
| 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                         |  |                                                                     |         |                      |         |                     |         | LOOP            |           |
| CODE                         |  |                                                                     |         |                      |         |                     |         | TOTAL           |           |
| PLANT                        |  |                                                                     |         |                      |         |                     |         | LOOP            |           |
| ITEM DESCRIPTION             |  |                                                                     |         |                      |         |                     |         |                 |           |
| SHARED RESOURCES             |  |                                                                     |         |                      |         |                     |         |                 |           |
| LAND                         |  | 20C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.01 | \$ 0.00             | \$ 0.00 | \$ 0.01         | \$ 0.0100 |
| BUILDING                     |  | 10C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.28 | \$ 0.00             | \$ 0.00 | \$ 0.28         | \$ 0.2800 |
| 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              | \$ 0.29 | \$ 0.00             | \$ 0.00 | \$ 0.29         | \$ 0.2900 |
| 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              | \$ 2.31 | \$ 2.55             | \$ 0.00 | \$ 4.86         | \$ 4.8600 |
| BURIED CABLE (COPPER)        |  | 45C                                                                 | \$ 0.00 | \$ 0.00              | \$ 0.16 | \$ 2.61             | \$ 0.00 | \$ 2.77         | \$ 2.7700 |
| UNDERGROUND (CU) CA.         |  | 5C                                                                  | \$ 0.00 | \$ 0.00              | \$ 0.41 | \$ 0.00             | \$ 0.00 | \$ 0.41         | \$ 0.4100 |
| CO EQPT - LOW CAP TERM       |  | 257C                                                                | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00             | \$ 0.00 | \$ 0.00         | \$ 0.0000 |
| CO EQPT - LOW CAP GHAN       |  | 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              | \$ 2.28 | \$ 0.00             | \$ 0.00 | \$ 2.28         | \$ 2.2800 |
| 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              | \$ 0.55 | \$ 2.61             | \$ 0.00 | \$ 3.16         | \$ 1.1600 |
| CONDUIT                      |  | 4C                                                                  | \$ 0.00 | \$ 0.00              | \$ 0.15 | \$ 0.00             | \$ 0.00 | \$ 0.15         | \$ 0.1500 |
| SPAN SUMMARY                 |  |                                                                     | \$ 0.00 | \$ 0.00              | \$ 6.44 | \$ 5.24             | \$ 2.45 | \$ 14.66        | \$ 14.66  |
|                              |  |                                                                     |         |                      |         |                     |         | \$ 14.66        |           |

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Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

## LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 8/31/95

08:49

## DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 0 - 18000 FEET INTRAS

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

|           |           |           |          |
|-----------|-----------|-----------|----------|
| BASIS     | NETWORK   | TEST CASE | 1        |
| FR / DS   | FLAT RATE | #BANDS    | 0        |
| SVC LEVEL | NARBAND   | #CKTS     | 10       |
| CST METH  | UN INCR   | INV LEVEL | ANY COST |

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PRIOR TO RELEASE TO PUBLIC  
PROVIDED TO PUCO

your run is finished

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0123R24/LCATCALC/DIST  
DIST\_PLNT - WORKSHEET A  
Sheet 1 of 3

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

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

Belcore®  
LCAT Release: 1.0.4  
Issue Date: 8/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:06

| SEGMENT LENGTH<br>IN FEET                                                                  | TYPE OF<br>CABLE<br>PLANT | FROM<br>TABLE 2 -<br>RELATIVE<br>MIX OF<br>TYPE OF<br>CA. PLANT | LENGTH<br>SUBSET<br>BY TYPE<br>OF PLANT | FROM<br>TABLE 4 -<br>CABLE<br>INVESTMENT<br>PER<br>PAIR FOOT | CABLE<br>INVESTMENT<br>PER PAIR | (NOTE 4)<br>WEIGHTED<br>TERMINAL<br>INVESTMENT    | CABLE COMPONENTS                                  |      | (NOTE 4)<br>WEIGHTED<br>DROP WIRE<br>INVESTMENT |
|--------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|---------------------------------|---------------------------------------------------|---------------------------------------------------|------|-------------------------------------------------|
|                                                                                            |                           | [B]                                                             | [C=A*B]                                 | [D]                                                          | [E=C*D]                         | AIR DRYER<br>INVESTMENT<br>PER PAIR<br>[F=E*fctr] | DROP WIRE<br>ADJUSTMENT<br>PER PAIR<br>[F=E*fctr] |      |                                                 |
| 1095.0                                                                                     | AERIAL                    | 0.580000                                                        | 635.1                                   | 0.041800                                                     | 26.55                           |                                                   | 0.00                                              | 0.00 |                                                 |
| CONSIDERS:<br>MELODED                                                                      | BURIED                    | 0.420000                                                        | 459.9                                   | 0.068800                                                     | 31.64                           |                                                   | 0.00                                              | 0.00 |                                                 |
| COPPER<br>CABLE                                                                            | UNDERGRND                 | 0.000000                                                        | 0.0                                     | 0.000000                                                     | 0.00                            |                                                   | 0.00                                              | 0.00 |                                                 |
| Check =                                                                                    |                           | 1.000000                                                        | 1095.0                                  |                                                              |                                 |                                                   |                                                   |      |                                                 |
| OUTSIDE PLANT LOADINGS                                                                     |                           | (NOTE 4)                                                        |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| DROP WIRE ADJUSTMENT:                                                                      |                           | AIR DRYER LOADINGS:                                             |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| AERIAL CA. =                                                                               | 0.0000                    | AERIAL CA. =                                                    | 0.0000                                  |                                                              |                                 |                                                   |                                                   |      |                                                 |
| BURIED CA. =                                                                               | 0.0000                    | BURIED CA. =                                                    | 0.0000                                  |                                                              |                                 |                                                   |                                                   |      |                                                 |
| UNDERGRND =                                                                                | 0.0000                    | UNDERGRND =                                                     | 0.0000                                  |                                                              |                                 |                                                   |                                                   |      |                                                 |
| OTHER INVESTMENT                                                                           |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| inv / unit lgth:                                                                           | inv rtm fctr:             |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| POLE LINE FACTOR (PLF) =                                                                   | 0.0000                    |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =                                         | \$19.19                   |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| UG CONDUIT FACTOR (UCF) =                                                                  | 0.0000                    |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =                                            | \$0.00                    |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| FOOTNOTES                                                                                  |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                              |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.                                      |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO  |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |
| (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)                                        |                           |                                                                 |                                         |                                                              |                                 |                                                   |                                                   |      |                                                 |

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| LOOP COST ANALYSIS TOOL                                                                          |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | Bellcore (P)               |  |
|--------------------------------------------------------------------------------------------------|-----------------|-----------------|---------------------|---------------------------------------------------|----------------------|----------------------------------------------------------------------|---------------------------|----------------------------|----------------------------------------------------------------------|----------------------------|--|
| ACCOUNT INVESTMENT WORKSHEET                                                                     |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | LCAT Release: 1.0.4        |  |
| SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL                             |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | Issue Date: 8/31/95        |  |
| FACILITY TYPE: COPPER CABLE                                                                      |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | STUDY YR: 1996             |  |
| CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)                                        |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | TEST CASE: 1               |  |
| SERVICE CLASS: BAND 3 - BUSINESS PBX                                                             |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | RUN DATE: 28-Jan-97        |  |
|                                                                                                  |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      | TIME: 09:05                |  |
| PLANT ITEM                                                                                       | PLANT ACCT CODE | CAT. FIXED VARI | RESOURCE ALLOCATION | 1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F] | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G] | DIRECT RESOURCES [H'=F*G] | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J] | DIRECT RESOURCES [K'=H'/J] |  |
| LAND                                                                                             | 20C             | F               | SHARED              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| BUILDING                                                                                         | 10C             | F               | SHARED              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| BLDG ENTRANCE CABLE                                                                              | 12C             | V               | DIRECT              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| INTRABLDG CABLE                                                                                  | 52C             | V               | DIRECT              |                                                   |                      |                                                                      |                           | 0.3500                     |                                                                      |                            |  |
| AERIAL CABLE (COPPER)                                                                            | 22C             | V               | DIRECT              | 26.55                                             | 1                    |                                                                      | \$ 27                     | 0.3500                     |                                                                      | \$ 76                      |  |
| BURIED CABLE (COPPER)                                                                            | 45C             | V               | DIRECT              | 31.64                                             | 1                    |                                                                      | \$ 32                     | 0.3500                     |                                                                      | \$ 90                      |  |
| UNDERGROUND (CU) CA.                                                                             | 5C              | V               | DIRECT              | 0.00                                              |                      |                                                                      |                           | 0.3500                     |                                                                      |                            |  |
| CO EQPT - P GAIN TERM                                                                            | 257C            | F               | DIRECT              |                                                   |                      |                                                                      |                           | 0.7000                     |                                                                      |                            |  |
| CO EQPT - P GAIN CHAN                                                                            | 257C            | V               | DIRECT              |                                                   |                      |                                                                      |                           | 0.7000                     |                                                                      |                            |  |
| CO EQPT - FO MUX TERM                                                                            | 857C            | F               | DIRECT              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| CO EQPT - FO MUX CHAN                                                                            | 857C            | F               | DIRECT              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| CO EQPT - ANALOG SW                                                                              | 77C             | V               | DIRECT              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| CO EQPT - DIGITAL SW                                                                             | 377C            | V               | DIRECT              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| AERIAL CABLE (FIBER)                                                                             | 822C            | F               | DIRECT              |                                                   |                      |                                                                      |                           | 0.0000                     |                                                                      |                            |  |
| BURIED CABLE (FIBER)                                                                             | 845C            | F               | DIRECT              |                                                   |                      |                                                                      |                           | 0.0000                     |                                                                      |                            |  |
| UNDERGROUND (FO) CA.                                                                             | 85C             | F               | DIRECT              |                                                   |                      |                                                                      |                           | 0.0000                     |                                                                      |                            |  |
| CONNECTORS                                                                                       | 57C             | V               | DIRECT              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| MISC. COM EQP & PWR                                                                              | 57C             | V               | SHARED              |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| POLE LINE                                                                                        | 1C              | F               | DIRECT              | 19.19                                             | 1                    |                                                                      | \$ 19                     | 1.0000                     |                                                                      | \$ 19                      |  |
| CONDUIT                                                                                          | 4C              | F               | DIRECT              | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
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| \$ 185<br>\$ 185<br>distinvi                                                                     |                 |                 |                     |                                                   |                      |                                                                      |                           |                            |                                                                      |                            |  |
| 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\_PLINT - WORKSHEET A  
Sheet 3 of 3

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

# LOOP COST ANALYSIS TOOL

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

SERVICE CLASS: BAND 3 - BUSINESS PEX

Belcore (R)  
LCAT Release: 1.0.4  
Issue Date: 6/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:06

| PLANT ITEM               | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENT BY ACCOUNT |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                             |
|--------------------------|-----------------|----------------------|--------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-----------------------------|
|                          |                 |                      | SHARED RESOURCES [M=K*L]             | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12] |
| 8 LAND                   | 20C             | 1.0000               |                                      |                            | 0.2322                 |                                   |                            |                                              |                             |
| 9 BUILDING               | 10C             | 1.0000               |                                      |                            | 0.2937                 |                                   |                            |                                              |                             |
| 10 BLDG ENTRANCE CABLE   | 12C             | 1.0000               |                                      |                            | 0.3922                 |                                   |                            |                                              |                             |
| 11 INTRABLDG CABLE       | 52C             | 1.0000               |                                      |                            | 0.3922                 |                                   |                            |                                              |                             |
| 12 AERIAL CABLE (COPPER) | 22C             | 1.0000               |                                      | \$ 76                      | 0.4033                 |                                   | \$ 30.59                   |                                              | \$ 2.55                     |
| 13 BURIED CABLE (COPPER) | 45C             | 1.0000               |                                      | \$ 90                      | 0.3467                 |                                   | \$ 31.34                   |                                              | \$ 2.61                     |
| 14 UNDERGROUND (CU) CA.  | 5C              | 1.0000               |                                      |                            | 0.3663                 |                                   |                            |                                              |                             |
| 15 CO EQPT - P GAIN TERM | 257C            | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| 16 CO EQPT - P GAIN CHAN | 257C            | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| 17 CO EQPT - FO MUX TERM | 857C            | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| 18 CO EQPT - FO MUX CHAN | 857C            | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| 19 CO EQPT - ANALOG SW   | 77C             | 1.0000               |                                      |                            | 0.0000                 |                                   |                            |                                              |                             |
| 20 CO EQPT - DIGITAL SW  | 377C            | 1.0000               |                                      |                            | 0.3458                 |                                   |                            |                                              |                             |
| 21 AERIAL CABLE (FIBER)  | 822C            | 1.0000               |                                      |                            | 0.2983                 |                                   |                            |                                              |                             |
| 22 BURIED CABLE (FIBER)  | 845C            | 1.0000               |                                      |                            | 0.2724                 |                                   |                            |                                              |                             |
| 23 UNDERGROUND (FO) CA.  | 85C             | 1.0000               |                                      |                            | 0.2689                 |                                   |                            |                                              |                             |
| 24 CONNECTORS            | 57C             | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| 25 MISC. COM EQP & PWR   | 57C             | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| 26 POLE LINE             | 1C              | 1.0000               |                                      | \$ 19                      | 0.3807                 |                                   |                            |                                              | \$ 0.61                     |
| 27 CONDUIT               | 4C              | 1.0000               |                                      |                            | 0.2521                 |                                   |                            |                                              |                             |
| TOTALS                   |                 |                      | \$ 0                                 | \$ 185                     |                        | \$ 0.00                           | \$ 69.24                   | \$ 0.00                                      | \$ 5.77                     |
|                          |                 |                      |                                      | \$ 185                     |                        |                                   |                            |                                              | \$ 5.77                     |

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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\DIST  
DIST\_PLNT - WORKSHEET B  
Sheet 1 of 3

# LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Belcore<sup>®</sup>

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 28-Jan-97

TIME: 09:08

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

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

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

POLE LINE FACTOR (PLF) =

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

from length: from invest.:  
\$ 0.0000 0.2530

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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

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

# LOOP COST ANALYSIS TOOL

## ACCOUNT INVESTMENT WORKSHEET

Bellcore (S)

LCAT

Release: 1.0.4

STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:06

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

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

| 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] |
| 9 LAND                   | 20C             | F                        | SHARED     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 10 BUILDING              | 10C             | F                        | SHARED     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 11 BLDG ENTRANCE CABLE   | 12C             | V                        | DIRECT     | 75.00                                             | 1                    |                                             | \$ 75                      | 1.0000                     |                                             | \$ 75                      |
| 12 INTRABLDG CABLE       | 52C             | V                        | DIRECT     | 0.00                                              |                      |                                             |                            | 0.3500                     |                                             |                            |
| 13 AERIAL CABLE (COPPER) | 22C             | V                        | DIRECT     | 0.00                                              |                      |                                             |                            | 0.3500                     |                                             |                            |
| 14 BURIED CABLE (COPPER) | 45C             | V                        | DIRECT     | 0.00                                              |                      |                                             |                            | 0.3500                     |                                             |                            |
| 15 UNDERGROUND (CU) CA.  | 5C              | V                        | DIRECT     |                                                   |                      |                                             |                            | 0.3500                     |                                             |                            |
| 16 CO EQPT - P GAIN TERM | 257C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.7000                     |                                             |                            |
| 17 CO EQPT - P GAIN CHAN | 257C            | V                        | DIRECT     |                                                   |                      |                                             |                            | 0.7000                     |                                             |                            |
| 18 CO EQPT - FO MUX TERM | 857C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 19 CO EQPT - FO MUX CHAN | 857C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 20 CO EQPT - ANALOG SW   | 77C             | V                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 21 CO EQPT - DIGITAL SW  | 377C            | V                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 22 AERIAL CABLE (FIBER)  | 822C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |
| 23 BURIED CABLE (FIBER)  | 845C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |
| 24 UNDERGROUND (FO) CA.  | 85C             | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |
| 25 CONNECTORS            | 57C             | V                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 26 MISC. COM EQP & PWR   | 57C             | V                        | SHARED     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| 27 POLE LINE             | 1C              | F                        | DIRECT     | 0.00                                              |                      |                                             |                            | 1.0000                     |                                             |                            |
| 28 CONDUIT               | 4C              | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |

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\$0 \$75  
\$0 \$75  
activity

## FOOTNOTES

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

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

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

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

# LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore®

LCAT

Release: 1.0.4

STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:08

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

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

Q  
T  
M  
C  
C

0  
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| 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

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PRIOR TO RELEASE TO PUBLIC  
PROVIDED TO PUCO

## FOOTNOTES

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

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DIST\_PLNT - WORKSHEET 5

Sheet 1 of 3

## LOOP COST ANALYSIS TOOL

## BASIC INVESTMENT WORKSHEET

Bellcore

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

28-Jan-97

09:07

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

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

POLE LINE FACTOR (PLF) =

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

from length

0.0000

\$0.00

from invest.

0.2530

\$0.00

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 PROVIDED TO PUCO

## FOOTNOTES

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

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

CA123R24/LCAT/CALC/DIST  
DIST\_PLINT - WORKSHEET B  
Sheet 2 of 3

**LOOP COST ANALYSIS TOOL**  
ACCOUNT INVESTMENT WORKSHEET

Bellcore®

LCAT

Release: 1.0.4

STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:07

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

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

| PLANT ITEM            | PLANT<br>ACCT<br>CODE | CAT.<br>FIXED RESOURCE<br>VARI ALLOCATION | 1996 UNIT<br>INVESTMENT<br>BY ACCOUNT<br>COST<br>EQUATION<br>[F] | CIRCUIT<br>QUANTITY<br>[G] | 1996 UNIT<br>LOOP INVESTMENT<br>EXCL. UTILIZATION |                                  | ADMIN.<br>UTIL.<br>LINE<br>FILL<br>[J] | 1996 UNIT<br>LOOP INVESTMENT<br>INCL. UTILIZATION |                                  |
|-----------------------|-----------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------|---------------------------------------------------|----------------------------------|----------------------------------------|---------------------------------------------------|----------------------------------|
|                       |                       |                                           |                                                                  |                            | SHARED<br>RESOURCES<br>[H=F*G]                    | DIRECT<br>RESOURCES<br>[H'=F'*G] |                                        | SHARED<br>RESOURCES<br>[K=H/J]                    | DIRECT<br>RESOURCES<br>[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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| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 |                     | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE AND ANNUAL COSTS WORKSHEET |                            |                        |                                   |                            | Belcore <sup>(R)</sup><br>LCAT<br>Release: 1.0.4<br>STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 28-Jan-97<br>TIME: 09:07 |                             |
|--------------------------------------------------------------------------------|-----------------|---------------------|-------------------------------------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| PLANT ITEM                                                                     | PLANT ACCT CODE | 1996 TO 1996 TP [L] | 1996 UNIT LOOP INVESTMENT BY ACCOUNT                              |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT                                                                             |                             |
|                                                                                |                 |                     | SHARED RESOURCES [M=K*L]                                          | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                                                                                                | DIRECT RESOURCES [R'=P'/12] |
| 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              |                                                                   |                            | 0.3663                 |                                   |                            |                                                                                                                          |                             |
| 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                                                                         |                 |                     | bctshrinvs bctdlinvs                                              |                            | bctinvsy               |                                   | bctmrc                     |                                                                                                                          |                             |
|                                                                                |                 |                     | \$ 0 \$ 75                                                        |                            | \$ 75                  |                                   | \$ 29.42 \$ 2.45           |                                                                                                                          |                             |

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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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| CA123R24 LCATCALC.DIST       |                        | LOOP COST ANALYSIS TOOL                                           |         |         |         | Bellicore <sup>®</sup> |            |
|------------------------------|------------------------|-------------------------------------------------------------------|---------|---------|---------|------------------------|------------|
| DIST. PLANT - 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-COLLOC)         |         |         |         | TEST CASE: 1           |            |
| STATE / PROV: OHIO           |                        | SERVICE CLASS: BAND 3 - BUSINESS PBX                              |         |         |         | RUN DATE: 28-Jan-97    |            |
|                              |                        |                                                                   |         |         |         | TIME: 09:07            |            |
|                              |                        | logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT             |         |         |         |                        |            |
|                              |                        | BAND                                                              | MIX     |         |         | (See Note)             |            |
|                              |                        | ACCT                                                              | AVG.    | 1.0000  |         | TOTAL                  |            |
| PLANT ITEM                   |                        | CODE                                                              | LGTH.   | 5608    |         | AVG. WEIGHTED          |            |
|                              |                        | SEG. LGTH.                                                        | 1095.0  |         |         |                        | INVESTMENT |
|                              |                        |                                                                   |         |         |         |                        | 1095       |
| SHARED RESOURCES             |                        |                                                                   |         |         |         |                        |            |
| 7                            | LAND                   | 20C                                                               |         |         |         |                        | \$ 0.00    |
| 8                            | BUILDING               | 10C                                                               |         |         |         |                        | \$ 0.00    |
| 9                            | BLDG ENTRANCE CABLE    | 12C                                                               |         |         |         |                        | \$ 0.00    |
| 10                           | INTRABLDG CABLE        | 52C                                                               |         |         |         |                        | \$ 0.00    |
| 11                           | AERIAL CABLE (COPPER)  | 22C                                                               |         |         |         |                        | \$ 0.00    |
| 12                           | BURIED CABLE (COPPER)  | 45C                                                               |         |         |         |                        | \$ 0.00    |
| 13                           | UNDERGROUND (CU) CA.   | 5C                                                                |         |         |         |                        | \$ 0.00    |
| 14                           | CO EQPT - P GAIN TERM  | 257C                                                              |         |         |         |                        | \$ 0.00    |
| 15                           | CO EQPT - P GAIN CHAN  | 257C                                                              |         |         |         |                        | \$ 0.00    |
| 16                           | CO EQPT - FO MUX TERM  | 857C                                                              |         |         |         |                        | \$ 0.00    |
| 17                           | CO EQPT - FO MUX CHAN  | 857C                                                              |         |         |         |                        | \$ 0.00    |
| 18                           | CO EQPT - ANALOG SW    | 77C                                                               |         |         |         |                        | \$ 0.00    |
| 19                           | CO EQPT - DIGITAL SW   | 377C                                                              |         |         |         |                        | \$ 0.00    |
| 20                           | AERIAL CABLE (FIBER)   | 822C                                                              |         |         |         |                        | \$ 0.00    |
| 21                           | BURIED CABLE (FIBER)   | 845C                                                              |         |         |         |                        | \$ 0.00    |
| 22                           | UNDERGROUND (FO) CA.   | 85C                                                               |         |         |         |                        | \$ 0.00    |
| 23                           | CONNECTORS             | 57C                                                               |         |         |         |                        | \$ 0.00    |
| 24                           | MISC. COM EQP & PWR    | 57C                                                               |         |         |         |                        | \$ 0.00    |
| 25                           | POLE LINE              | 1C                                                                |         |         |         |                        | \$ 0.00    |
| 26                           | CONDUIT                | 4C                                                                |         |         |         |                        | \$ 0.00    |
| 27                           |                        |                                                                   |         |         |         |                        |            |
| 28                           | DIRECT RESOURCES       |                                                                   |         |         |         |                        |            |
| 29                           | LAND                   | 20C                                                               |         |         |         |                        | \$ 0.00    |
| 30                           | BUILDING               | 10C                                                               |         |         |         |                        | \$ 0.00    |
| 31                           | BLDG ENTRANCE CABLE    | 12C                                                               |         |         |         |                        | \$ 0.00    |
| 32                           | INTRABLDG CABLE        | 52C                                                               |         |         |         |                        | \$ 0.00    |
| 33                           | AERIAL CABLE (COPPER)  | 22C                                                               | \$ 2.55 |         |         | \$ 2.55                |            |
| 34                           | BURIED CABLE (COPPER)  | 45C                                                               | \$ 2.61 |         |         | \$ 2.61                |            |
| 35                           | UNDERGROUND (CU) CA.   | 5C                                                                |         |         |         |                        | \$ 0.00    |
| 36                           | CO EQPT - P GAIN TERM  | 257C                                                              |         |         |         |                        | \$ 0.00    |
| 37                           | CO EQPT - P GAIN CHAN  | 257C                                                              |         |         |         |                        | \$ 0.00    |
| 38                           | CO EQPT - FO MUX TERM  | 857C                                                              |         |         |         |                        | \$ 0.00    |
| 39                           | CO EQPT - FO MUX CHAN  | 857C                                                              |         |         |         |                        | \$ 0.00    |
| 40                           | CO EQPT - ANALOG SW    | 77C                                                               |         |         |         |                        | \$ 0.00    |
| 41                           | CO EQPT - DIGITAL SW   | 377C                                                              |         |         |         |                        | \$ 0.00    |
| 42                           | AERIAL CABLE (FIBER)   | 822C                                                              |         |         |         |                        | \$ 0.00    |
| 43                           | BURIED CABLE (FIBER)   | 845C                                                              |         |         |         |                        | \$ 0.00    |
| 44                           | UNDERGROUND (FO) CA.   | 85C                                                               |         |         |         |                        | \$ 0.00    |
| 45                           | CONNECTORS             | 57C                                                               |         |         |         |                        | \$ 0.00    |
| 46                           | MISC. COM EQP & PWR    | 57C                                                               |         |         |         |                        | \$ 0.00    |
| 47                           | POLE LINE              | 1C                                                                | \$ 0.61 |         |         | \$ 0.61                |            |
| 48                           | CONDUIT                | 4C                                                                |         |         |         |                        | \$ 0.00    |
| 49                           |                        |                                                                   |         |         |         |                        |            |
| 50                           |                        |                                                                   |         |         |         |                        |            |
| 51                           | SPAN SUMMARY           | \$ 5.77                                                           | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00                |            |
| 52                           | AVG. WTD. SPAN SUMMARY | \$ 5.77                                                           | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00                |            |
| 53                           |                        |                                                                   |         |         |         |                        |            |
| 54                           | NOTE:                  | [sum(INV <sub>ACCT</sub> <sup>BAND</sup> * MIX <sup>BAND</sup> )] |         |         |         |                        | \$ 5.77    |
| 55                           |                        |                                                                   |         |         |         |                        |            |

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C:\123R2\LCATCALC.DIST  
DIST\_PLNT - REPORT 148  
Sheet 1 of 1

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

**Belcore<sup>®</sup>**

LCAT

Release: 1.0.4

STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 09:07

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

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

| PLANT ITEM              | PLANT ACCT CODE | BAND MIX AVG. LGTH. | ALL |
|-------------------------|-----------------|---------------------|-----|
| <b>SHARED RESOURCES</b> |                 |                     |     |
| 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              |                     |     |

|                         |      |      |  |
|-------------------------|------|------|--|
| <b>DIRECT RESOURCES</b> |      |      |  |
| 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   |      |  |

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RUN - SUB PRI

LAST UPDATE

28-Jan-97

08:50

## LOOP COST ANALYSIS TOOL

Bellcore<sup>®</sup>

LCAT

Release: 1.0.4

Issued: 7/31/95

## FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 0 - 18000 FEET INTRAST

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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Printed 28-Jan-97 RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL. RATES PLAN

| CA123R24 LCATCALC/CUTECH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | LOOP COST ANALYSIS TOOL                                 |                                           |                                                               |                                      |                                          |                               | Bellcore <sup>®</sup>                     |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|--------------------------------------|------------------------------------------|-------------------------------|-------------------------------------------|----------------------------------------------------|
| SUB_PR1 - 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 3 - BUSINESS PBX                    |                                           |                                                               |                                      |                                          |                               | RUN DATE: 28-Jan-97                       |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                                         |                                           |                                                               |                                      |                                          |                               | TIME: 09:08                               |                                                    |
| SEGMENT LENGTH IN FEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TYPE OF CABLE PLANT | FROM TABLE 2<br>RELATIVE MIX OF TYPE OF CA PLANT<br>[B] | LENGTH SUBSET BY TYPE OF PLANT<br>[C=A*B] | FROM TABLE 4<br>MLD CABLE DESIGN INVEST. PER PAIR FOOT<br>[D] | CABLE INVESTMENT PER PAIR<br>[E=C*D] | WEIGHTED TERMINAL INVESTMENT<br>[UI*DTC] | AIR DRYER INVESTMENT PER PAIR | DROP WIRE ADJUSTMENT PER PAIR<br>[E*fcfr] | WEIGHTED DROP WIRE ADJUSTMENT PER PAIR<br>[UI*DTC] |
| 4513                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AERIAL              | 0.810000                                                | 3655.53                                   | 0.011300                                                      | 41.31                                |                                          | 0.00                          | 0.00                                      |                                                    |
| MELDED GAUGE/S/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BURIED              | 0.040000                                                | 180.52                                    | 0.018900                                                      | 3.41                                 |                                          | 0.00                          | 0.00                                      |                                                    |
| COPPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                         |                                           |                                                               |                                      |                                          |                               |                                           |                                                    |
| CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNDERGRND           | 0.150000                                                | 676.95                                    | 0.012000                                                      | 8.12                                 |                                          | 0.00                          | 0.00                                      |                                                    |
| CHECK =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | 1.000000                                                |                                           |                                                               |                                      |                                          |                               |                                           |                                                    |
| <p>23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS</p> <p>24 INVESTMENT PER CIRCUIT TERMINATION</p> <p>25 (CO CONN) CONNECTORS (col77c) = \$ 79.08</p> <p>26 inv / unit lctn: inv rtrn fcfr: 0.000000 0.253000</p> <p>27 POLE LINE FACTOR = \$ 17.42</p> <p>28 POLE LINE INVESTMENT =</p> <p>29 (UTIL AERIAL INVEST x PL)</p> <p>30</p> <p>31 UG CONDUIT FACTOR = 0.000000 0.516500</p> <p>32 CONDUIT INVESTMENT = \$ 6.99</p> <p>33 (UTIL UNDGRND INVEST x UG)</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47 FOOTNOTES</p> <p>48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.</p> <p>49 NOTE 2: E * fcfr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)</p> <p>50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.</p> <p>51 NOTE 4: MATRIX 2 &amp; 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> |                     |                                                         |                                           |                                                               |                                      |                                          |                               |                                           |                                                    |
| <p>MISC. COMMON EQPT. &amp; POWER FACTOR = 0.112700</p> <p>MCE&amp;P INVESTMENT (CO CONN x FACTOR) = \$ 8.91</p> <p>LAND FACTOR = 0.00560</p> <p>LAND NVST (CO CONN + MCE&amp;P) x FACTOR = \$ 8.49</p> <p>BUILDING FACTOR = \$ 2.3750</p> <p>BLDG NVST (CO CONN + MCE&amp;P) x FACTOR = \$ 1.63</p> <p>PERCENT OF CO CONN AT DIGITAL SWITCHES 100.0000</p> <p>PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                                         |                                           |                                                               |                                      |                                          |                               |                                           |                                                    |

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SUB PRI - WORKSHEET

Sheet 2 of 3

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

## LOOP COST ANALYSIS TOOL

## ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: TWELVED GAUGE/S/ SUB-PRIMARY

SERVICE CLASS: BAND 3 - BUSINESS PBX

Bellicore<sup>®</sup>

LCAT Release: 1.0.4

Issue Date: 7/31/95

STUDY YR: 1995

TEST CASE: 1

RUN DATE: 28-Jan-97

TIME: 09:08

| PLANT ITEM             | PLANT ACCT CODE | FIXED VARI CAT. | RESOURCE ALLOCATION T | 1995 UNIT INVESTMENT BY ACCOUNT | CIRCUIT QUANTITY [G] | 1995 UNIT LOOP INVESTMENT EXCL. UTILIZATION |                            | ADMIN. UTIL. LINE FILL [J] | 1995 UNIT LOOP INVESTMENT INCL. UTILIZATION |                            |
|------------------------|-----------------|-----------------|-----------------------|---------------------------------|----------------------|---------------------------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
|                        |                 |                 |                       | COST EQUATION [F]               |                      | SHARED RESOURCES [H=F*G]                    | DIRECT RESOURCES [H'=F'*G] |                            | SHARED RESOURCES [K=H/J]                    | DIRECT RESOURCES [K'=H'/J] |
| LAND                   | 20C             | F               | SHARED                | 0.49                            | 1                    | \$ 0                                        |                            | 1.0000                     | \$ 0                                        |                            |
| BUILDING               | 10C             | F               | SHARED                | 11.58                           | 1                    | \$ 12                                       |                            | 1.0000                     | \$ 12                                       |                            |
| BLDG ENTRANCE CABLE    | 12C             | V               | DIRECT                |                                 |                      |                                             |                            | 1.0000                     |                                             |                            |
| INTRABLDG CABLE        | 52C             | V               | DIRECT                |                                 |                      |                                             |                            | 0.3500                     |                                             |                            |
| AERIAL CABLE (COPPER)  | 22C             | V               | DIRECT                | 41.31                           | 1                    |                                             | \$ 41                      | 0.6000                     |                                             | \$ 60                      |
| BURIED CABLE (COPPER)  | 45C             | V               | DIRECT                | 3.41                            | 1                    |                                             | \$ 3                       | 0.6000                     |                                             | \$ 6                       |
| UNDERGROUND (CU) CA.   | 5C              | V               | DIRECT                | 8.12                            | 1                    |                                             | \$ 8                       | 0.6000                     |                                             | \$ 14                      |
| 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                | 79.08                           | 1                    |                                             | \$ 79                      | 1.0000                     |                                             | \$ 79                      |
| 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                | 8.91                            | 1                    | \$ 9                                        |                            | 1.0000                     |                                             |                            |
| POLE LINE              | 1C              | F               | DIRECT                | 17.42                           | 1                    |                                             | \$ 17                      | 1.0000                     |                                             | \$ 17                      |
| CONDUIT                | 4C              | F               | DIRECT                | 6.99                            | 1                    |                                             | \$ 7                       | 1.0000                     |                                             | \$ 7                       |

TOTALS

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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&amp;E.

CA123R24LCATCALCOUTECH  
SUB PRI - WORKSHEET  
Sheet 1 of 3

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

# **LOOP COST ANALYSIS TOOL** PROSPECTIVE AND ANNUAL COSTS WORKSHEET CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB - PRIMARY

SERVICE CLASS: BAND 3 - BUSINESS PBX

**Bellcore (R)**  
LCAT Release: 1.0.4  
Issue Date: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 25-Jan-97  
TIME: 09:06

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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                                  |                            | 0.2322                 | \$ 0.11                           |                            | \$ 0.01                                      |                             |
| BUILDING               | 10C             | 1.0000               | \$ 12                                 |                            | 0.2937                 | \$ 3.40                           |                            | \$ 0.28                                      |                             |
| BLDG ENTRANCE CABLE    | 12C             | 1.0000               |                                       |                            | 0.3922                 |                                   |                            |                                              |                             |
| INTRABLDG CABLE        | 52C             | 1.0000               |                                       |                            | 0.3922                 |                                   |                            |                                              |                             |
| AERIAL CABLE (COPPER)  | 22C             | 1.0000               |                                       | \$ 69                      | 0.4033                 |                                   | \$ 27.77                   |                                              | \$ 2.31                     |
| BURIED CABLE (COPPER)  | 45C             | 1.0000               |                                       | \$ 6                       | 0.3467                 |                                   | \$ 1.97                    |                                              | \$ 0.16                     |
| UNDERGROUND (CU) CA.   | 5C              | 1.0000               |                                       | \$ 14                      | 0.3663                 |                                   | \$ 4.96                    |                                              | \$ 0.41                     |
| CO EQPT - LOW CAP TERM | 257C            | 1.0000               |                                       |                            | 0.3681                 |                                   |                            |                                              |                             |
| CO EQPT - LOW CAP CHAN | 257C            | 1.0000               |                                       |                            | 0.3681                 |                                   |                            |                                              |                             |
| CO EQPT - HI CAP TERM  | 857C            | 1.0000               |                                       |                            | 0.3681                 |                                   |                            |                                              |                             |
| CO EQPT - HI CAP CHAN  | 857C            | 1.0000               |                                       |                            | 0.3681                 |                                   |                            |                                              |                             |
| CO EQPT - ANALOG SW    | 77C             | 1.0000               |                                       |                            | 0.0000                 |                                   |                            |                                              |                             |
| CO EQPT - DIGITAL SW   | 377C            | 1.0000               |                                       | \$ 79                      | 0.3458                 |                                   | \$ 27.35                   |                                              | \$ 2.28                     |
| 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               |                                       |                            | 0.3681                 |                                   |                            |                                              |                             |
| MISC. COM EQP & PWR    | 57C             | 1.0000               | \$ 9                                  |                            | 0.3681                 | \$ 3.46                           |                            | \$ 0.29                                      |                             |
| POLE LINE              | 1C              | 1.0000               |                                       | \$ 17                      | 0.3807                 |                                   | \$ 6.63                    |                                              | \$ 0.55                     |
| CONDUIT                | 4C              | 1.0000               |                                       | \$ 7                       | 0.2521                 |                                   | \$ 1.76                    |                                              | \$ 0.15                     |
| SUBTOTALS              |                 |                      | \$ 21                                 | \$ 192                     |                        | \$ 6.97                           | \$ 70.46                   | \$ 0.58                                      | \$ 5.86                     |
| TOTALS                 |                 |                      |                                       | \$ 213                     |                        | \$ 77.41                          |                            | \$ 6.44                                      |                             |
|                        |                 |                      |                                       | culpinvsv                  |                        |                                   | culpa                      |                                              | culpmrc                     |

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## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

|                                                                         |  |                                             |  |  |  |                      |  |
|-------------------------------------------------------------------------|--|---------------------------------------------|--|--|--|----------------------|--|
| CA:123R24\LCAT\CALC\CUTECH                                              |  | LOOP COST ANALYSIS TOOL                     |  |  |  | Bellcore®            |  |
| SUB_PRI - REPORT 14                                                     |  | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY    |  |  |  | LCAT Release : 1.0.4 |  |
| Sheet 1 of 1                                                            |  |                                             |  |  |  | Issue Date : 7/31/95 |  |
| COMPANY: CINCINNATI BELL TEL                                            |  | FACILITY SEGMENT : SUB-PRIMARY PLANT        |  |  |  | STUDY YR: 1996       |  |
| CITY / AREA: CINCINNATI                                                 |  |                                             |  |  |  | TEST CASE: 1         |  |
| STATE / PROV: OHIO                                                      |  | SERVICE CLASS: BAND 3 - BUSINESS PBX        |  |  |  | RUN DATE : 28-Jan-97 |  |
|                                                                         |  |                                             |  |  |  | TIME : 09:08         |  |
|                                                                         |  | 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT |  |  |  | (SEE NOTE)           |  |
|                                                                         |  | logic - 14a                                 |  |  |  | TOTAL                |  |
|                                                                         |  | BAND                                        |  |  |  | AVG. WEIGHTED        |  |
|                                                                         |  | 0                                           |  |  |  |                      |  |
|                                                                         |  | 1.0000                                      |  |  |  |                      |  |
|                                                                         |  |                                             |  |  |  |                      |  |
| PLANT ITEM                                                              |  | ACCT MIX                                    |  |  |  |                      |  |
|                                                                         |  | CODE LGTH                                   |  |  |  |                      |  |
|                                                                         |  | SEG. LGTH.                                  |  |  |  |                      |  |
|                                                                         |  | 5608                                        |  |  |  |                      |  |
|                                                                         |  | 4513                                        |  |  |  |                      |  |
| SHARED RESOURCES                                                        |  |                                             |  |  |  | 4513                 |  |
| LAND                                                                    |  | 20C                                         |  |  |  | \$ 0.01              |  |
| BUILDING                                                                |  | 10C                                         |  |  |  | \$ 0.28              |  |
| 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                                         |  |  |  | \$ 0.29              |  |
| POLE LINE                                                               |  | 1C                                          |  |  |  | \$ 0.00              |  |
| CONDUIT                                                                 |  | 4C                                          |  |  |  | \$ 0.00              |  |
| DIRECT RESOURCES                                                        |  |                                             |  |  |  |                      |  |
| LAND                                                                    |  | 20C                                         |  |  |  | \$ 0.00              |  |
| BUILDING                                                                |  | 10C                                         |  |  |  | \$ 0.00              |  |
| BLDG ENTRANCE CABLE                                                     |  | 12C                                         |  |  |  | \$ 0.00              |  |
| INTRABLDG CABLE                                                         |  | 52C                                         |  |  |  | \$ 0.00              |  |
| AERIAL CABLE (COPPER)                                                   |  | 22C                                         |  |  |  | \$ 2.31              |  |
| BURIED CABLE (COPPER)                                                   |  | 45C                                         |  |  |  | \$ 0.16              |  |
| UNDERGROUND (CU) CA.                                                    |  | 5C                                          |  |  |  | \$ 0.41              |  |
| 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                                        |  |  |  | \$ 2.28              |  |
| 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                                          |  |  |  | \$ 0.55              |  |
| CONDUIT                                                                 |  | 4C                                          |  |  |  | \$ 0.15              |  |
| SPAN SUMMARY                                                            |  | \$ 6.44                                     |  |  |  | \$ 0.00              |  |
| AVG. WTD. SPAN SUMMARY                                                  |  | \$ 6.44                                     |  |  |  | \$ 0.00              |  |
| NOTE: [sum(INV <sub>ACCT</sub> <sup>BAND</sup> * MIX <sup>BAND</sup> )] |  |                                             |  |  |  |                      |  |

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CA123R24\LCATCALC\CUPRGN

RUN - CDLC PLANT

LAST UPDATE

28-Jan-97

08:51

## LOOP COST ANALYSIS TOOL

Bellcore<sup>(R)</sup>

LCAT

Release: 1.0.4

Issued: 8/31/95

## FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 0 - 18000 FEET INTRASTATE

CURRENT TEST PLAN: CURRENT JOB IDENT. CINCINNATI

|           |           |                      |
|-----------|-----------|----------------------|
| BASIS     | NETWORK   | TEST CASE            |
| FR / DS   | FLAT RATE | #BANDS 0             |
| SVC LEVEL | NARBAND   | #CKTS                |
| CST METH  | UN INCR   | IN LEVEL ANNUAL COST |

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**LOOP COST ANALYSIS TOOL**  
**BASIC INVESTMENT WORKSHEET**

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

FACILITY TYPE: COPPER DIG LOOP CXR  
 CIRCUIT DESIGN: T1C  
 SERVICE CLASS: BAND 3 - BUSINESS PRX

LCAT Release: 1.0.4  
 Issue Date: 8/31/95  
 STUDY YR: 1998  
 TEST CASE: 1  
 DATE: 28-Jan-97  
 TIME: 09:09 AM

5608 cur\_lgth  
 4513 cur\_sldr\_lgth

f = 0.125 pgrfactor

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

**OUTSIDE PLANT LOADINGS (NOTE 5):**

| ADJUST. / LOAD FACTORS TO AERIAL PFI | ADJUST. / LOAD FACTORS TO BURIED PFI | ADJUST. / LOAD FACTORS TO UGD PFI | DLC EQUIPMENT INVEST. (NOTE 2): | INT DLC EQUIP INVEST. (CU COMUX) = | INT DLC EQUIP INVEST. (CU RTMUX) = | UNIV DLC EQUIP INVEST. (CU COMUX) = | UNIV DLC EQUIP INVEST. (CU RTMUX) = | DLC EQUIP INVEST. (CU LINE) = |
|--------------------------------------|--------------------------------------|-----------------------------------|---------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| NA                                   | NA                                   | NA                                | TERM                            | \$ 0.00                            | \$ 51.57                           | \$ 12.14                            | \$ 51.57                            |                               |
| 0.0000                               | 0.0000                               | 0.0000                            | CHAN                            | \$ 0.00                            | \$ 85.28                           | \$ 87.51                            | \$ 85.28                            | \$ 0.00                       |

**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 INVST. (CU REMMUX x MCEP) = | MCE&P INVST. (CDLCMUX x MCEP) = | MCE&P INVST. (CO CONN x MCEP) = | LAND FACTOR FOR DLC (LANDI rem) = | LAND FACTOR FOR DLC (LANDI c.o.) = | LAND INVST. (CU COMUX + MCEP) x LANDI = | LAND INVST. ((CO CONN + MCEP) x LANDI) = | BUILDING FACTOR FOR DLC (BLDG rem) = | BUILDING FACTOR FOR DLC (BLDG c.o.) = | BLDG INVST. (CO CONN + MCEP) x BLDG = | BLDG INVST. ((CO CONN + MCEP) x BLDG) = |
|--------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------|---------------------------------|---------------------------------|-----------------------------------|------------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|
| \$ 0.00                                    | 0.1127                                          | 0.1127                                           | \$ 15.42                          | \$ 11.23                        | \$ 0.00                         | 0.0056                            | 0.0056                             | \$ 1.47                                 | \$ 0.00                                  | 0.1316                               | 0.1316                                | \$ 34.83                              | \$ 0.00                                 |

**OTHER INVESTMENT**

| CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgrvst | POLE LINE FACTOR (PLF) = | POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = | UGD CONDUIT FACTOR (UCF) = | CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCF) = |
|----------------------------------------------------|--------------------------|----------------------------------------------------|----------------------------|------------------------------------------------|
| \$ 4.17                                            | 0.0000                   | \$ 0.00                                            | 0.0000                     | \$ 0.00                                        |

**LOOP TOPOLOGY:**

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

**FOOTNOTES**

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

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

NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.

NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.

NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.

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| LOOP COST ANALYSIS TOOL                                       |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | Bellcore                   |  |
|---------------------------------------------------------------|-----------------|-----------------|---------------------|-----------------------------------|----------------------|--------------------------------------------|---------------------------|----------------------------|--------------------------------------------|----------------------------|--|
| ACCOUNT INVESTMENT WORKSHEET                                  |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | LCAT Release : 1.0.4       |  |
| CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | Issue Date : 8/31/95       |  |
| FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY           |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | STUDY YR : 1996            |  |
| FACILITY TYPE : COPPER DIG LOOP CRR                           |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | TEST CASE : 1              |  |
| CIRCUIT DESIGN : 11C                                          |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | DATE : 26-Jan-97           |  |
| SERVICE CLASS : BAND 3 - BUSINESS PRX                         |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            | TIME : 09:09 AM            |  |
| PLANT ITEM                                                    | PLANT ACCT CODE | FIXED VARI SUNK | RESOURCE ALLOCATION | 1996 UNIT INVESTMENT'S BY ACCOUNT | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION |                           | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL UTILIZATION |                            |  |
|                                                               |                 |                 |                     | COST EQUATION [F]                 |                      | SHARED RESOURCES [H=F*G]                   | DIRECT RESOURCES [H'=F*G] |                            | SHARED RESOURCES [K=H/J]                   | DIRECT RESOURCES [K'=H'/J] |  |
| LAND                                                          | 20C             | F               | SHARED              | 1.47                              | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| BUILDING                                                      | 10C             | F               | SHARED              | 34.76                             | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| BLDG ENTRANCE CABLE                                           | 12C             | ---             | ---                 |                                   | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| INTRABLDG CABLE                                               | 52C             | ---             | ---                 |                                   | 0                    |                                            |                           | 0.3500                     |                                            |                            |  |
| AERIAL CABLE (COPPER)                                         | 22C             | V               | DIRECT              | 0.00                              | 0                    |                                            |                           | 0.8000                     |                                            |                            |  |
| BURIED CABLE (COPPER)                                         | 45C             | V               | DIRECT              | 0.00                              | 0                    |                                            |                           | 0.8000                     |                                            |                            |  |
| UNDERGROUND (CU) CA.                                          | 5C              | V               | DIRECT              | 4.17                              | 0                    |                                            |                           | 0.8000                     |                                            |                            |  |
| CO EQPT - P GAIN TERM                                         | 257C            | F               | DIRECT              | 79.13                             | 0                    |                                            |                           | 0.7000                     |                                            |                            |  |
| CO EQPT - P GAIN CHAN                                         | 257C            | V               | DIRECT              | 172.79                            | 0                    |                                            |                           | 0.7000                     |                                            |                            |  |
| CO EQPT - FO MUX TERM                                         | 857C            | F               | DIRECT              |                                   | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| CO EQPT - FO MUX CHAN                                         | 857C            | F               | DIRECT              |                                   | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| CO EQPT - ESS - ANALOG                                        | 77C             | V               | DIRECT              | 0.00                              | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| CO EQPT - ESS - DIGITAL                                       | 377C            | V               | DIRECT              | 0.00                              | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| AERIAL CABLE (FIBER)                                          | 822C            | F               | DIRECT              |                                   | 0                    |                                            |                           | 0.3300                     |                                            |                            |  |
| BURIED CABLE (FIBER)                                          | 845C            | F               | DIRECT              |                                   | 0                    |                                            |                           | 0.3300                     |                                            |                            |  |
| UNDERGROUND (FO) CA.                                          | 85C             | F               | DIRECT              |                                   | 0                    |                                            |                           | 0.3300                     |                                            |                            |  |
| CONNECTORS                                                    | 57C             | V               | DIRECT              |                                   | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| MISC. COM EQP & PWR                                           | 57C             | V               | SHARED              | 11.23                             | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| POLE LINE                                                     | 1C              | F               | DIRECT              | 0.00                              | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| CONDUIT                                                       | 4C              | F               | DIRECT              | 0.00                              | 0                    |                                            |                           | 1.0000                     |                                            |                            |  |
| TOTALS                                                        |                 |                 |                     |                                   |                      |                                            |                           |                            |                                            |                            |  |

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

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C:\123R24\LCATCALC\CURR3N  
CDLC\_PLANT - WORKSHEET :  
Sheet 3 of 3

# LOOP COST ANALYSIS TOOL

Bellicore (P)

PROSPECTIVE AND ANNUAL COSTS WORKSHEET  
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET  
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY  
FACILITY TYPE : COPPER DIG LOOP CXR  
CIRCUIT DESIGN : 1 C  
SERVICE CLASS : BAND 3 - BUSINESS PBX

LCAT Release : 1.0.4  
Issue Date : 8/31/95  
STUDY YR : 1996  
TEST CASE :  
DATE : 28-Jan-97  
TIME : 09:09 AM

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

| PLANT ITEM              | 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                     | DIRECT RESOURCES |                        | SHARED RESOURCES                  | DIRECT RESOURCES | SHARED RESOURCES                             | DIRECT RESOURCES |
|                         |           |                      | [M=K*L]                              | [M'=K'*L]        |                        | [P=M*N]                           | [P'=M'*N]        | [R=P/12]                                     | [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               |                                      |                  | 0.3681                 |                                   |                  |                                              |                  |
| CO EQPT - P GAIN CHAN   | 257C      | 1.0000               |                                      |                  | 0.3681                 |                                   |                  |                                              |                  |
| CO EQPT - FO MUX TERM   | 857C      | 1.0000               |                                      |                  | 0.3681                 |                                   |                  |                                              |                  |
| CO EQPT - FO MUX CHAN   | 857C      | 1.0000               |                                      |                  | 0.3681                 |                                   |                  |                                              |                  |
| CO EQPT - ESS - ANALOG  | 77C       | 1.0000               |                                      |                  | 0.0000                 |                                   |                  |                                              |                  |
| CO EQPT - ESS - DIGITAL | 377C      | 1.0000               |                                      |                  | 0.3458                 |                                   |                  |                                              |                  |
| AERIAL CABLE (FIBER)    | 822C      | 1.0000               |                                      |                  | 0.2983                 |                                   |                  |                                              |                  |
| BURIED CABLE (FIBER)    | 845C      | 1.0000               |                                      |                  | 0.2724                 |                                   |                  |                                              |                  |
| UNDERGROUND (FO) CA.    | 85C       | 1.0000               |                                      |                  | 0.2689                 |                                   |                  |                                              |                  |
| CONNECTORS              | 57C       | 1.0000               |                                      |                  | 0.3681                 |                                   |                  |                                              |                  |
| MISC. COM EQP & PWR     | 57C       | 1.0000               |                                      |                  | 0.3681                 |                                   |                  |                                              |                  |
| POLE LINE               | 1C        | 1.0000               |                                      |                  | 0.3807                 |                                   |                  |                                              |                  |
| CONDUIT                 | 4C        | 1.0000               |                                      |                  | 0.2521                 |                                   |                  |                                              |                  |
| TOTALS                  |           |                      | \$ 0                                 | \$ 0             |                        | \$ 0.00                           | \$ 0.00          | \$ 0.00                                      | \$ 0.00          |
|                         |           |                      |                                      | \$ 01            |                        |                                   | \$ 0.00          |                                              | \$ 0.00          |
|                         |           |                      |                                      | FEED1SY          |                        |                                   |                  |                                              |                  |

## 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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Bellcore (R)

RUN - FO MUX

LAST UPDATE

28-Jan-97

08:52

## LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 0 - 18000 FEET INTRASTATE

CURRENT TEST PLAN :

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

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A  
B  
C  
D  
E  
F  
GC:\123R24\LCAT\LCAT\WORKSHEET 3  
FO\_MUX - WORKSHEET 3  
Sheet 1 of 3COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

## LOOP COST ANALYSIS TOOL

## BASIC INVESTMENT WORKSHEET

FOR PRIMARY FEEDER PLANT  
FACILITY TYPE: FIBER IN THE LOOP  
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.  
SERVICE CLASS: BAND 3 - BUSIN SERVICE LEVEL: NARBANDLCAT Ref: 1.0.4  
ISSUE DATE: 7/31/95  
STUDY YR: 1995  
TEST CASE: 1  
LAST RUN: 28-Jan-97  
TIME: 09:10

| from sldr_tbl: |                   | from bw_mix: |           | EFFECTIVE |             | CABLE COMPONENTS |            | (NOTE 4)   | (NOTE 5)   |
|----------------|-------------------|--------------|-----------|-----------|-------------|------------------|------------|------------|------------|
| SEGMENT        | LENGTH            | TYPE OF      | RELATIVE  | LENGTH    | MIX CABLE   | WEIGHTED         | WEIGHTED   | AIR DRYER  | DROP WIRE  |
| IN FEET        |                   | CABLE        | MIX OF    | SUBSET    | DESIGN      | EFFECTIVE LGTH   | TERMINAL   | INVESTMENT | ADJUSTMENT |
|                |                   | PLANT        | TYPE OF   | BY TYPE   | INVEST. PER | CABLE            | INVESTMENT | PER PAIR   | PER PAIR   |
|                |                   |              | CA. PLANT | OF PLANT  | PAIR FOOT   |                  |            |            |            |
|                |                   |              | [B]       | [C=A*B/A] | [D]         | [E=C*D]          | [U=DTC]    | [E*factr]  | [E*factr]  |
|                |                   |              |           |           |             |                  |            |            |            |
| CO TO HUB LINK | 4513 cur_sldrngth | AERIAL       | 0.810000  | 0.00      | 0.193000    | 0.00             |            | 0.00       |            |
| ON             | 0 cur_pnngth      | BURIED       | 0.000000  | 0.00      | 0.000000    | 0.00             |            | 0.00       |            |
| FIBER OPTIC    |                   | UNDERGRND    | 0.190000  | 0.00      | 0.222900    | 0.00             |            | 0.00       |            |
| FACILITIES     |                   |              | 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) =

UNIV DLC EQUIP INVEST. (CU COMUX) =

UNIV DLC EQUIP INVEST. (CU RTMUX) =

FIBER MUX EQUIP. INV. (FO COMUX) =

FIBER MUX EQUIP. INV. (FO RTMUX) =

## OTHER INVESTMENT

POLE LINE FACTOR (PLF) =

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

UNDERGROUND CONDUIT FACTOR (PLF) =

CONDUIT INVESTMENT (UTIL UNDERGRND INVEST x UCF) =

## 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 UNIVERSAL DLC INTFC

MIX OF CENT. OFC. INTEGRATED DLC INTFC

## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED

OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.

NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B: FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.

NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.

NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT

ON THE BUILDING CABLE &amp; TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E

## EQUIPMENT INVESTMENT LOADINGS

INVEST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00

MISC. COM. EQPT. &amp; POWER FACTOR (DLCrem) = 0.1127

MISC. COM. EQPT. &amp; POWER FACTOR (MUXrem) = 0.1127

MISC. COM. EQPT. &amp; POWER FACTOR (OTHrem) = 0.1127

MISC. COM. EQPT. &amp; POWER FACTOR (MUXc.o.) = 0.1127

MISC. COM. EQPT. &amp; POWER FACTOR (DLCc.o.) = 0.1127

MISC. COM. EQPT. &amp; POWER FACTOR (OTHc.o.) = 0.1127

MCE&amp;P INVEST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 13.71

MCE&amp;P INVEST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77

MCE&amp;P INVEST. (CA CONN x MCEPfc.o.) = \$ 0.00

MCE&amp;P INVEST. (CA CONN x MCEPfc.o.) = \$ 0.00

LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056

LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056

LAND FACTOR FOR OTH (LANDfrem) = 0.0056

LAND FACTOR FOR DLC EQP (LANDfc.o.) = 0.0056

LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0056

LAND FACTOR FOR OTH (LANDfc.o.) = 0.0056

LAND INVEST. (DLC+MUX+MCEP) x LANDfc.o. = \$ 0.76

LAND INVEST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98

BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316

BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316

BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316

BUILDING FACTOR FOR DLC EQP (BLDGfc.o.) = 0.1316

BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316

BUILDING FACTOR FOR OTH (BLDGfc.o.) = 0.1316

BLDG INVEST. (DLC+MUX+MCEP) x BLDGfc.o. = \$ 17.81

BLDG INVEST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09

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FO\_MUX - WORKSHEET 3  
Sheet 2 of 3COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

## LOOP COST ANALYSIS TOOL

## ACCOUNT INVESTMENT WORKSHEET

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

Bellcore

LCAT Rel: 1.0.4  
ISSUE DATE: 7/31/95  
STUDY YR: 1995  
TEST CASE: 1  
LAST RUN: 28-Jan-97  
TIME: 09:10

| PLANT ITEM             | PLANT ACCT CODE | FIXED VARI SUNK | RESOURCE ALLOCATION | 1995 UNIT INVESTMENTS BY ACCOUNT | CIRCUIT QUANTITY | 1995 UNIT LOOP INVESTMENT EXCL UTILIZATION |                  | ADMIN. UTIL LINE FILL | 1995 UNIT LOOP INVESTMENT INCL UTILIZATION |                  |
|------------------------|-----------------|-----------------|---------------------|----------------------------------|------------------|--------------------------------------------|------------------|-----------------------|--------------------------------------------|------------------|
|                        |                 |                 |                     | COST EQUATION                    |                  | SHARED RESOURCES                           | DIRECT RESOURCES |                       | SHARED RESOURCES                           | DIRECT RESOURCES |
|                        |                 |                 |                     |                                  |                  | [H=F*G]                                    | [H'=F*G]         | utilstart             | [K=H/J]                                    | [K'=H'/J]        |
| LAND                   | 20C             | F               | SHARED              | 1.74                             | 0                |                                            |                  | 1.0000                |                                            |                  |
| BUILDING               | 10C             | F               | SHARED              | 40.90                            | 0                |                                            |                  | 1.0000                |                                            |                  |
| BLDG ENTRANCE CABLE    | 12C             | ---             | ---                 |                                  |                  |                                            |                  | 1.0000                |                                            |                  |
| INTRABLDG CABLE        | 52C             | ---             | ---                 |                                  |                  |                                            |                  | 0.3500                |                                            |                  |
| AERIAL CABLE (COPPER)  | 22C             | V               | DIRECT              |                                  |                  |                                            |                  | 0.6000                |                                            |                  |
| BURIED CABLE (COPPER)  | 45C             | V               | DIRECT              |                                  |                  |                                            |                  | 0.6000                |                                            |                  |
| UNDERGROUND (CU) CA.   | 5C              | V               | DIRECT              |                                  |                  |                                            |                  | 0.6000                |                                            |                  |
| CO EQPT - LOW CAP TERM | 257C            | F               | DIRECT              | 63.71                            | 0                |                                            |                  | 0.7000                |                                            |                  |
| CO EQPT - LOW CAP CHAN | 257C            | V               | DIRECT              | 172.79                           | 0                |                                            |                  | 0.7000                |                                            |                  |
| CO EQPT - HI CAP TERM  | 857C            | F               | DIRECT              | 22.47                            | 0                |                                            |                  | 1.0000                |                                            |                  |
| CO EQPT - HI CAP CHAN  | 857C            | F               | DIRECT              | 38.11                            | 0                |                                            |                  | 1.0000                |                                            |                  |
| CO EQPT - ANALOG SW    | 77C             | V               | DIRECT              | 0.00                             | 0                |                                            |                  | 1.0000                |                                            |                  |
| CO EQPT - DIGITAL SW   | 377C            | V               | DIRECT              | 0.00                             | 0                |                                            |                  | 1.0000                |                                            |                  |
| AERIAL CABLE (FIBER)   | 822C            | F               | DIRECT              | 0.00                             | 0                |                                            |                  | 0.3300                |                                            |                  |
| BURIED CABLE (FIBER)   | 845C            | F               | DIRECT              | 0.00                             | 0                |                                            |                  | 0.3300                |                                            |                  |
| UNDERGROUND (FO) CA.   | 85C             | F               | DIRECT              | 0.00                             | 0                |                                            |                  | 0.3300                |                                            |                  |
| CONNECTORS             | 57C             | V               | DIRECT              | 0.00                             | 0                |                                            |                  | 1.0000                |                                            |                  |
| MISC. COM EQP & PWR    | 57C             | V               | SHARED              | 13.71                            | 0                |                                            |                  | 1.0000                |                                            |                  |
| POLE LINE              | 1C              | F               | DIRECT              | 0.00                             | 0                |                                            |                  | 1.0000                |                                            |                  |
| CONDUIT                | 4C              | F               | DIRECT              | 0.00                             | 0                |                                            |                  | 1.0000                |                                            |                  |

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## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&amp;P INV.

NOTE 3: ESS CO EQPT = C.O. CONN + MCE&amp;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 <sup>®</sup> |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------------------|-----------------------------|-----------------------------|------------------|------------------|-----------------------------|-----------------------------|-----------------------|--|
| 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: 31 FOMUX TO HUB / REM.                                                                                                                                                                               |                 |                  |                             |                             |                             |                  |                  |                             |                             | TEST CASE: 1          |  |
| SERVICE CLASS: BAND 3 - BU: SERVICE LEVEL: NARBAND                                                                                                                                                                   |                 |                  |                             |                             |                             |                  |                  |                             |                             | LAST RUN: 28-Jan-97   |  |
|                                                                                                                                                                                                                      |                 |                  |                             |                             |                             |                  |                  |                             |                             | TIME: 09:10           |  |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                        |                 |                  |                             |                             |                             |                  |                  |                             |                             |                       |  |
| 1996 UNIT LOOP INVESTMENT BY ACCOUNT<br>1996 UNIT ANNUAL COSTS BY ACCOUNT<br>1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT                                                                                            |                 |                  |                             |                             |                             |                  |                  |                             |                             |                       |  |
| PLANT ITEM                                                                                                                                                                                                           | PLANT ACCT CODE | 1996 TO 1996 TPI | SHARED RESOURCES fo3sixaset | DIRECT RESOURCES fo3dixaset | ANNUAL COST FACTOR acfstart | SHARED RESOURCES | DIRECT RESOURCES | SHARED RESOURCES fo3sixaset | DIRECT RESOURCES fo3dixaset |                       |  |
| [PREVIOUS SHEET SUMMARY .....]                                                                                                                                                                                       |                 |                  |                             |                             |                             |                  |                  |                             |                             |                       |  |
| LAND                                                                                                                                                                                                                 | 20C             | 1.0000           |                             |                             | 0.2322                      |                  |                  |                             |                             |                       |  |
| BUILDING                                                                                                                                                                                                             | 10C             | 1.0000           |                             |                             | 0.2937                      |                  |                  |                             |                             |                       |  |
| BLDG ENTRANCE CABLE                                                                                                                                                                                                  | 12C             | 1.0000           |                             |                             | 0.3922                      |                  |                  |                             |                             |                       |  |
| INTRABLDG CABLE                                                                                                                                                                                                      | 52C             | 1.0000           |                             |                             | 0.3922                      |                  |                  |                             |                             |                       |  |
| AERIAL CABLE (COPPER)                                                                                                                                                                                                | 22C             | 1.0000           |                             |                             | 0.4033                      |                  |                  |                             |                             |                       |  |
| BURIED CABLE (COPPER)                                                                                                                                                                                                | 45C             | 1.0000           |                             |                             | 0.3467                      |                  |                  |                             |                             |                       |  |
| UNDERGROUND (CU) CA.                                                                                                                                                                                                 | 5C              | 1.0000           |                             |                             | 0.3663                      |                  |                  |                             |                             |                       |  |
| CO EQPT - LOW CAP TERM                                                                                                                                                                                               | 257C            | 1.0000           |                             |                             | 0.3881                      |                  |                  |                             |                             |                       |  |
| CO EQPT - LOW CAP CHAN                                                                                                                                                                                               | 257C            | 1.0000           |                             |                             | 0.3881                      |                  |                  |                             |                             |                       |  |
| CO EQPT - HI CAP TERM                                                                                                                                                                                                | 857C            | 1.0000           |                             |                             | 0.3881                      |                  |                  |                             |                             |                       |  |
| CO EQPT - HI CAP CHAN                                                                                                                                                                                                | 857C            | 1.0000           |                             |                             | 0.3881                      |                  |                  |                             |                             |                       |  |
| CO EQPT - ANALOG SW                                                                                                                                                                                                  | 77C             | 1.0000           |                             |                             | 0.0000                      |                  |                  |                             |                             |                       |  |
| CO EQPT - DIGITAL SW                                                                                                                                                                                                 | 377C            | 1.0000           |                             |                             | 0.3458                      |                  |                  |                             |                             |                       |  |
| AERIAL CABLE (FIBER)                                                                                                                                                                                                 | 822C            | 1.0000           |                             |                             | 0.2983                      |                  |                  |                             |                             |                       |  |
| BURIED CABLE (FIBER)                                                                                                                                                                                                 | 845C            | 1.0000           |                             |                             | 0.2724                      |                  |                  |                             |                             |                       |  |
| UNDERGROUND (FO) CA.                                                                                                                                                                                                 | 85C             | 1.0000           |                             |                             | 0.2689                      |                  |                  |                             |                             |                       |  |
| CONNECTORS                                                                                                                                                                                                           | 57C             | 1.0000           |                             |                             | 0.3881                      |                  |                  |                             |                             |                       |  |
| MISC. COM EQP & PWR                                                                                                                                                                                                  | 57C             | 1.0000           |                             |                             | 0.3881                      |                  |                  |                             |                             |                       |  |
| POLE LINE                                                                                                                                                                                                            | 1C              | 1.0000           |                             |                             | 0.3807                      |                  |                  |                             |                             |                       |  |
| CONDUIT                                                                                                                                                                                                              | 4C              | 1.0000           |                             |                             | 0.2521                      |                  |                  |                             |                             |                       |  |
| TOTALS                                                                                                                                                                                                               |                 |                  | \$ 0                        | \$ 0                        |                             | \$ 0.00          | \$ 0.00          | \$ 0.00                     | \$ 0.00                     |                       |  |
|                                                                                                                                                                                                                      |                 |                  |                             | \$ 0                        |                             |                  | \$ 0.00          |                             | \$ 0.00                     |                       |  |
|                                                                                                                                                                                                                      |                 |                  |                             | feed3sy                     |                             |                  | feed3mrc         |                             | feed3mrc                    |                       |  |
| FOOTNOTES<br>NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.<br>NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.<br>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: 1995  
TEST CASE: 1  
LAST UPDATE: 28-Oct-95  
TIME: 13:34

| PLANT ITEM              | LCAT CODE | WHEN BANDWIDTH DELIVERY IS |             |                     |          |             |                     |        |
|-------------------------|-----------|----------------------------|-------------|---------------------|----------|-------------|---------------------|--------|
|                         |           | NARROWBAND                 |             | WIDEBAND            |          | BROADBAND   |                     |        |
|                         |           | CATEGORY                   | SENS. INDEX | RESOURCE ASSIGNMENT | 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) 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 RATES (NON-MULTIPLEXED) FEEDER & DISTRIBUTION  
 BY DEFINITION: ITEMS LABELED F (fixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY  
 ITEMS LABELED F (fixed) ARE EXCLUDED FROM ADDITIONAL INCREMENTAL STUDIES  
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.



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TABLE - COST\_METH  
Sheet 1 of 2

HELP SCREEN

**Belcore** (TM)  
LCAT Rel : 1.0.4  
Issued : 07/31/95

| <u>Field / Group Title</u> | <u>Valid Inputs</u>    | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                             |
|----------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)                 | The system matrix for DISTRIBUTION cost methodology for -<br>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 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>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 -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component.                                                                                   |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT         | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment.<br>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<sup>®</sup>TABLE - COST\_METH  
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE  
FEEDER SEGMENTCOMPANY: CINCINNATI BELL TEL.  
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4  
Issued: 07/31/95  
STUDY YR: 1996  
TEST CASE: 1  
LAST UPDATE: 28-Oct-96  
TIME: 13:34

| PLANT ITEM              | PLANT CODE | WHEN BANDWIDTH DELIVERY IS |             |          |             |           |             |
|-------------------------|------------|----------------------------|-------------|----------|-------------|-----------|-------------|
|                         |            | NARROWBAND                 |             | WIDEBAND |             | BROADBAND |             |
|                         |            | CATEGORY                   | SENS. INDEX | CATEGORY | SENS. INDEX | CATEGORY  | SENS. INDEX |
| 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(~~ixed~~) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY.  
 ITEMS LABELED F(~~ixed~~) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES.  
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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HELP SCREEN**Belcore** (R)

TABLE - COST\_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

| <u>Field / Group Title</u> | <u>Valid Inputs</u> | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)              | The system matrix for FEEDER cost methodology for -<br>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 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>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 -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component.                                                                                   |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT      | The Assigned Category of Circuit Function.<br>DIRECT for Dedicated or Circuit Specific Investment.<br>SHARED - for Multi-Circuit or Non-Specific Investment.                                                                                                                                                                        |

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

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| C:\123R24\LCAT\0311CR\A |  | LOOP COST ANALYSIS TOOL                                        |  | Bellcore (R)                                |  |
|-------------------------|--|----------------------------------------------------------------|--|---------------------------------------------|--|
| INPUT - STUDY SETUP     |  | GENERAL STUDY REQUIREMENTS                                     |  | TODAY IS: 28-Jan-97                         |  |
| LCAT Rel.: 1.0.4        |  |                                                                |  | LAST UPDATE:                                |  |
| Issue Date: 3/31/95     |  |                                                                |  | 28-Oct-96 01:35 PM                          |  |
| STUDY NAME              |  | 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 0 - 18000 FEET INTRASTATE |  |                                             |  |
| COMMENTS                |  |                                                                |  |                                             |  |
| SERVICE CLASS           |  | BAND 3 - BUSINESS PBX                                          |  | STUDY BASIS                                 |  |
| COMPANY                 |  | CINCINNATI BELL TEL.                                           |  | <input checked="" type="checkbox"/> NETWORK |  |
| STATE / PROVINCE        |  | OHIO                                                           |  | <input type="checkbox"/> INDIVIDUAL         |  |
| CITY / AREA             |  | CINCINNATI                                                     |  | INVESTMENT YEAR                             |  |
| DENSITY CELL MIX        |  | 0 100 0 0                                                      |  | 1996                                        |  |
| DIGITAL LOOP CARRIER    |  | FACILITIES INCLUDED IN THE STUDY:                              |  | LOOP CHAR. STUDY YEAR                       |  |
|                         |  | Type Percent Mix:                                              |  | 1996                                        |  |
|                         |  | 100 FIBER IN THE LOOP                                          |  | STUDY YEAR                                  |  |
|                         |  | 0 COPPER DIG LOOP CXR                                          |  | 1996                                        |  |
|                         |  |                                                                |  | TEST CASE                                   |  |
|                         |  |                                                                |  | 1                                           |  |

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| CA\123R24\LCATR031\CRITERIA                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HELP SCREEN | Belcore®        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| INPUT - STUDY SETUP                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | LCAT Rel. 1.0.4 |
| Sheet 1 of 2                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | ISSUED: 3/31/95 |
| THIS DISPLAY                                                                                                                                                                                            | This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.                                                                                                                                                                                                                                                                                                              |             |                 |
| STUDY NAME                                                                                                                                                                                              | Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.                                                                                                                                                                                                                                                                                                                                                                                                |             |                 |
| COMMENTS                                                                                                                                                                                                | Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, <Del>, <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA. |             |                 |
| STUDY BASIS                                                                                                                                                                                             | Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                 |
| FACILITY TYPE                                                                                                                                                                                           | Select by entering the <u>percent of technology mix</u> , the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.                                                                                                                                                                                                                                                                                                                                                                 |             |                 |
| CELL DENSITY                                                                                                                                                                                            | Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.                                                                                                                                                                                                                                                                                 |             |                 |
| <p>***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****</p> <p>***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****</p> <p>PRESS &lt; Enter &gt; KEY TO RETURN TO THE MAIN MENU</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                 |

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| CA123R24\LCATR031\CRITERIA                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                               |  | Bellcore <sup>(R)</sup>                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|
| <b>INPUT - STUDY SETUP</b><br>SHEET 2 / 2<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>GENERAL STUDY REQUIREMENTS</b><br><b>STUDY QUESTIONS</b><br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |  | LCAT Rel. 1.0.4<br>ISSUED: 3/31/95<br>STUDY YEAR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 01:35 PM |
| <b>SELECTED QUESTIONS</b>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                              |  |                                                                                                                    |
| <b>CONCERNING --</b>                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                              |  |                                                                                                                    |
| <b>SERVICE SPEC.</b>                                                                                                            | 1. Is this Study for a NEW Installation or an ADDITION ? .....<br>2. Is this Study for a SWITCHED or PRIVATE LINE Service ? .....<br>3. Is this Study for Narrow, Wide, or Broadband Services .....<br>4. Is this Study for 2 Wire or 4 Wire Transmission ? .....                                                                                                                                                                                                                                                                     |                                                                                                                                                              |  |                                                                                                                    |
| <b>OFFICE CHAR.</b>                                                                                                             | 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? .....<br>6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? .....<br>7. What Percent of Loop Carrier Cross--connects are Electronic DCS's? .....<br>8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? .....                                                                                                                                                                                                                    |                                                                                                                                                              |  |                                                                                                                    |
| <b>RESULTS SPEC.</b>                                                                                                            | 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? .....<br>9a. If Distance Sensitive, what band increment do you want ? .....<br>10. How many Cost Bands in this study ? .....<br>11. Should this Study result in Investment, Cost, or All values ? .....<br>12. Is this study for Total Incremental or Marginal Costs ? .....<br>13. How many circuits (loops) in this Study ? .....<br>14. The study classification is ..... (e.g.: RATES PLAN, TEST DATA, NEW SERVICE)<br>Required for the "Footer" of each Report page. |                                                                                                                                                              |  |                                                                                                                    |

| VALID RESPONSE     |            |
|--------------------|------------|
| SET                |            |
| N or A             | NEW        |
| S or P             | SWITCHED   |
| N, W or B          | NARBAND    |
| 2 or 4             | 2          |
| 0 → 100            | 100        |
| 0 → 100            | 0          |
| 0 → 100            | 18000 Feet |
| e.g., 12000        |            |
| FLAT RATE          |            |
| DISTANCE SENSITIVE |            |
| COST BAND          |            |
| TOT INCR           |            |
| RATES PLAN         |            |

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INPUT - STUDY SETUP

LCAT Rel. 1.0.4

ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied.
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,  
Using **6.** for 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 for All values
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Cost 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 provides a "TOTAL" cost.

PRESS &lt; Enter &gt; KEY TO RETURN TO THE MAIN MENU

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|                                                                                                                             |  |                                                                                                                                                 |  |                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|
| C:\123R24\LCATR031\DESIGN                                                                                                   |  | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                  |  | <b>Belcore</b>                                                                                                       |
| INPUT - LOOP DESIGN<br>Sheet 1 / 1<br><br>COMPANY : CINCINNATI BELL TEL.<br>CITY / AREA : CINCINNATI<br>STATE / PROV : OHIO |  | CIRCUIT DESIGN REQUIREMENTS<br>CHARACTERISTICS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |  | LCAT Rel : 1.0.4<br>Issued : 07/31/95<br>STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE : 28-Oct-96<br>TIME : 13:37 |

**CIRCUIT DESIGN**

Study Parameters

Study Basis: NETWORK STUDY

Service Level: NARBAND

Loop Topology: STAR

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

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

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

Proportion of links on CDLC / MAR 0.0000

**FOR SERVICE ACCESS NETWORK**  
 (REMOTE TERMINAL TO CUSTOMER LINK)

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

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

**FOR FIBER DLC DESIGNS:**

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

**FOR COPPER DLC DESIGNS:**

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

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



CA\123R24\LCATR031\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 to BROADBAND service levels to those which currently support DSL down at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

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|----------------------------------------------------------------|--------|-----------------------------------------|---------------------------------|------------------------------------|
| TABLE - SPAN_INV<br>SHEET 1 / 4                                |        | LOOP FACILITY INPUT<br>FIBER CABLE DATA |                                 | LCAT Rel: 1.0.4                    |
| COMPANY: CINCINNATI BELL TEL.                                  |        | FOR                                     |                                 | Issued: 07/31/95                   |
| CITY / AREA: CINCINNATI                                        |        | INVESTMENT YEAR: 1996                   |                                 | STUDY YR: 1996                     |
| STATE / PROV: OHIO                                             |        | LOOP STUDY YEAR: 1996                   |                                 | TEST CASE: 1                       |
|                                                                |        | SERVICE CLASS: BAND 3 - BUSINESS PBX    |                                 | LAST UPDATE: 28-Oct-96             |
|                                                                |        |                                         |                                 | TIME: 13:39                        |
| <b>FIBER CABLE INVESTMENT AND CHARACTERISTICS</b>              |        |                                         |                                 |                                    |
|                                                                |        | FOR<br>FEEDER<br>SEGMENTS               | FOR<br>DISTRIBUTION<br>SEGMENTS |                                    |
| <b>CABLE TYPE MIX (DISTRIBUTION TO CODE) :</b>                 |        |                                         |                                 |                                    |
| Proportion of FIBER cable installations that are ....          |        |                                         |                                 |                                    |
|                                                                | AERIAL | 0.8100                                  | 0.0000                          | factors                            |
|                                                                | BURIED | 0.0000                                  | 0.0000                          | factors                            |
|                                                                | UNDGRD | 0.1900                                  | 0.0000                          | factors                            |
| <br><b>INVESTMENT PER CABLE PAIR FOOT</b>                      |        |                                         |                                 |                                    |
| <b>BY CABLE TYPE :</b>                                         |        |                                         |                                 |                                    |
| Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) |        | N                                       | [Required with INDIVIDUAL Mode] |                                    |
| If not, Update Unit Averages as Follows :                      |        |                                         |                                 |                                    |
| <b>PRIMARY SEGMENT</b>                                         |        |                                         |                                 |                                    |
| Average Unit Investment for FIBER cable,                       |        |                                         |                                 |                                    |
| Installed as ....                                              |        |                                         |                                 |                                    |
|                                                                | AERIAL | \$ 0.1930                               |                                 | per fiber pair Foot                |
|                                                                | BURIED | \$ 0.0000                               |                                 | per fiber pair Foot                |
|                                                                | UNDGRD | \$ 0.2229                               |                                 | per fiber pair Foot                |
| (Fiber Hub to Remote Terminal)                                 |        |                                         |                                 |                                    |
| <b>FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT</b>     |        |                                         |                                 |                                    |
| Average Unit Investment for FIBER cable,                       |        |                                         |                                 |                                    |
| Installed as ....                                              |        |                                         |                                 |                                    |
|                                                                | AERIAL | \$ 0.1930                               | \$ 0.0000                       | per fiber pair Foot                |
|                                                                | BURIED | \$ 0.0000                               | \$ 0.0000                       | per fiber pair Foot                |
|                                                                | UNDGRD | \$ 0.2229                               | \$ 0.0000                       | per fiber pair Foot                |
|                                                                |        |                                         |                                 | (Remote Terminal to Service Point) |

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|-------------------------------|--|-------------------------------------------|--|------------------------|--|
| TABLE - SPAN INV              |  | LOOP FACILITY INPUT                       |  | LCAT Ver: 1.0.4        |  |
| SHEET 1A / 4                  |  | FIBER CABLE DATA - BY CABLE SHEATH DETAIL |  | Issued: 07/31/95       |  |
| COMPANY: CINCINNATI BELL TEL. |  | FOR                                       |  | STUDY YR: 1996         |  |
| CITY / AREA: CINCINNATI       |  | INVESTMENT YEAR: 1996                     |  | TEST CASE: 1           |  |
| STATE/PROV: OHIO              |  | LOOP STUDY YEAR: 1996                     |  | LAST UPDATE: 28-Oct-96 |  |
|                               |  | SERVICE CLASS: BAND 3 - BUSINESS PBX      |  | TIME: 13:39            |  |

## FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

| Cable Sheath Sizes |             |        | Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size |        |             |
|--------------------|-------------|--------|-------------------------------------------------------------------|--------|-------------|
| CAPACITY           |             |        | AERIAL                                                            | BURIED | UNDERGROUND |
| INDEX              |             |        |                                                                   |        |             |
| 4                  | Fiber Cable | 2 pr   | \$                                                                |        | \$          |
| 6                  | Fiber Cable | 3 pr   | \$                                                                |        | \$          |
| 12                 | Fiber Cable | 6 pr   | \$                                                                |        | \$          |
| 18                 | Fiber Cable | 9 pr   | \$                                                                |        | \$          |
| 24                 | Fiber Cable | 12 pr  | \$                                                                |        | \$          |
| 36                 | Fiber Cable | 18 pr  | \$                                                                |        | \$          |
| 48                 | Fiber Cable | 24 pr  | \$                                                                |        | \$          |
| 60                 | Fiber Cable | 30 pr  | \$                                                                |        | \$          |
| 72                 | Fiber Cable | 36 pr  | \$                                                                |        | \$          |
| 84                 | Fiber Cable | 42 pr  | \$                                                                |        | \$          |
| 96                 | Fiber Cable | 48 pr  | \$                                                                |        | \$          |
| 144                | Fiber Cable | 72 pr  | \$                                                                |        | \$          |
| 192                | Fiber Cable | 96 pr  | \$                                                                |        | \$          |
| 216                | Fiber Cable | 108 pr | \$                                                                |        | \$          |

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TABLE - SPAN\_INV  
SHEET 1 / 4

HELP SCREEN

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Issued: 07/31/95

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

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|-----------------------------------------------------|--|-------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| TABLE - SPAN INV<br>SHEET 2 / 4                     |  | LOOP FACILITY INPUT<br>COPPER CABLE DATA<br>FOR |                                 | LCAT Rel: 1.0.4<br>Issued: 07/31/95                                           |                                                                                                                              |                                                                               |
| COMPANY: CINCINNATI BELL TEL.                       |  | INVESTMENT YEAR: 1996                           |                                 | STUDY YR: 1996                                                                |                                                                                                                              |                                                                               |
| CITY / AREA: CINCINNATI                             |  | LOOP STUDY YEAR: 1996                           |                                 | TEST CASE: 1                                                                  |                                                                                                                              |                                                                               |
| STATE/PROV: OHIO                                    |  | SERVICE CLASS: BAND 3 - BUSINESS PBX            |                                 | LAST UPDATE: 28-Oct-95<br>TIME: 13:39                                         |                                                                                                                              |                                                                               |
| <b>COPPER CABLE CHARACTERISTICS AND INVESTMENTS</b> |  |                                                 |                                 |                                                                               |                                                                                                                              |                                                                               |
| <b>Cable Gauge Mix:</b>                             |  | <b>FEEDER<br/>SEGMENT</b>                       | <b>DISTRIBUTION<br/>SEGMENT</b> | <b>Unit Investment per Cable Pair Foot<br/>By Cable Type, By Cable Gauge:</b> |                                                                                                                              |                                                                               |
| The Proportion of<br>Copper Cable that is ....      |  | <b>26 GA.</b>                                   | <b>0.1500</b>                   | <b>0.1500</b>                                                                 | Update Cable Sheath Prices [Required with INDIVIDUAL Model]<br>on the FULL SET Input SHEET? (Y/N) <input type="checkbox"/> N |                                                                               |
|                                                     |  | <b>24 GA.</b>                                   | <b>0.8500</b>                   | <b>0.8500</b>                                                                 | If not, Update                                                                                                               |                                                                               |
|                                                     |  | <b>22 GA.</b>                                   | <b>0.0000</b>                   | <b>0.0000</b>                                                                 |                                                                                                                              |                                                                               |
| <b>Cable Type Mix, By Gauge:</b>                    |  |                                                 |                                 |                                                                               | <b>GUAGE</b>                                                                                                                 | <b>FEEDER<br/>SEGMENT</b>                                                     |
| The Proportion of<br>Copper Cable that is ....      |  |                                                 |                                 |                                                                               |                                                                                                                              | <b>DISTRIBUTION<br/>SEGMENT</b>                                               |
|                                                     |  | <b>26 GA.</b>                                   | <b>AERIAL</b>                   | <b>0.8100</b>                                                                 | <b>0.5800</b>                                                                                                                | <b>Average Unit<br/>Investment for<br/>Copper Cable<br/>Installed as ....</b> |
|                                                     |  |                                                 | <b>BURIED</b>                   | <b>0.0400</b>                                                                 | <b>0.4200</b>                                                                                                                | <b>26 GA.</b>                                                                 |
|                                                     |  |                                                 | <b>UNDGRND</b>                  | <b>0.1500</b>                                                                 | <b>0.0000</b>                                                                                                                | <b>BURIED</b>                                                                 |
|                                                     |  | <b>24 GA.</b>                                   | <b>AERIAL</b>                   | <b>0.8100</b>                                                                 | <b>0.5800</b>                                                                                                                | <b>UNDGRND</b>                                                                |
|                                                     |  |                                                 | <b>BURIED</b>                   | <b>0.0400</b>                                                                 | <b>0.4200</b>                                                                                                                | <b>24 GA.</b>                                                                 |
|                                                     |  |                                                 | <b>UNDGRND</b>                  | <b>0.1500</b>                                                                 | <b>0.0000</b>                                                                                                                | <b>BURIED</b>                                                                 |
|                                                     |  | <b>22 GA.</b>                                   | <b>AERIAL</b>                   | <b>0.0000</b>                                                                 | <b>0.0000</b>                                                                                                                | <b>UNDGRND</b>                                                                |
|                                                     |  |                                                 | <b>BURIED</b>                   | <b>0.0000</b>                                                                 | <b>0.0000</b>                                                                                                                | <b>22 GA.</b>                                                                 |
|                                                     |  |                                                 | <b>UNDGRND</b>                  | <b>0.0000</b>                                                                 | <b>0.0000</b>                                                                                                                | <b>BURIED</b>                                                                 |
|                                                     |  |                                                 |                                 |                                                                               |                                                                                                                              | <b>UNDGRND</b>                                                                |

NOTE: If the DROP WIRE resource Investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input worksheet.

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| CA123R24\LCATR031\FACILITY                                                        |              | LOOP COST ANALYSIS TOOL                    |        |        |        | Belcore                |        |        |        |        |        |
|-----------------------------------------------------------------------------------|--------------|--------------------------------------------|--------|--------|--------|------------------------|--------|--------|--------|--------|--------|
| TABLE - SFAN INV<br>SHEET 2A / 4                                                  |              | COPPER CABLE DATA - BY CABLE SHEATH DETAIL |        |        |        | LCAT Ver: 1.0.4        |        |        |        |        |        |
| COMPANY: CINCINNATI BELL TEL.                                                     |              | INVESTMENT YEAR: 1996                      |        |        |        | Issued: 07/31/95       |        |        |        |        |        |
| CITY / AREA: CINCINNATI                                                           |              | LOOP STUDY YEAR: 1996                      |        |        |        | STUDY YR: 1996         |        |        |        |        |        |
| STATE/PROV: OHIO                                                                  |              | SERVICE CLASS: BAND 3 - BUSINESS PBX       |        |        |        | TEST CASE: 1           |        |        |        |        |        |
|                                                                                   |              |                                            |        |        |        | LAST UPDATE: 28-Oct-96 |        |        |        |        |        |
|                                                                                   |              |                                            |        |        |        | TIME: 13:39            |        |        |        |        |        |
| COPPER CABLE INVESTMENT REFERENCE TABLE                                           |              |                                            |        |        |        |                        |        |        |        |        |        |
| Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size |              |                                            |        |        |        |                        |        |        |        |        |        |
| Cable Sheath Sizes                                                                | Capacity     | Gauge: =>                                  | 26 GA. |        |        | 24 GA.                 |        |        | 22 GA. |        |        |
|                                                                                   |              | INDEX                                      | AERIAL | BURIED | UNDGRD | AERIAL                 | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD |
| 40                                                                                | Copper Cable | 20 pr                                      | \$     |        |        |                        |        |        |        |        |        |
| 50                                                                                | Copper Cable | 25 pr                                      | \$     |        |        |                        |        |        |        |        |        |
| 80                                                                                | Copper Cable | 40 pr                                      | \$     |        |        |                        |        |        |        |        |        |
| 100                                                                               | Copper Cable | 50 pr                                      | \$     |        |        |                        |        |        |        |        |        |
| 140                                                                               | Copper Cable | 70 pr                                      | \$     |        |        |                        |        |        |        |        |        |
| 200                                                                               | Copper Cable | 100 pr                                     | \$     |        |        |                        |        |        |        |        |        |
| 400                                                                               | Copper Cable | 200 pr                                     | \$     |        |        |                        |        |        |        |        |        |
| 600                                                                               | Copper Cable | 300 pr                                     | \$     |        |        |                        |        |        |        |        |        |
| 800                                                                               | Copper Cable | 400 pr                                     | \$     |        |        |                        |        |        |        |        |        |
| 1200                                                                              | Copper Cable | 600 pr                                     | \$     |        |        |                        |        |        |        |        |        |
| 1800                                                                              | Copper Cable | 900 pr                                     | \$     |        |        |                        |        |        |        |        |        |
| 2400                                                                              | Copper Cable | 1200 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 3000                                                                              | Copper Cable | 1500 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 3600                                                                              | Copper Cable | 1800 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 4200                                                                              | Copper Cable | 2100 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 4800                                                                              | Copper Cable | 2400 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 5400                                                                              | Copper Cable | 2700 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 6000                                                                              | Copper Cable | 3000 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 7200                                                                              | Copper Cable | 3600 pr                                    | \$     |        |        |                        |        |        |        |        |        |
| 8400                                                                              | Copper Cable | 4200 pr                                    | \$     |        |        |                        |        |        |        |        |        |

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C:\123R24\LCATR031\FACILITY  
TABLE - SPAN\_INV  
SHEET 2 / 4

HELP SCREEN

**Bellcore**<sup>TM</sup>  
LCAT Rel: 1.0.4  
Issued: 07/31/95

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LCAT

INPUT SCREEN

Page -1-

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LCAT

INPUT SCREEN

Page -2-

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LCAT

INPUT SCREEN

Page -4-

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| CA123R24\LCATR031\FACILITY.WK1      |  | <b>LOOP COST ANALYSIS TOOL</b>                           |  |  |  | Bellcore <sup>®</sup>                   |
|-------------------------------------|--|----------------------------------------------------------|--|--|--|-----------------------------------------|
| SPAN INV - WORKSHEET<br>Sheet 2 / 3 |  | COPPER CABLE DISTRIBUTIONS MELDING<br>WORKSHEET A<br>FOR |  |  |  | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95 |
| COMPANY: CINCINNATI BELL TEL.       |  | FACILITY TYPE: COPPER CABLE                              |  |  |  | STUDY YR: 1996                          |
| CITY / AREA: CINCINNATI             |  | DESIGN TYPE: SUBFEEDER SEGMENT                           |  |  |  | TEST CASE: 1996                         |
| STATE/PROV: OHIO                    |  | SERVICE CLASS: BAND 3 - BUSINESS PSX                     |  |  |  | DATE: 1                                 |
|                                     |  |                                                          |  |  |  | LAST UPDATE: 28-Oct-95                  |
|                                     |  |                                                          |  |  |  | TIME: 13:39                             |

| DATA DESC.                  | (DISTRIBUTION TO CODE)<br>CABLE TYPE MIX<br>(p...tdr) | PER FOOT INVESTMENT<br>(pfi...td) | CABLE GAUGE MIX<br>(copper...tdr) | ADJUSTED CABLE TYPE | ADJUSTED PFI        |
|-----------------------------|-------------------------------------------------------|-----------------------------------|-----------------------------------|---------------------|---------------------|
| <b>CHARACTERISTICS FOR:</b> |                                                       |                                   |                                   |                     |                     |
| AERIAL @ 26 GA.             | [A] 0.810000                                          | [B] \$ 0.011300                   | [C] 0.1500                        | [D=A*C] 0.121500    | [E=B*C] \$ 0.001695 |
| BURIED @ 26 GA.             | 0.040000                                              | \$ 0.018900                       | 0.1500                            | 0.006000            | \$ 0.002835         |
| UNDGRND @ 26 GA.            | 0.150000                                              | \$ 0.012000                       | 0.1500                            | 0.022500            | \$ 0.001800         |
| AERIAL @ 24 GA.             | 0.810000                                              | \$ 0.011300                       | 0.8500                            | 0.688500            | \$ 0.009605         |
| BURIED @ 24 GA.             | 0.040000                                              | \$ 0.018900                       | 0.8500                            | 0.034000            | \$ 0.016085         |
| UNDGRND @ 24 GA.            | 0.150000                                              | \$ 0.012000                       | 0.8500                            | 0.127500            | \$ 0.010200         |
| AERIAL @ 22 GA.             | 0.000000                                              | \$ 0.000000                       | 0.0000                            | 0.000000            | \$ 0.000000         |
| BURIED @ 22 GA.             | 0.000000                                              | \$ 0.000000                       | 0.0000                            | 0.000000            | \$ 0.000000         |
| UNDGRND @ 22 GA.            | 0.000000                                              | \$ 0.000000                       | 0.0000                            | 0.000000            | \$ 0.000000         |

--- TABLE 2 ---

| DATA DESC.                  | CABLE TYPE MIX<br>RANGE NAME | WELDED GAUGES |
|-----------------------------|------------------------------|---------------|
| <b>CHARACTERISTICS FOR:</b> |                              |               |
| AERIAL                      | [F=sum(Dtype)]               | 0.810000      |
| BURIED                      |                              | 0.040000      |
| UNDERGRND                   |                              | 0.150000      |
| Check =                     |                              | 1.000000      |

--- TABLE 4 ---

| PAIR / FOOT INVESTMENT<br>RANGE NAME | WELDED GAUGES |
|--------------------------------------|---------------|
| <b>[G=sum(Etype)]</b>                |               |
| \$ 0.011300                          |               |
| \$ 0.018900                          |               |
| \$ 0.012000                          |               |
| Check =                              |               |

Check = 1.00

--- TABLE 6 ---

| PAIR / FOOT INVESTMENT<br>RENORMALIZED<br>AERIAL BURIED | WELDED GAUGES |
|---------------------------------------------------------|---------------|
| <b>[H=Ftype / sum(Ftype)]</b>                           |               |
| \$ 0.952941                                             |               |
| \$ 0.047059                                             |               |
| Check = 1.000000                                        |               |

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FOOTNOTES

| C:\123P24\LCATR031\FACILITY                                                                                                                                                                                                                                                                                                                                                                                           |                                                                       | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                         |  | Bellcore (R)                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|
| TABLE - SPAN_INV<br>SHEET 3 / 4<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE/PROV: OHIO                                                                                                                                                                                                                                                                                                   |                                                                       | LOOP FACILITY INPUT<br>COPPER PAIR GAIN CABLE DATA<br>FOR<br>INVESTMENT YEAR : 1996<br>LOOP STUDY YEAR : 1996<br>SERVICE CLASS : BAND 3 - BUSINESS PBX |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 13:39 |
| <b>COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                                                                                                                                                        |  |                                                                                                                |
| <b>FOR DLC SYSTEMS ON COPPER LOOPS</b>                                                                                                                                                                                                                                                                                                                                                                                |                                                                       |                                                                                                                                                        |  |                                                                                                                |
| Cable Gauge :                                                                                                                                                                                                                                                                                                                                                                                                         | Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :               |                                                                                                                                                        |  | 24                                                                                                             |
| Pair Gain Factor :                                                                                                                                                                                                                                                                                                                                                                                                    | (When Investment Utilities or Band Width Mix are NOT Used)            |                                                                                                                                                        |  |                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | The Average Number Of Voice Grade Circuit Equivalents Per System :    |                                                                                                                                                        |  | 96                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | The Average Number Of Transmission Pairs Plus Protection Per System : |                                                                                                                                                        |  | 10                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :  |                                                                                                                                                        |  | 2                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | Ratio Of Required Pairs To Derived Pairs [ Pair Gain Factor ] :       |                                                                                                                                                        |  | 0.125                                                                                                          |
| <b>NOTE:</b><br>① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$ . When applied to segment length it becomes the Effective Length per Pair. |                                                                       |                                                                                                                                                        |  |                                                                                                                |

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TABLE - SPAN INV  
SHEET 3 / 4

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

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|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| SPAN INV - WORKSHEET<br>Sheet 3 / 3                                                              |                                                                        | COPPER CABLE DISTRIBUTIONS WELDING<br>WORKSHEET B                         |                                                                             | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95                                                                 |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: OHIO<br>STATE / PROV: CINCINNATI                   |                                                                        | FOR<br>FACILITY TYPE: COPPER CABLE for DLC<br>DESIGN TYPE: FEEDER SEGMENT |                                                                             | STUDY YR: 1996<br>TEST CASE: 1996<br>DATE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 13:39                   |
|                                                                                                  |                                                                        | SERVICE CLASS: BAND 3 - BUSINESS FBX                                      |                                                                             |                                                                                                         |
| INVESTMENT DEVELOPMENT FOR:                                                                      |                                                                        | MELDED CABLE INVESTMENT PER PAIR FOOT<br>LINE REPEATER EQUIPMENT          |                                                                             |                                                                                                         |
| DESCRIPTION                                                                                      | REPEATER<br>SPACING                                                    | UNIT<br>REPEATER<br>INVESTMENT                                            | REPEATER<br>INVEST.<br>PER FOOT                                             |                                                                                                         |
|                                                                                                  | [A]                                                                    | [B]                                                                       | [C=B/A]                                                                     |                                                                                                         |
| LINE REPEATER AT 26 GA.                                                                          | 3500                                                                   | \$ 0                                                                      | \$ 0.000000                                                                 |                                                                                                         |
| LINE REPEATER AT 24 GA.                                                                          | 4500                                                                   | \$ 0                                                                      | \$ 0.000000                                                                 |                                                                                                         |
| LINE REPEATER AT 22 GA.                                                                          | 5500                                                                   | \$ 0                                                                      | \$ 0.000000                                                                 |                                                                                                         |
| TABLE 4 DEVELOPMENT FOR:                                                                         |                                                                        | COPPER CABLE UNIT INVESTMENT                                              |                                                                             |                                                                                                         |
| ADJUSTED<br>PAIR / FOOT INVESTMENT<br>DESCRIPTION                                                | PAIR / FOOT INVESTMENT<br>BY GAUGE<br>2 * (PFI <sub>avg</sub> )<br>[D] | REPEATER<br>BY GAUGE<br>(RPTR <sub>avg</sub> )<br>[E=C]                   | WORKING CHANNEL<br>INVESTMENT / FOOT<br>(ADLCPI <sub>avg</sub> )<br>[F=D+E] | FOR DLC Gauge: 24.00<br>- TABLE 4 -<br>WORKING CHANNEL<br>INVESTMENT / FOOT<br>(ADLCPI <sub>avg</sub> ) |
| AERIAL @ 26 GA.                                                                                  | \$ 0.022600                                                            | \$ 0.000000                                                               | \$ 0.022600                                                                 | \$ 0.022600                                                                                             |
| BURIED @ 26 GA.                                                                                  | \$ 0.037800                                                            | \$ 0.000000                                                               | \$ 0.037800                                                                 | \$ 0.037800                                                                                             |
| UNDGRND @ 26 GA.                                                                                 | \$ 0.024000                                                            | \$ 0.000000                                                               | \$ 0.024000                                                                 | \$ 0.024000                                                                                             |
| AERIAL @ 24 GA.                                                                                  | \$ 0.022600                                                            | \$ 0.000000                                                               | \$ 0.022600                                                                 | \$ 0.022600                                                                                             |
| BURIED @ 24 GA.                                                                                  | \$ 0.037800                                                            | \$ 0.000000                                                               | \$ 0.037800                                                                 | \$ 0.037800                                                                                             |
| UNDGRND @ 24 GA.                                                                                 | \$ 0.024000                                                            | \$ 0.000000                                                               | \$ 0.024000                                                                 | \$ 0.024000                                                                                             |
| AERIAL @ 22 GA.                                                                                  | \$ 0.000000                                                            | \$ 0.000000                                                               | \$ 0.000000                                                                 | \$ 0.000000                                                                                             |
| BURIED @ 22 GA.                                                                                  | \$ 0.000000                                                            | \$ 0.000000                                                               | \$ 0.000000                                                                 | \$ 0.000000                                                                                             |
| UNDGRND @ 22 GA.                                                                                 | \$ 0.000000                                                            | \$ 0.000000                                                               | \$ 0.000000                                                                 | \$ 0.000000                                                                                             |
| NOTES:<br>① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire. |                                                                        |                                                                           |                                                                             |                                                                                                         |

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ALCATR031\FACILITY  
SPAN\_INV  
4

HELP SCREEN

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

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

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

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

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| C:\123R24\LCATR031\FACTORS     |  | LOOP COST ANALYSIS TOOL                                          |  | Belcore                                 |
|--------------------------------|--|------------------------------------------------------------------|--|-----------------------------------------|
| TABLE - FACTORS<br>SHEET 1 / 1 |  | INVESTMENT RELATED FACTOR TABLES<br>FOR<br>ANNUALIZATION FACTORS |  | LCAT Rel : 1.0.4<br>Issued : 3/31/95    |
| COMPANY : CINCINNATI BELL TEL. |  | INVESTMENT YEAR : 1996                                           |  | STUDY YR : 1996                         |
| CITY / AREA : CINCINNATI       |  | STUDY YEAR : 1996                                                |  | TEST CASE : 1                           |
| STATE / PROV : OHIO            |  | SERVICE CLASS : BAND 3 - BUSINESS PBX                            |  | LAST UPDATE : 17-Jan-97<br>TIME : 15:22 |

| plant list             | PRICE<br>INDEX | ANNUAL<br>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         | 0.0458         |
| AERIAL CABLE (FIBER)   | 1.0000         | 0.2983         |
| BURIED CABLE (FIBER)   | 1.0000         | 0.2724         |
| UNDERGROUND (FO) CA.   | 1.0000         | 0.2689         |
| CONNECTORS             | 1.0000         | 0.3881         |
| MISC. COM EQP & PWR    | 1.0000         | 0.3881         |
| POLE LINE              | 1.0000         | 0.3807         |
| CONDUIT                | 1.0000         | 0.2521         |

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| C:\123R24\LCATR031\INVEST                                                                           |  | LOOP COST ANALYSIS TOOL                                      |          |          |                        | Bellcore <sup>®</sup>               |  |
|-----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|----------|----------|------------------------|-------------------------------------|--|
| TABLE - EQUIP_INV<br>Sheet 1 of 1                                                                   |  | DATA REFERENCE TABLE<br>EQUIPMENT & OTHER INVESTMENTS<br>FOR |          |          |                        | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |  |
| COMPANY: CINCINNATI BELL TEL                                                                        |  | INVESTMENT YEAR: 1996                                        |          |          |                        | STUDY YR: 1996                      |  |
| CITY / AREA: CINCINNATI                                                                             |  | SERVICE LEVEL: NARBAND                                       |          |          |                        | TEST CASE: 1                        |  |
| STATE / PROV: OHIO                                                                                  |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                         |          |          |                        | LAST UPDATE: 28-Oct-96<br>13:41     |  |
| <b>EQUIPMENT INVESTMENT</b> (Including Engineer, Furnish. & Install Costs)                          |  |                                                              |          |          |                        |                                     |  |
|                                                                                                     |  | <b>CENTRAL OFFICE</b>                                        |          |          | <b>REMOTE LOCATION</b> |                                     |  |
|                                                                                                     |  | LINE                                                         | CHANNEL  | TERMINAL | CHANNEL                | TERMINAL                            |  |
| <b>AIR DRYERS INVESTMENT:</b>                                                                       |  |                                                              |          |          |                        |                                     |  |
| For an AERIAL Installed Cable Pair                                                                  |  |                                                              |          | \$ 0.00  |                        |                                     |  |
| For a BURIED Installed Cable Pair                                                                   |  |                                                              |          | \$ 0.00  |                        |                                     |  |
| For an UNDERGROUND Installed Cable Pair                                                             |  |                                                              |          | \$ 0.00  |                        |                                     |  |
| <b>CENTRAL OFFICE TERMINATION INVESTMENT:</b>                                                       |  |                                                              |          |          |                        |                                     |  |
| For each cable pair associated with twisted pair copper cable                                       |  |                                                              |          | \$ 79.08 |                        |                                     |  |
| For each per cable pair associated with digital loop carrier technology                             |  |                                                              |          | \$ 0.00  |                        |                                     |  |
| <b>COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:</b>                                |  |                                                              |          |          |                        |                                     |  |
| For each line repeater for one copper digroup (not svc lev)                                         |  | \$ 0.00                                                      |          |          |                        |                                     |  |
| For an Office Repeater Bay for a T1 Line                                                            |  | \$ 0.00                                                      |          |          |                        |                                     |  |
| For a Universal DLC Equipment Arrangement                                                           |  | \$ 0.00                                                      | \$ 87.51 | \$ 12.14 | \$ 85.28               | \$ 51.57                            |  |
| For an Integrated DLC Equipment Arrangement                                                         |  | \$ 0.00                                                      | \$ 0.00  | \$ 0.00  | \$ 85.28               | \$ 51.57                            |  |
| <b>FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:</b>                           |  |                                                              |          |          |                        |                                     |  |
| 1. For a Hub with nonFiber Extensions or nonHub Arrangement                                         |  | \$ 19.62                                                     |          | \$ 2.35  | \$ 18.49               | \$ 2.35                             |  |
| 2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement                                     |  | \$ 0.00                                                      |          | \$ 0.00  | \$ 0.00                | \$ 0.00                             |  |
| 3. For a Fiber HUB and Fiber Remote Terminal Arrangement                                            |  |                                                              |          |          | \$ 0.00                | \$ 0.00                             |  |
| 4. For Fiber Ring Hub Arrangements (Extensions)                                                     |  |                                                              |          |          | \$ 0.00                | \$ 0.00                             |  |
| <b>CEV HOUSING per CIRCUIT by SERVICE LEVEL:</b>                                                    |  |                                                              |          |          |                        |                                     |  |
| For CEV's used as fiber hubs for FO Multiplexer equipment                                           |  |                                                              |          |          |                        | \$ 0.00                             |  |
| For CEV's used as remote terminals for CDLC equipment                                               |  |                                                              |          |          |                        | \$ 8.33                             |  |
| [Unit Investment denotes average weighted unit E,F,I Investment at DS0, DS1, or DS3 service level.] |  |                                                              |          |          |                        |                                     |  |

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TABLE - EQUIP\_INV

## HELP INFORMATION

Bellcore<sup>TM</sup>

LCAT Rel : 1.0.4  
Issued : 07/31/95

LCAT Commands      Description

This Command will allow the User -

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

Line Items              Description

This Equipment Item Represents -

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

See Circuit Designs :

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

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

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

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| C:\123R24\LCATR031\LOADING                                                                                      |        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                      |  | Belcore <sup>®</sup>                                                                                          |
|-----------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|
| TABLE - ADDNL_INV<br>Sheet 1 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |        | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |  | LCAT Rel: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 13:42 |
| <b>PLANT UTILIZATION FACTORS:</b>                                                                               |        |                                                                                                                                                                     |  |                                                                                                               |
| Land                                                                                                            | 1.0000 | ALL Non-Traffic Sensitive Equipment                                                                                                                                 |  | 1.0000                                                                                                        |
| Building                                                                                                        | 1.0000 | ALL Digital Loop Carrier Equip., or                                                                                                                                 |  | 0.7000                                                                                                        |
| ALL Copper Cables, or                                                                                           |        | CO DLC Channel Unit                                                                                                                                                 |  | 0.7000                                                                                                        |
| Copper Feeder Cable                                                                                             | 0.6000 | REM DLC Channel Unit                                                                                                                                                |  | 0.7000                                                                                                        |
| Copper Distribution Cable                                                                                       | 0.3500 | CO DLC Multiplex System                                                                                                                                             |  | 0.7000                                                                                                        |
| Copper Entrance Cable                                                                                           | 1.0000 | REM DLC Multiplex System                                                                                                                                            |  | 0.7000                                                                                                        |
| Copper Building Cable                                                                                           | 0.3500 | CO Digital Signal Crossconnect Bay                                                                                                                                  |  | 0.7000                                                                                                        |
| Copper Building Terminal                                                                                        | 0.3500 | REM Digital Signal Crossconnect Bay                                                                                                                                 |  | 0.7000                                                                                                        |
| ALL Fiber Cables, or                                                                                            |        | ALL Fiber Optic Multiplex Equip., or                                                                                                                                |  | 1.0000                                                                                                        |
| Fiber Feeder Cable                                                                                              | 0.3300 | CO Fiber Optic Channel Unit                                                                                                                                         |  | 1.0000                                                                                                        |
| Fiber Distribution Cable                                                                                        |        | REM Fiber Optic Channel Unit                                                                                                                                        |  | 1.0000                                                                                                        |
| Fiber Entrance Cable                                                                                            |        | CO Fiber Optic Multiplex System                                                                                                                                     |  | 1.0000                                                                                                        |
| Fiber Building Cable                                                                                            |        | REM Fiber Optic Multiplex System                                                                                                                                    |  | 1.0000                                                                                                        |
| Fiber Building Terminal                                                                                         |        | CO Lightguide Terminating Equipment                                                                                                                                 |  | 1.0000                                                                                                        |
|                                                                                                                 |        | REM Lightguide Terminating Equipment                                                                                                                                |  | 1.0000                                                                                                        |
| Poles                                                                                                           | 1.0000 | Remote Housing: CEV                                                                                                                                                 |  | 1.0000                                                                                                        |
| Conduit                                                                                                         | 1.0000 | CEV                                                                                                                                                                 |  | 1.0000                                                                                                        |
|                                                                                                                 |        | Common 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 : 3/31/95

## NOTE :

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

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

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| C:\123R24\LCATR031\LOADING                                                                                     |  | <b>LOOP COST ANALYSIS TOOL</b>                                                         |  | Bellcore <sup>®</sup>                                                                                         |
|----------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|
| TABLE - ADDNL_NY<br>Sheet 2 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |  | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR              |  | LCAT Ver: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 13:42 |
|                                                                                                                |  | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |  |                                                                                                               |

|                                        | SEGMENT | DISTRIBUTION       | FEEDER |  |
|----------------------------------------|---------|--------------------|--------|--|
| <b>POLE LOADINGS:</b>                  |         |                    |        |  |
|                                        | ②       | use <u>DEFAULT</u> |        |  |
| 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       |         |                    |        |  |
| <b>CONDUIT LOADINGS:</b>               |         |                    |        |  |
| Copper Cable Conduit Investment Factor |         | 0.5165             | 0.5165 |  |
| Copper Cable Conduit Unit Investment   |         |                    |        |  |
| Fiber Cable Conduit Investment Factor  |         | 0.5232             | 0.5232 |  |
| Fiber Cable Conduit Unit Investment    |         |                    |        |  |

**DROP WIRE (DW) INVESTMENT ADJUSTMENT:**

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

use DEFAULT    ①    ②

for: CENT. OFC.    REMOTE SITE

**LAND LOADING FACTORS:**

|                       |        |        |
|-----------------------|--------|--------|
| Other or <u>ALL</u> ① | 0.0056 | 0.0056 |
| Digital Loop Carrier  | 0.0056 | 0.0056 |
| Fiber Optic Mux       | 0.0056 | 0.0056 |

**BUILDING LOADING FACTORS:**

|                       |        |        |
|-----------------------|--------|--------|
| Other or <u>ALL</u> ① | 0.1316 | 0.1316 |
| Digital Loop Carrier  | 0.1316 | 0.1316 |
| Fiber Optic Mux       | 0.1316 | 0.1316 |

**MISC. EQUIPMENT & POWER LOADING FACTORS:**

|                       |        |        |
|-----------------------|--------|--------|
| Other or <u>ALL</u> ① | 0.1127 | 0.1127 |
| Digital Loop Carrier  | 0.1127 | 0.1127 |
| Fiber Optic Mux       | 0.1127 | 0.1127 |

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TABLE - ADDNL\_INV  
Sheet 2 of 2

## HELP SCREEN

Belcore<sup>(R)</sup>

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.

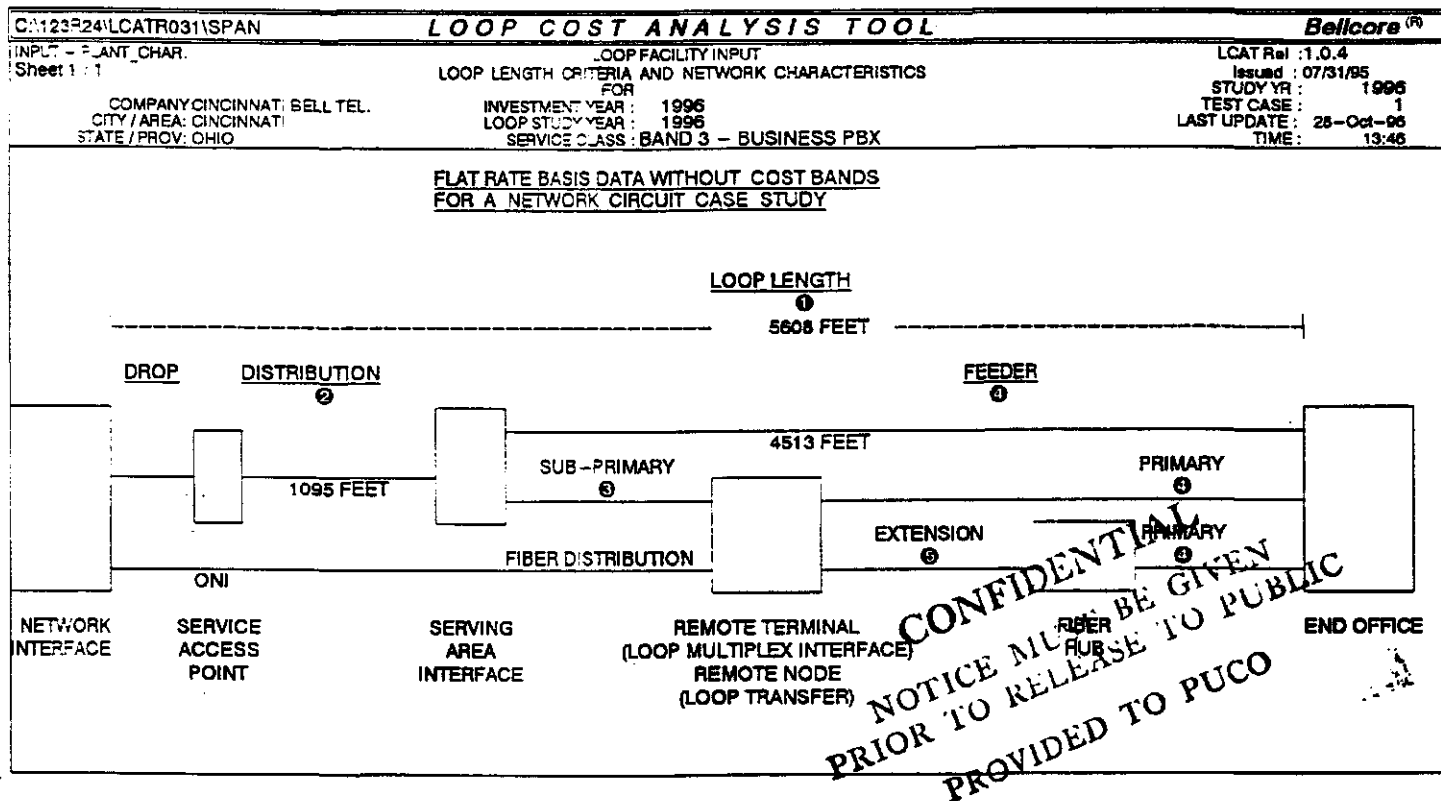
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| C:\123R24\LCATR031\SPAN                                                             |                                                                              | <b>LOOP COST ANALYSIS TOOL</b>                   |                      | Bellcore (R)                                                                                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------|
| INPUT - PLANT_CHAR.<br>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: 1995                            | FOR                  | STUDY YR: 1995                                                                                |
| CITY / AREA: CINCINNATI                                                             |                                                                              | LOOP STUDY YEAR: 1995                            |                      | TEST CASE: 1                                                                                  |
| STATE / PROV: OHIO                                                                  |                                                                              | SERVICE CLASS: BAND 3 - BUSINESS PBX             |                      | LAST UPDATE: 28-Oct-96                                                                        |
|                                                                                     |                                                                              |                                                  |                      | TIME: 13:45                                                                                   |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b> |                                                                              |                                                  |                      |                                                                                               |
| <b>LOOP TOPOLOGY</b>                                                                |                                                                              | <b>ACTION SEGMENT</b>                            |                      |                                                                                               |
| 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                                |                      |                                                                                               |
| <b>SPAN LENGTHS</b>                                                                 |                                                                              |                                                  |                      |                                                                                               |
| ①                                                                                   | Average Distance From the Central Office to the Service Access Point         | TOTAL LOOP 5608.0                                |                      |                                                                                               |
| ②                                                                                   | Average Distance From the Serving Area Interface to the Service Access Point | DISTRIBUTION 1095.0                              |                      |                                                                                               |
| 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 4213.0                                   |                      |                                                                                               |
| ⑤                                                                                   | Average Distance From the Fiber Hub to the Remote Terminal                   | PRIMARY-EXTENSION                                |                      |                                                                                               |
| <b>LOOP LENGTH AT EACH COST BAND</b>                                                |                                                                              | <b>DISTRIBUTION OF COST BANDS IN THE NETWORK</b> |                      |                                                                                               |
| BAND 1                                                                              | <input type="text"/>                                                         | BAND 1                                           | <input type="text"/> | <b>CONFIDENTIAL</b><br>NOTICE MUST BE GIVEN<br>PRIOR TO RELEASE TO PUBLIC<br>PROVIDED TO PUCO |
| BAND 2                                                                              | <input type="text"/>                                                         | BAND 2                                           | <input type="text"/> |                                                                                               |
| BAND 3                                                                              | <input type="text"/>                                                         | BAND 3                                           | <input type="text"/> |                                                                                               |
| BAND 4                                                                              | <input type="text"/>                                                         | BAND 4                                           | <input type="text"/> |                                                                                               |
| BAND 5                                                                              | <input type="text"/>                                                         | BAND 5                                           | <input type="text"/> |                                                                                               |
| LAST                                                                                | 5608.0                                                                       | LAST                                             | 1.0000               | 1.0000:Hint                                                                                   |

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**LOOP COST ANALYSIS TOOL****Belcore**®INPUT - PLANT\_CHAR.  
Sheet 1 of 2LOOP FACILITY INPUT  
HELP SCREENLCAT 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 pair or 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 \*\*\*\*\*

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|                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |  |                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--|-------------------|--|
| C:\123R24\LCATR031\SPAN                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>LOOP COST ANALYSIS TOOL</b> |  | Bellcore (P)      |  |
| INPUT - PLANT_CHAR.                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HELP SCREEN                    |  | LCAT Rev 1.0.4    |  |
| Sheet 2 of 2                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |  | Issued : 07/31/95 |  |
| COST DETAILS                                                                                                                                                           | <p>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.</p> <p>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.</p>                                                           |                                |  |                   |  |
| LOOP TOPOLOGY                                                                                                                                                          | <p>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.</p> |                                |  |                   |  |
| <p>***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****</p> <p>***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |  |                   |  |
| <p>PRESS 'ENTER' TO RETURN TO THE MAIN MENU</p>                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |  |                   |  |

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| C:\123R24\LCATR031\SPAN        |        | LOOP COST ANALYSIS TOOL                                     |                                            |                                                 |                                            |                                                 |                                            | Bellcore <sup>®</sup>                           |     |
|--------------------------------|--------|-------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|--------------------------------------------|-------------------------------------------------|--------------------------------------------|-------------------------------------------------|-----|
| INPUT - PLANT CHAR.            |        | LOOP FACILITY INPUT                                         |                                            |                                                 |                                            |                                                 |                                            | LCAT Rel: 1.0.4                                 |     |
| Sheet 2a / 5                   |        | FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER |                                            |                                                 |                                            |                                                 |                                            | Issued: 07/31/95                                |     |
| COMPANY: 0                     |        | INVESTMENT YEAR: 1996                                       |                                            |                                                 |                                            |                                                 |                                            | STUDY YR: 1996                                  |     |
| CITY / AREA: 0                 |        | LOOP STUDY YEAR: 1996                                       |                                            |                                                 |                                            |                                                 |                                            | TEST CASE: 1                                    |     |
| STATE / PROV: 0                |        | SERVICE CLASS: BAND 3 - BUSINESS PBX                        |                                            |                                                 |                                            |                                                 |                                            | LAST UPDATE: 28-Oct-96                          |     |
|                                |        | TIME: 13:46                                                 |                                            |                                                 |                                            |                                                 |                                            |                                                 |     |
| NETWORK CIRCUIT LAYOUT STUDIES |        |                                                             |                                            |                                                 |                                            |                                                 |                                            |                                                 |     |
| WORKSHEET A                    |        |                                                             |                                            |                                                 |                                            |                                                 |                                            |                                                 |     |
| CAPACITY                       |        |                                                             | AERIAL FIBER                               |                                                 | BURIED FIBER                               |                                                 | UNDERGROUND FIBER                          |                                                 |     |
| [C]                            | idx    |                                                             | CUMULATIVE FEEDER LENGTH [D <sub>A</sub> ] | EFFECTIVE LENGTH BY PAIR FOOT [E <sub>A</sub> ] | CUMULATIVE FEEDER LENGTH [D <sub>B</sub> ] | EFFECTIVE LENGTH BY PAIR FOOT [E <sub>B</sub> ] | CUMULATIVE FEEDER LENGTH [D <sub>U</sub> ] | EFFECTIVE LENGTH BY PAIR FOOT [E <sub>U</sub> ] |     |
| 4 FIBER CABLE                  | 2 pr   |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 6 FIBER CABLE                  | 3 pr   |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 12 FIBER CABLE                 | 5 pr   |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 18 FIBER CABLE                 | 9 pr   |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 24 FIBER CABLE                 | 12 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 36 FIBER CABLE                 | 18 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 48 FIBER CABLE                 | 24 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 60 FIBER CABLE                 | 30 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 72 FIBER CABLE                 | 36 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 84 FIBER CABLE                 | 42 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 96 FIBER CABLE                 | 48 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 144 FIBER CABLE                | 72 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 192 FIBER CABLE                | 96 pr  |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| 216 FIBER CABLE                | 108 pr |                                                             |                                            | 0.0                                             |                                            | 0.0                                             |                                            | 0.0                                             | 0.0 |
| CUMULATIVE LENGTHS OF FEEDER:  |        |                                                             |                                            |                                                 | EFFECTIVE CABLE LENGTH BY CABLE PAIR FOOT: |                                                 |                                            |                                                 |     |
| AERIAL FIBER SUBTOTAL          |        |                                                             | 0                                          |                                                 | AERIAL FIBER SUBTOTAL                      |                                                 | 0.0                                        |                                                 |     |
| BURIED FIBER SUBTOTAL          |        |                                                             | 0                                          |                                                 | BURIED FIBER SUBTOTAL                      |                                                 | 0.0                                        |                                                 |     |
| UNDGRD FIBER SUBTOTAL          |        |                                                             | 0                                          |                                                 | UNDGRD FIBER SUBTOTAL                      |                                                 | 0.0                                        |                                                 |     |
| FIBER SUBTOTAL                 |        |                                                             | 0                                          |                                                 | FIBER SUBTOTAL                             |                                                 | 0.0                                        |                                                 |     |

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| CA123R24\LCATR031\SPAN                     |  | LOOP COST ANALYSIS TOOL                                                              |  | Bellcore <sup>®</sup>               |  |
|--------------------------------------------|--|--------------------------------------------------------------------------------------|--|-------------------------------------|--|
| PLANT: C-AR - WORKSHEET 2B<br>Sheet 25 / 5 |  | LOOP FACILITY INPUT<br>FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |  |
| COMPANY: CINCINNATI BELL TEL.              |  | INVESTMENT YEAR: 1996                                                                |  | STUDY YR: 1996                      |  |
| CITY / AREA: CINCINNATI                    |  | LOOP STUDY YEAR: 1996                                                                |  | TEST CASE: 1                        |  |
| STATE: OHIO                                |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                                                 |  | LAST UPDATE: 28-Oct-96              |  |
| NETWORK CIRCUIT LAYOUT STUDIES             |  | WORKSHEET B                                                                          |  | TIME: 13:46                         |  |

EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] =  $\frac{[E] \text{WKSH A}}{[F] \text{WKSH C}}$   
 CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] =  $[A] * [C] * \text{UNIT INV FACILITY WKSH B}$

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

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| C:\123R24\LCATR031\SPAN                                                        |                 | LOOP COST ANALYSIS TOOL                                                              |        |        |        |        |        | Bellcore                                                                  |        |        |
|--------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|---------------------------------------------------------------------------|--------|--------|
| INPUT - PLANT CHAR.<br>Sheet 3a / 5                                            |                 | LOOP FACILITY INPUT<br>COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER<br>FOR |        |        |        |        |        | LCAT Rel : 1.0.4<br>Issued : 07/31/95                                     |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS   |        |        |        |        |        | STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 13:46 |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                                                 |                 | WORKSHEET A                                                                          |        |        |        |        |        |                                                                           |        |        |
|                                                                                |                 | CUMULATIVE LENGTHS BY CABLE PAIR FOOT                                                |        |        |        |        |        |                                                                           |        |        |
| CABLE SHEATH SIZES                                                             | CAPACITY<br>10x | 26 GA.                                                                               |        |        | 24 GA. |        |        | 22 GA.                                                                    |        |        |
|                                                                                |                 | AERIAL                                                                               | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD | AERIAL                                                                    | BURIED | UNDGRD |
| 40 COPPER CABLE                                                                | 20 pr           |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 50 COPPER CABLE                                                                | 25 pr           |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 80 COPPER CABLE                                                                | 40 pr           |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 100 COPPER CABLE                                                               | 50 pr           |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 140 COPPER CABLE                                                               | 70 pr           |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 200 COPPER CABLE                                                               | 100 pr          |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 400 COPPER CABLE                                                               | 200 pr          |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 600 COPPER CABLE                                                               | 300 pr          |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 800 COPPER CABLE                                                               | 400 pr          |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 1200 COPPER CABLE                                                              | 600 pr          |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 1800 COPPER CABLE                                                              | 900 pr          |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 2400 COPPER CABLE                                                              | 1200 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 3000 COPPER CABLE                                                              | 1500 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 3600 COPPER CABLE                                                              | 1800 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 4200 COPPER CABLE                                                              | 2100 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 4800 COPPER CABLE                                                              | 2400 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 5400 COPPER CABLE                                                              | 2700 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 6000 COPPER CABLE                                                              | 3000 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 7200 COPPER CABLE                                                              | 3600 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| 8400 COPPER CABLE                                                              | 4200 pr         |                                                                                      |        |        |        |        |        |                                                                           |        |        |
| SUB TOTALS                                                                     |                 | 0.0                                                                                  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                                                                       | 0.0    | 0.0    |
| TOTALS                                                                         |                 |                                                                                      |        | 0.0    |        |        |        |                                                                           |        | 0.0    |

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|-------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------|--------|--------|--------|---------|
| PLANT CHAR - WORKSHEET 38<br>Sheet 3b / 5                               |                 | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |        |        |        |        |        | LCAT Rel: 1.0.4<br>Issued: 07/31/95                                     |        |        |        |         |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |                 | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                  |        |        |        |        |        | STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-95<br>TIME: 13:45 |        |        |        |         |
| SERVICE CLASS: BAND 3 - BUSINESS                                        |                 | NETWORK CIRCUIT LAYOUT STUDIES                                                  |        |        |        |        |        | WORKSHEET B                                                             |        |        |        |         |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT                              |                 |                                                                                 |        |        |        |        |        |                                                                         |        |        |        |         |
| CABLE SHEATH SIZES                                                      | CAPACITY<br>idx |                                                                                 | 26 GA. |        |        | 24 GA. |        |                                                                         | 22 GA. |        |        |         |
|                                                                         |                 |                                                                                 | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD                                                                  | AERIAL | BURIED | UNDGRD |         |
| 40 COPPER CABLE                                                         | 20 pr           | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 50 COPPER CABLE                                                         | 25 pr           | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 80 COPPER CABLE                                                         | 40 pr           | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 100 COPPER CABLE                                                        | 50 pr           | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 140 COPPER CABLE                                                        | 70 pr           | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 200 COPPER CABLE                                                        | 100 pr          | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 400 COPPER CABLE                                                        | 200 pr          | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 600 COPPER CABLE                                                        | 300 pr          | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 800 COPPER CABLE                                                        | 400 pr          | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 1200 COPPER CABLE                                                       | 600 pr          | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 1800 COPPER CABLE                                                       | 900 pr          | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 2400 COPPER CABLE                                                       | 1200 pr         | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 3000 COPPER CABLE                                                       | 1500 pr         | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 3600 COPPER CABLE                                                       | 1800 pr         | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |         |
| 4200 COPPER CABLE                                                       | 2100 pr         | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   | \$ 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   | \$ 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   | \$ 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   | \$ 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   | \$ 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   | \$ 0.00 |
| AERIAL CABLE SUBTOTAL                                                   |                 |                                                                                 | 0.00   |        |        | 0.00   |        |                                                                         | 0.00   |        |        |         |
| BURIED CABLE SUBTOTAL                                                   |                 |                                                                                 |        | 0.00   |        |        | 0.00   |                                                                         |        | 0.00   |        |         |
| UNDGRD CABLE SUBTOTAL                                                   |                 |                                                                                 |        |        | 0.00   |        |        |                                                                         |        |        | 0.00   |         |

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|--------------------------------|----------------|--------------------------------------------------------------|--------|--------|------------------------|--------|--------|--------|--------|--------|----------|
| INPUT - PLANT CHAR.            |                | LOOP FACILITY INPUT                                          |        |        | LCAT Rel : 1.0.4       |        |        |        |        |        |          |
| Sheet 4a / 5                   |                | COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER |        |        | Issued : 07/31/95      |        |        |        |        |        |          |
| COMPANY: CINCINNATI BELL TEL.  |                | INVESTMENT YEAR: 1996                                        |        |        | STUDY YR : 1996        |        |        |        |        |        |          |
| CITY / AREA: CINCINNATI        |                | LOOP STUDY YEAR: 1996                                        |        |        | TEST CASE : 1          |        |        |        |        |        |          |
| STATE / PROV: OHIO             |                | SERVICE CLASS: BAND 3 - BUSINESS                             |        |        | LAST UPDATE: 28-Oct-96 |        |        |        |        |        |          |
| TIME: 13:46                    |                |                                                              |        |        |                        |        |        |        |        |        |          |
| NETWORK CIRCUIT LAYOUT STUDIES |                | WORKSHEET A                                                  |        |        |                        |        |        |        |        |        |          |
|                                |                | CUMULATIVE LENGTHS BY CABLE PAIR FOOT                        |        |        |                        |        |        |        |        |        |          |
| CABLE SHEATH SIZES             | CAPACITY<br>pr | 26 GA.                                                       |        |        | 24 GA.                 |        |        | 22 GA. |        |        |          |
|                                |                | AERIAL                                                       | BURIED | UNDGRD | AERIAL                 | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD |          |
| 40 COPPER CABLE                | 20 pr          |                                                              |        |        |                        |        |        |        |        |        |          |
| 50 COPPER CABLE                | 25 pr          |                                                              |        |        |                        |        |        |        |        |        |          |
| 80 COPPER CABLE                | 40 pr          |                                                              |        |        |                        |        |        |        |        |        |          |
| 100 COPPER CABLE               | 50 pr          |                                                              |        |        |                        |        |        |        |        |        |          |
| 140 COPPER CABLE               | 70 pr          |                                                              |        |        |                        |        |        |        |        |        |          |
| 200 COPPER CABLE               | 100 pr         |                                                              |        |        |                        |        |        |        |        |        |          |
| 400 COPPER CABLE               | 200 pr         |                                                              |        |        |                        |        |        |        |        |        |          |
| 600 COPPER CABLE               | 300 pr         |                                                              |        |        |                        |        |        |        |        |        |          |
| 800 COPPER CABLE               | 400 pr         |                                                              |        |        |                        |        |        |        |        |        |          |
| 1200 COPPER CABLE              | 600 pr         |                                                              |        |        |                        |        |        |        |        |        |          |
| 1800 COPPER CABLE              | 900 pr         |                                                              |        |        |                        |        |        |        |        |        |          |
| 2400 COPPER CABLE              | 1200 pr        |                                                              |        |        |                        |        |        |        |        |        |          |
| 3000 COPPER CABLE              | 1500 pr        |                                                              |        |        |                        |        |        |        |        |        |          |
| 3600 COPPER CABLE              | 1800 pr        |                                                              |        |        |                        |        |        |        |        |        |          |
| 4200 COPPER CABLE              | 2100 pr        |                                                              |        |        |                        |        |        |        |        |        |          |
| 4800 COPPER CABLE              | 2400 pr        |                                                              |        |        |                        |        |        |        |        |        | 0.0      |
| 5400 COPPER CABLE              | 2700 pr        |                                                              |        |        |                        |        |        |        |        |        | dstacprf |
| 6000 COPPER CABLE              | 3000 pr        |                                                              |        |        |                        |        |        |        |        |        | 0.0      |
| 7200 COPPER CABLE              | 3600 pr        |                                                              |        |        |                        |        |        |        |        |        | dstbcprf |
| 8400 COPPER CABLE              | 4200 pr        |                                                              |        |        |                        |        |        |        |        |        | 0.0      |
| SUB TOTALS                     |                | 0.0                                                          | 0.0    | 0.0    | 0.0                    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | dstucprf |
| TOTALS                         |                |                                                              |        | 0.0    |                        |        | 0.0    |        |        | 0.0    | 0.0      |

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## LOOP COST ANALYSIS TOOL

Bellcore<sup>®</sup>PLANT CHAR - WORKSHEET 4B  
Sheet 4b / 5LOOP FACILITY INPUT  
COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER  
FORLCAT Rel : 1.0.4  
Issued : 07/31/95COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATIINVESTMENT YEAR: 1996  
LOOP STUDY YEAR: 1996STUDY YR : 1996  
TEST CASE : 1  
LAST UPDATE: 28-Oct-96  
TIME: 13:46

STATE: OHIO

SERVICE CLASS: BAND 3 - BUSINESS

## NETWORK CIRCUIT LAYOUT STUDIES

## WORKSHEET B

## CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

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

NOTED BY: [Signature]  
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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: 1996

TEST CASE: 1

LAST UPDATE: 28-Oct-96

TIME: 13:46

## WORKSHEET DS

| DIGITAL SIGNAL TABLE (dissig. 0) |       |           |             |         |         |                      |
|----------------------------------|-------|-----------|-------------|---------|---------|----------------------|
| SELECT                           | MODE  | HIERARCHY | BNDWID      | DS1MULT | DS3MULT | VGE MEDIA            |
| 0                                |       | DS1       | 1.5 Mbds    | 1       | 0.04    | 24 BIDIR, 2WCU CA    |
| 1                                |       | DS1       | 1.5 Mbds    | 1       | 0.04    | 24 UNDIR, 4WCU CA    |
| 2                                | MODE3 | VT1       | 1.5 Mbds    | 1       | 0.04    | 24 UNDIR, FIBER      |
| 3                                |       | VT2       | 2 Mbds      | 1       | 0       | 0 UNDIR, FIBER       |
| 4                                |       | ET        | 2 Mbds      | 1       | 0.06    | 30 BIDIR, 2WCU CA    |
| 5                                |       | DS1C      | 3.2 Mbds NA | 2       | 0.07    | 48 BIDIR, 2WCU CA    |
| 6                                | MODE1 | DS1C      | 3.2 Mbds    | 2       | 0.07    | 48 BIDIR, 2WCU CA    |
| 7                                | MODE2 | VT3       | 3.2 Mbds    | 2       | 0.07    | 56 UNDIR, FIBER      |
| 8                                |       | 4 Mbds    |             | 2       | 0       | 60 UNDIR, FIBER      |
| 9                                |       | DS2       | 6.3 Mbds    | 4       | 0.14    | 72 BIDIR, 2WCU CA    |
| 10                               |       | DS2       | 6.3 Mbds NA | 4       | 0       | 72 BIDIR, 2WCU CA    |
| 11                               | MODE4 | VT6       | 6.3 Mbds    | 4       | 0.14    | 84 UNDIR, FIBER      |
| 12                               |       | E2        | 8 Mbds      | 4       | 0.25    | 120 BIDIR, 2WCU CA   |
| 13                               |       | E3        | 34 Mbds     | 16      |         | 480 UNDIR, FIBER     |
| 14                               |       | DS3       | 45 Mbds     | 28      | 1       | 572 BIDIR, 2WCU CA   |
| 15                               | X     | STST      | OC1         | 50 Mbds | 28      | 572 UNDIR, FIBER     |
| 16                               |       | 90 Mbds   |             | 2       |         | 1344 UNDIR, FIBER    |
| 17                               | X     | 90 Mbds   |             | 2       |         | 1344 BIDIR, MW RADIO |
| 18                               |       | DS4       | 135 Mbds    | 3       |         | 2016 UNDIR, FIBER    |
| 19                               |       | 135 Mbds  |             | 3       |         | 2016 BIDIR, MW RADIO |
| 20                               |       | DS4NA     | 139 Mbds    | 3       |         | 2016 UNDIR, FIBER    |
| 21                               |       | E4        | 140 Mbds    | 3       |         | 1920 UNDIR, FIBER    |
| 22                               |       | 14M       | 139 Mbds    | 6       |         | 4032 BIDIR, COAX     |
| 23                               |       | P140      | 139 Mbds    | 6       |         | 4032 BIDIR, COAX     |
| 24                               |       | OC3       | 155 Mbds    | 3       |         | 2016 UNDIR, FIBER    |
| 25                               | X     | 180 Mbds  |             | 4       |         | 2688 UNDIR, FIBER    |
| 26                               | X     | 417 Mbds  |             | 9       |         | 6048 UNDIR, FIBER    |
| 27                               |       | OC9       | 466 Mbds    | 9       |         | 6048 UNDIR, FIBER    |
| 28                               |       | OC12      | 560 Mbds    | 12      |         | 7680 UNDIR, FIBER    |
| 29                               |       | 565 Mbds  |             | 12      |         | 8064 UNDIR, FIBER    |
| 30                               |       | 1.2 Gbps  |             | 24      |         | 16128 UNDIR, FIBER   |
| 31                               |       | 1.7 Gbps  |             | 36      |         | 24192 UNDIR, FIBER   |
| 32                               |       | OC24      | 1.8 Gbps    | 24      |         | 24192 UNDIR, FIBER   |
| 33                               |       | 2.5 Gbps  |             | 24      |         | 24560 UNDIR, FIBER   |
| 34                               |       |           |             |         |         |                      |
| 35                               |       |           |             |         |         |                      |
| 36                               |       |           |             |         |         |                      |
| OFFSET                           |       |           |             |         |         |                      |
|                                  | 0     | 1         | 2           | 3       | 4       | 5                    |

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PLANT CHAR. - WORKSHEET F

Sheet 1 of 1

## LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

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

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

STUDY YR.: 1996  
TEST CASE: 1  
LAST UPDATE: 28-Oct-96  
TIME: 13:46

| [A]<br>BAND<br>NUMBER<br>[C] | DISTANCE INCREMENTS:<br>NUMBER OF BANDS:<br>[B] | 0 / 4 MILE BETWEEN BANDS<br>0 TO BE CARRIED INTO THE STUDY | TOTAL<br>WORKING<br>FEET<br>[E=(B*D)] | TOTAL<br>AIR<br>FEET<br>[F=A*C*K] | ROUTE TO AIR RATIO:<br>UNIT MILE / FEET CONSTANT:<br>[R]<br>[K] | WORKING<br>FEET<br>@ MIDPOINT<br>[H=G*R] |
|------------------------------|-------------------------------------------------|------------------------------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------------------------------------|------------------------------------------|
| 1                            |                                                 |                                                            | 0                                     |                                   | 1.538947                                                        | 0                                        |
| 2                            |                                                 |                                                            | 0                                     |                                   | 1320                                                            | 0                                        |
| 3                            |                                                 |                                                            | 0                                     |                                   |                                                                 | 0                                        |
| 4                            |                                                 |                                                            | 0                                     |                                   |                                                                 | 0                                        |
| 5                            |                                                 |                                                            | 0                                     |                                   |                                                                 | 0                                        |

NOTE - SPAN MIDPOINT [G] equals the SQRT((F<sub>CURR</sub><sup>2</sup>/2)+(F<sub>PREV</sub><sup>2</sup>/2))

ERROR MESSAG 0

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|                                                                                                                                                         |                                |                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| C:\123R24\LCAT\RC31\SPAN<br>PLANT CHART - WORKSHEET SA<br>Sheet 1 / 1<br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO | <b>LOOP COST ANALYSIS TOOL</b> | <b>Bellcore (R)</b><br>LCAT Ver: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 13:48 |
| WORKSHEET SA                                                                                                                                            |                                |                                                                                                                                       |

Sub Feeder Allocation Table

| Sub Feeder Allocation Table      |                             |             |             |             |                             |       |       |       |              |        |
|----------------------------------|-----------------------------|-------------|-------------|-------------|-----------------------------|-------|-------|-------|--------------|--------|
| cur lplgth                       | segment alloc               |             |             |             |                             |       |       |       |              |        |
| dlcdepl = 18000                  | NO COLOCATED STOPS = BUS    |             |             |             | COLOCATED RT AND CP, where  |       |       |       |              |        |
| [B]distspa 1095                  | [dstopo = STAF]dstopo = BUS |             |             |             | [dstopo = STAF]dstopo = BUS |       |       |       |              |        |
| nom_rangcur - dissubfeedprfeeder | subfeedprfeeder             |             |             |             | subfeedprfeeder             |       |       |       | prfeeder dif |        |
| [C] [D=C-I]                      | [E] [F=D-E]                 | [G] [H=D-G] | [I] [J=C-I] | [K] [L=C-K] | [M=A-C]                     |       |       |       |              |        |
| 500                              | 0                           | 0           | 0           | 0           | 0                           | 500   | 0     | 500   | 0            | 5808   |
| 1000                             | 0                           | 0           | 0           | 0           | 0                           | 1000  | 0     | 1000  | 0            | 5108   |
| 2000                             | 905                         | 905         | 0           | 905         | 0                           | 2000  | 0     | 2000  | 0            | 4608   |
| 3000                             | 1905                        | 1905        | 0           | 1905        | 0                           | 3000  | 0     | 3000  | 0            | 3608   |
| 4000                             | 2905                        | 2905        | 0           | 2905        | 0                           | 4000  | 0     | 4000  | 0            | 2608   |
| 5000                             | 3905                        | 3905        | 0           | 3905        | 0                           | 5000  | 0     | 5000  | 0            | 1608   |
| 6000                             | 4905                        | 4905        | 0           | 4905        | 0                           | 6000  | 0     | 6000  | 0            | 608    |
| 7000                             | 5905                        | 5905        | 0           | 5905        | 0                           | 7000  | 0     | 7000  | 0            | -392   |
| 8000                             | 6905                        | 6905        | 0           | 6905        | 0                           | 8000  | 0     | 8000  | 0            | -1392  |
| 9000                             | 7905                        | 7905        | 0           | 7905        | 0                           | 9000  | 0     | 9000  | 0            | -2392  |
| 10000                            | 8905                        | 8905        | 0           | 8905        | 0                           | 10000 | 0     | 10000 | 0            | -3392  |
| 11000                            | 9905                        | 9905        | 0           | 9905        | 0                           | 11000 | 0     | 11000 | 0            | -4392  |
| 12000                            | 10905                       | 10905       | 0           | 10905       | 0                           | 12000 | 0     | 12000 | 0            | -5392  |
| 13000                            | 11905                       | 11905       | 0           | 11905       | 0                           | 13000 | 0     | 13000 | 0            | -6392  |
| 14000                            | 12905                       | 12905       | 0           | 12905       | 0                           | 14000 | 0     | 14000 | 0            | -7392  |
| 15000                            | 13905                       | 13905       | 0           | 13905       | 0                           | 15000 | 0     | 15000 | 0            | -8392  |
| 16000                            | 14905                       | 14905       | 0           | 14905       | 0                           | 16000 | 0     | 16000 | 0            | -9392  |
| 17000                            | 15905                       | 15905       | 0           | 15905       | 0                           | 17000 | 0     | 17000 | 0            | -10392 |
| 18000                            | 16905                       | 8452.5      | 8452.5      | 0           | 16905                       | 9000  | 9000  | 0     | 18000        | -11392 |
| 19000                            | 17905                       | 8952.5      | 8952.5      | 0           | 17905                       | 9500  | 9500  | 0     | 19000        | -12392 |
| 20000                            | 18905                       | 9452.5      | 9452.5      | 0           | 18905                       | 10000 | 10000 | 0     | 20000        | -13392 |
| 80000                            | 78905                       | 16905       | 62000       | 1000        | 77905                       | 16905 | 63095 | 1000  | 79000        | -74392 |

## RULES

ASSUMPTION - Table LOOKUP will select from the lower NOM RANGE of a CUR LPLGTH intermediate value

If CUR\_LPLGTH is

- = < DISTSPAN, then CUR\_SEGLGTH<sup>OST</sup> Equals CUR\_LPLGTH - NOM\_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR\_SEGLGTH<sup>STOF</sup> Equals CUR\_LPLGTH - NOM\_RANGE difference
- = > DLCDEPL, then CUR\_SEGLGTH<sup>PROF</sup> Equals CUR\_LPLGTH - NOM\_RANGE difference

## CUR\_SEGLGTH - Calculation Assumptions

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

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

OHIO ONLY  
3 Geographic Areas

07/26/96  
Revised

**Band 1**

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

| Residence         |                   |              |
|-------------------|-------------------|--------------|
| Average F1 Length | Average F2 Length | Average Loop |
| A                 | B                 | C            |
| 6,081             | 1,103             | 7,184        |
| 107               |                   |              |
| 14,881            | 2,346             | 17,226       |
| 53                |                   |              |
|                   |                   |              |
| 0.5744            |                   |              |
| 0.4256            |                   |              |
| 1.0000            |                   |              |

| Business          |                   |              |
|-------------------|-------------------|--------------|
| Average F1 Length | Average F2 Length | Average Loop |
| D                 | E                 | F            |
| 5,765             | 638               | 6,403        |
| 255               |                   |              |
| 13,630            | 2,046             | 15,677       |
| 38                |                   |              |
|                   |                   |              |
| 0.7433            |                   |              |
| 0.2567            |                   |              |
| 1.0000            |                   |              |

**Band 2**

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

|        |       |        |
|--------|-------|--------|
| 6,697  | 1,836 | 8,534  |
| 69     |       |        |
| 19,582 | 2,699 | 22,282 |
| 70     |       |        |
|        |       |        |
| 0.4964 |       |        |
| 0.5036 |       |        |
| 1.0000 |       |        |

|        |       |        |
|--------|-------|--------|
| 5,698  | 1,013 | 6,711  |
| 90     |       |        |
| 21,785 | 1,989 | 23,774 |
| 74     |       |        |
|        |       |        |
| 0.5488 |       |        |
| 0.4512 |       |        |
| 1.0000 |       |        |

**Band 3**

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

|        |       |        |
|--------|-------|--------|
| 4,845  | 1,981 | 6,825  |
| 46     |       |        |
| 23,301 | 4,826 | 28,127 |
| 56     |       |        |
|        |       |        |
| 0.4510 |       |        |
| 0.5490 |       |        |
| 1.0000 |       |        |

|        |       |        |
|--------|-------|--------|
| 4,512  | 7,088 | 5,608  |
| 41     |       |        |
| 23,841 | 3,479 | 27,360 |
| 30     |       |        |
|        |       |        |
| 0.4475 |       |        |
| 0.4225 |       |        |
| 1.0000 |       |        |

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OUTPUT - REPORT D  
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT SUMMARY REPORTBellicore<sup>2</sup>LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:35COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - BUSINESS PBX  
TOTAL LOOP LENGTH: 27360 FEET

| Loop Span Set Weighting: <input type="checkbox"/> |            | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |                      |           |         | WEIGHTED  |
|---------------------------------------------------|------------|---------------------------------------------------------------------|-----------|----------------------|-----------|---------|-----------|
| PLANT NAME                                        |            | FEEDER                                                              |           | DISTRIBUTION NETWORK |           |         | TOTAL     |
| SEG. NAME                                         | EQPT       | PRIMARY                                                             | EXTENSION | SUB-                 | INTERFACE |         | LOOP      |
| PLANT                                             | CODE       |                                                                     |           |                      |           |         |           |
| ITEM DESCRIPTION                                  | SEG. LGTH. |                                                                     |           |                      |           |         |           |
| <b>SHARED RESOURCES</b>                           |            |                                                                     |           |                      |           |         |           |
| LAND                                              | 20C        | \$ 0.03                                                             | \$ 0.00   | \$ 0.01              | \$ 0.00   | \$ 0.00 | \$ 0.0437 |
| BUILDING                                          | 10C        | \$ 1.00                                                             | \$ 0.00   | \$ 0.28              | \$ 0.00   | \$ 0.00 | \$ 1.2810 |
| BLDG ENTRANCE CABLE                               | 12C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| INTRABLDG CABLE                                   | 52C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (COPPER)                             | 22C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| BURIED CABLE (COPPER)                             | 45C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| UNDERGROUND (CU) CA.                              | 5C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - LOW CAP TERM                            | 257C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - LOW CAP CHAN                            | 257C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - HI CAP TERM                             | 857C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - HI CAP CHAN                             | 857C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - ANALOG SW                               | 77C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - DIGITAL SW                              | 377C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (FIBER)                              | 822C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| BURIED CABLE (FIBER)                              | 845C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| UNDERGROUND (FO) CA.                              | 85C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CONNECTORS                                        | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| MISC. COM EQP & PWR                               | 57C        | \$ 0.44                                                             | \$ 0.00   | \$ 0.29              | \$ 0.00   | \$ 0.00 | \$ 0.7333 |
| POLE LINE                                         | 1C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CONDUIT                                           | 4C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| <b>DIRECT RESOURCES</b>                           |            |                                                                     |           |                      |           |         |           |
| LAND                                              | 20C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| BUILDING                                          | 10C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| BLDG ENTRANCE CABLE                               | 12C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 2.45 | \$ 2.4513 |
| INTRABLDG CABLE                                   | 52C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (COPPER)                             | 22C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.15              | \$ 8.10   | \$ 0.00 | \$ 8.2500 |
| BURIED CABLE (COPPER)                             | 45C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.01              | \$ 8.30   | \$ 0.00 | \$ 8.3100 |
| UNDERGROUND (CU) CA.                              | 5C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.03              | \$ 0.00   | \$ 0.00 | \$ 0.0300 |
| CO EQPT - LOW CAP TERM                            | 257C       | \$ 2.94                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 2.9436 |
| CO EQPT - LOW CAP CHAN                            | 257C       | \$ 7.98                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 7.9833 |
| CO EQPT - HI CAP TERM                             | 857C       | \$ 0.73                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.7268 |
| CO EQPT - HI CAP CHAN                             | 857C       | \$ 1.23                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 1.2325 |
| CO EQPT - ANALOG SW                               | 77C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| CO EQPT - DIGITAL SW                              | 377C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (FIBER)                              | 822C       | \$ 0.14                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.1403 |
| BURIED CABLE (FIBER)                              | 845C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| UNDERGROUND (FO) CA.                              | 85C        | \$ 0.03                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0343 |
| CONNECTORS                                        | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| MISC. COM EQP & PWR                               | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.0000 |
| POLE LINE                                         | 1C         | \$ 0.04                                                             | \$ 0.00   | \$ 0.04              | \$ 0.00   | \$ 0.00 | \$ 2.0052 |
| CONDUIT                                           | 4C         | \$ 0.02                                                             | \$ 0.00   | \$ 0.01              | \$ 0.00   | \$ 0.00 | \$ 0.0268 |
| SPAN SUMMARY                                      |            | \$ 14.59                                                            | \$ 0.00   | \$ 0.82              | \$ 18.33  | \$ 2.45 | \$ 36.19  |

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C:\123R24\LCATR032\RESULTS  
OUTPUT - COST\_REPORTS

**Bellcore**<sup>(R)</sup>  
LCAT  
Release: 1.0.4  
Issued: 7/31/95

## LOOP COST ANALYSIS TOOL

### COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 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      | 09:20  |
| CST METH           | UN INCR   | INV LEVEL  | ANNGOS |

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C:\123R24\LCATR032\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore<sup>®</sup>LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:35COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - BUSINESS PBX  
TOTAL LOOP LENGTH: 27300 FEET

| Circuit Design Mix: 1.0000 |           | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |           |          | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|----------------------------|-----------|------------------------------------------------------------|---------|-----------|----------|---------------|---------------------------|
| PLANT NAME                 | SEG. NAME | PRIMARY                                                    | FEEDER  | EXTENSION | SUB--    |               |                           |
| EQPT                       | EQPT      |                                                            |         |           |          |               |                           |
| PLANT                      | CODE      |                                                            |         |           |          |               |                           |
| ITEM DESCRIPTION           |           |                                                            |         |           |          |               |                           |
| <b>SHARED RESOURCES</b>    |           |                                                            |         |           |          |               |                           |
| LAND                       | 20C       | \$ 0.03                                                    |         |           | \$ 0.01  | \$ 0.00       | \$ 0.04                   |
| BUILDING                   | 10C       | \$ 0.85                                                    |         |           | \$ 0.28  | \$ 0.00       | \$ 1.13                   |
| 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       | \$ 0.36                                                    |         |           | \$ 0.29  | \$ 0.00       | \$ 0.65                   |
| POLE LINE                  | 1C        | \$ 0.00                                                    |         |           | \$ 0.00  | \$ 0.00       | \$ 0.00                   |
| CONDUIT                    | 4C        | \$ 0.00                                                    |         |           | \$ 0.00  | \$ 0.00       | \$ 0.00                   |
| <b>DIRECT RESOURCES</b>    |           |                                                            |         |           |          |               |                           |
| 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       | \$ 2.45                   |
| INTRABLDG CABLE            | 52C       | \$ 0.00                                                    |         |           | \$ 0.00  | \$ 0.00       | \$ 0.00                   |
| AERIAL CABLE (COPPER)      | 22C       | \$ 3.02                                                    |         |           | \$ 0.15  | \$ 8.10       | \$ 11.27                  |
| BURIED CABLE (COPPER)      | 45C       | \$ 0.21                                                    |         |           | \$ 0.01  | \$ 8.30       | \$ 8.52                   |
| UNDERGROUND (CU) CA.       | 5C        | \$ 0.75                                                    |         |           | \$ 0.03  | \$ 0.00       | \$ 0.78                   |
| CO EQPT - LOW CAP TERM     | 257C      | \$ 3.66                                                    |         |           | \$ 0.00  | \$ 0.00       | \$ 3.66                   |
| CO EQPT - LOW CAP CHAN     | 257C      | \$ 7.98                                                    |         |           | \$ 0.00  | \$ 0.00       | \$ 7.98                   |
| 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        | \$ 0.72                                                    |         |           | \$ 0.04  | \$ 1.95       | \$ 2.69                   |
| CONDUIT                    | 4C        | \$ 0.19                                                    |         |           | \$ 0.01  | \$ 0.20       | \$ 0.20                   |
| SPAN SUMMARY               |           | \$ 17.78                                                   | \$ 0.00 | \$ 0.82   | \$ 18.33 | \$ 2.45       | \$ 39.39                  |
| CIRCUIT DESIGN SUMMARY     |           |                                                            |         |           |          | \$ 39.39      |                           |

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| A<br>B<br>C<br>D<br>E<br>F<br>G                                      |  | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                                    |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       | Bellcore <sup>®</sup> |          |
|----------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------|-----------|---------|-----------|---------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|-----------|--------------------------------------------------------------------------------------------------------|-------|-----------------------|----------|
| C:\123R24\LCATR032\RESULTS1<br>OUTPUT - WORKSHEET D<br>SHEET 2 of 10 |  | COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO<br>JOB IDENT: CINCINNATI |           |         |           | CIRCUIT DESIGN: 2 CDLC<br>LOOP SPAN DIVISION: ALL LOOP SPANS<br>SERVICE CLASS: BAND 3 - BUSINESS PBX<br>TOTAL LOOP LENGTH: 27350 FEET |              |         |           | LCAT Rel: 1.0.4<br>Issued: 7/31/95<br>STUDY YR: 1995<br>TEST CASE: 1<br>DATE: 28-Jan-97<br>TIME: 10:35 |       |                       |          |
| 0                                                                    |  | Circuit Design Mix: [0.0000] UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY                |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       | TOTAL                 | WEIGHTED |
| 1                                                                    |  | PLANT NAME                                                                                             | SEG. NAME | PRIMARY | EXTENSION | SUB--                                                                                                                                 | DISTRIBUTION | NETWORK | INTERFACE | LOOP                                                                                                   | TOTAL |                       |          |
| 2                                                                    |  | EQPT                                                                                                   | CODE      |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 3                                                                    |  | PLANT                                                                                                  |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 4                                                                    |  | ITEM DESCRIPTION                                                                                       |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 5                                                                    |  | <u>SHARED RESOURCES</u>                                                                                |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 6                                                                    |  | LAND                                                                                                   | 20C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 7                                                                    |  | BUILDING                                                                                               | 10C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 8                                                                    |  | BLDG ENTRANCE CABLE                                                                                    | 12C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 9                                                                    |  | INTRABLDG CABLE                                                                                        | 52C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 10                                                                   |  | AERIAL CABLE (COPPER)                                                                                  | 22C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 11                                                                   |  | BURIED CABLE (COPPER)                                                                                  | 45C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 12                                                                   |  | UNDERGROUND (CU) CA.                                                                                   | 5C        |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 13                                                                   |  | CO EQPT - LOW CAP TERM                                                                                 | 257C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 14                                                                   |  | CO EQPT - LOW CAP CHAN                                                                                 | 257C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 15                                                                   |  | CO EQPT - HI CAP TERM                                                                                  | 857C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 16                                                                   |  | CO EQPT - HI CAP CHAN                                                                                  | 857C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 17                                                                   |  | CO EQPT - ANALOG SW                                                                                    | 77C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 18                                                                   |  | CO EQPT - DIGITAL SW                                                                                   | 377C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 19                                                                   |  | AERIAL CABLE (FIBER)                                                                                   | 822C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 20                                                                   |  | BURIED CABLE (FIBER)                                                                                   | 845C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 21                                                                   |  | UNDERGROUND (FO) CA.                                                                                   | 85C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 22                                                                   |  | CONNECTORS                                                                                             | 57C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 23                                                                   |  | MISC. COM EQP & PWR                                                                                    | 57C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 24                                                                   |  | POLE LINE                                                                                              | 1C        |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 25                                                                   |  | CONDUIT                                                                                                | 4C        |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 26                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 27                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 28                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 29                                                                   |  | <u>DIRECT RESOURCES</u>                                                                                |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 30                                                                   |  | LAND                                                                                                   | 20C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 31                                                                   |  | BUILDING                                                                                               | 10C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 32                                                                   |  | BLDG ENTRANCE CABLE                                                                                    | 12C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 33                                                                   |  | INTRABLDG CABLE                                                                                        | 52C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 34                                                                   |  | AERIAL CABLE (COPPER)                                                                                  | 22C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 35                                                                   |  | BURIED CABLE (COPPER)                                                                                  | 45C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 36                                                                   |  | UNDERGROUND (CU) CA.                                                                                   | 5C        |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 37                                                                   |  | CO EQPT - P GAIN TERM                                                                                  | 257C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 38                                                                   |  | CO EQPT - P GAIN CHAN                                                                                  | 257C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 39                                                                   |  | CO EQPT - FO MUX TERM                                                                                  | 857C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 40                                                                   |  | CO EQPT - FO MUX CHAN                                                                                  | 857C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 41                                                                   |  | CO EQPT - ANALOG SW                                                                                    | 77C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 42                                                                   |  | CO EQPT - DIGITAL SW                                                                                   | 377C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 43                                                                   |  | AERIAL CABLE (FIBER)                                                                                   | 822C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 44                                                                   |  | BURIED CABLE (FIBER)                                                                                   | 845C      |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 45                                                                   |  | UNDERGROUND (FO) CA.                                                                                   | 85C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 46                                                                   |  | CONNECTORS                                                                                             | 57C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 47                                                                   |  | MISC. COM EQP & PWR                                                                                    | 57C       |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 48                                                                   |  | POLE LINE                                                                                              | 1C        |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 49                                                                   |  | CONDUIT                                                                                                | 4C        |         |           |                                                                                                                                       |              |         |           | \$0                                                                                                    | \$0   |                       |          |
| 50                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 51                                                                   |  | SPAN SUMMARY                                                                                           |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       | \$0                   | \$0      |
| 52                                                                   |  | CIRCUIT DESIGN SUMMARY                                                                                 |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       | \$0                   | \$0      |
| 53                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 54                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |
| 55                                                                   |  |                                                                                                        |           |         |           |                                                                                                                                       |              |         |           |                                                                                                        |       |                       |          |

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GC:\123R24\LCATR032\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellicore**LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:35COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - BUSINESS PBX  
TOTAL LOOP LENGTH: 27360 FEET

| Technology Type Mix : 0.00001 |      | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |              |           |         |          | TECHNOLOGY WEIGHTED |
|-------------------------------|------|---------------------------------------------------------------------|-----------|--------------|-----------|---------|----------|---------------------|
| PLANT NAME                    |      | FEEDER                                                              |           | DISTRIBUTION |           | NETWORK |          | TOTAL               |
| SEG. NAME                     |      | PRIMARY                                                             | EXTENSION | SUB-         | INTERFACE |         | LOOP     | LOOP                |
| EQPT                          |      |                                                                     |           |              |           |         |          |                     |
| CODE                          |      |                                                                     |           |              |           |         |          |                     |
| PLANT                         |      |                                                                     |           |              |           |         |          |                     |
| ITEM DESCRIPTION              |      |                                                                     |           |              |           |         |          |                     |
| SHARED RESOURCES              |      |                                                                     |           |              |           |         |          |                     |
| LAND                          | 20C  | \$ 0.03                                                             | \$ 0.00   | \$ 0.01      | \$ 0.00   | \$ 0.00 | \$ 0.04  | \$ 0.0000           |
| BUILDING                      | 10C  | \$ 0.85                                                             | \$ 0.00   | \$ 0.28      | \$ 0.00   | \$ 0.00 | \$ 1.13  | \$ 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  | \$ 0.36                                                             | \$ 0.00   | \$ 0.29      | \$ 0.00   | \$ 0.00 | \$ 0.65  | \$ 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  | \$ 3.02                                                             | \$ 0.00   | \$ 0.15      | \$ 8.10   | \$ 0.00 | \$ 11.27 | \$ 0.0000           |
| BURIED CABLE (COPPER)         | 45C  | \$ 0.21                                                             | \$ 0.00   | \$ 0.01      | \$ 8.30   | \$ 0.00 | \$ 8.52  | \$ 0.0000           |
| UNDERGROUND (CU) CA.          | 5C   | \$ 0.75                                                             | \$ 0.00   | \$ 0.03      | \$ 0.00   | \$ 0.00 | \$ 0.78  | \$ 0.0000           |
| CO EQPT - P GAIN TERM         | 257C | \$ 3.66                                                             | \$ 0.00   | \$ 0.00      | \$ 0.00   | \$ 0.00 | \$ 3.66  | \$ 0.0000           |
| CO EQPT - P GAIN CHAN         | 257C | \$ 7.98                                                             | \$ 0.00   | \$ 0.00      | \$ 0.00   | \$ 0.00 | \$ 7.98  | \$ 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   | \$ 0.72                                                             | \$ 0.00   | \$ 0.04      | \$ 0.00   | \$ 0.00 | \$ 0.76  | \$ 0.0000           |
| CONDUIT                       | 4C   | \$ 0.19                                                             | \$ 0.00   | \$ 0.01      | \$ 0.00   | \$ 0.00 | \$ 0.20  | \$ 0.0000           |
| SPAN SUMMARY                  |      | \$ 17.78                                                            | \$ 0.00   | \$ 0.82      | \$ 18.33  | \$ 2.45 | \$ 39.39 | \$ 0.00             |
| TECHNOLOGY DESIGN SUMMARY     |      |                                                                     |           |              |           |         |          |                     |
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| A<br>TIME<br>C<br>B<br>G |  | C:\123R24\LCATR032\RESULTS1<br>OUTPUT -- WORKSHEET D<br>SHEET 4 of 10                                  |           | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                                                                    |           |                                                                      |                      | Belcore <sup>®</sup><br>LCAT Rel: 1.0.4<br>Issued: 7/31/95 |          |
|--------------------------|--|--------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------|----------------------|------------------------------------------------------------|----------|
|                          |  | COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO<br>JOB IDENT: CINCINNATI |           | CIRCUIT DESIGN: 1 FOMUX<br>LOOP SPAN DIVISION: ALL LOOP SPANS<br>SERVICE CLASS: BAND 3 - BUSINESS PBX<br>TOTAL LOOP LENGTH: 27360 FEET |           | STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 28-Jan-97<br>TIME: 10:35 |                      |                                                            |          |
| 0                        |  | Circuit Design Mix: 0.0000                                                                             |           | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY                                                                             |           |                                                                      |                      |                                                            |          |
| 1                        |  | PLANT NAME                                                                                             | SEG. NAME | PRIMARY                                                                                                                                | EXTENSION | SUB-                                                                 | DISTRIBUTION NETWORK | TOTAL                                                      | WEIGHTED |
| 2                        |  | EQPT                                                                                                   |           |                                                                                                                                        |           |                                                                      | INTERFACE            | LOOP                                                       | TOTAL    |
| 3                        |  | PLANT                                                                                                  | CODE      |                                                                                                                                        |           |                                                                      |                      |                                                            |          |
| 4                        |  | ITEM DESCRIPTION                                                                                       |           |                                                                                                                                        |           |                                                                      |                      |                                                            |          |
| 5                        |  | <b>SHARED RESOURCES</b>                                                                                |           |                                                                                                                                        |           |                                                                      |                      |                                                            |          |
| 6                        |  | LAND                                                                                                   | 20C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 7                        |  | BUILDING                                                                                               | 10C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 8                        |  | BLDG ENTRANCE CABLE                                                                                    | 12C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 9                        |  | INTRABLDG CABLE                                                                                        | 52C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 10                       |  | AERIAL CABLE (COPPER)                                                                                  | 22C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 11                       |  | BURIED CABLE (COPPER)                                                                                  | 45C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 12                       |  | UNDERGROUND (CU) CA.                                                                                   | 5C        |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 13                       |  | CO EQPT - LOW CAP TERM                                                                                 | 257C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 14                       |  | CO EQPT - LOW CAP CHAN                                                                                 | 257C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 15                       |  | CO EQPT - HI CAP TERM                                                                                  | 857C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 16                       |  | CO EQPT - HI CAP CHAN                                                                                  | 857C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 17                       |  | CO EQPT - ANALOG SW                                                                                    | 77C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 18                       |  | CO EQPT - DIGITAL SW                                                                                   | 377C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 19                       |  | AERIAL CABLE (FIBER)                                                                                   | 822C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 20                       |  | BURIED CABLE (FIBER)                                                                                   | 845C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 21                       |  | UNDERGROUND (FO) CA.                                                                                   | 85C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 22                       |  | CONNECTORS                                                                                             | 57C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 23                       |  | MISC. COM EQP & PWR                                                                                    | 57C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 24                       |  | POLE LINE                                                                                              | 1C        |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 25                       |  | CONDUIT                                                                                                | 4C        |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 26                       |  | <b>DIRECT RESOURCES</b>                                                                                |           |                                                                                                                                        |           |                                                                      |                      |                                                            |          |
| 27                       |  | LAND                                                                                                   | 20C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 28                       |  | BUILDING                                                                                               | 10C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 29                       |  | BLDG ENTRANCE CABLE                                                                                    | 12C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 30                       |  | INTRABLDG CABLE                                                                                        | 52C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 31                       |  | AERIAL CABLE (COPPER)                                                                                  | 22C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 32                       |  | BURIED CABLE (COPPER)                                                                                  | 45C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 33                       |  | UNDERGROUND (CU) CA.                                                                                   | 5C        |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 34                       |  | CO EQPT - LOW CAP TERM                                                                                 | 257C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 35                       |  | CO EQPT - LOW CAP CHAN                                                                                 | 257C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 36                       |  | CO EQPT - HI CAP TERM                                                                                  | 857C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 37                       |  | CO EQPT - HI CAP CHAN                                                                                  | 857C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 38                       |  | CO EQPT - ANALOG SW                                                                                    | 77C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 39                       |  | CO EQPT - DIGITAL SW                                                                                   | 377C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 40                       |  | AERIAL CABLE (FIBER)                                                                                   | 822C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 41                       |  | BURIED CABLE (FIBER)                                                                                   | 845C      |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 42                       |  | UNDERGROUND (FO) CA.                                                                                   | 85C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 43                       |  | CONNECTORS                                                                                             | 57C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 44                       |  | MISC. COM EQP & PWR                                                                                    | 57C       |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 45                       |  | POLE LINE                                                                                              | 1C        |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 46                       |  | CONDUIT                                                                                                | 4C        |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 47                       |  | SPAN SUMMARY                                                                                           |           | \$0                                                                                                                                    | \$0       | \$0                                                                  |                      | \$0                                                        | \$0      |
| 48                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 49                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 50                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 51                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 52                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 53                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 54                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |
| 55                       |  |                                                                                                        |           |                                                                                                                                        |           |                                                                      |                      | \$0                                                        | \$0      |

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| C:\123R24\LCATR032\RESULTS1  |                        | LOOP COST ANALYSIS TOOL                                    |           |                      |           | Belcore <sup>®</sup> |          |
|------------------------------|------------------------|------------------------------------------------------------|-----------|----------------------|-----------|----------------------|----------|
| 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 3 - BUSINESS PBX                       |           | RUN DATE: 28-Jan-97  |           |                      |          |
| JOB IDENT: CINCINNATI        |                        | TOTAL LOOP LENGTH: 27360 FEET                              |           | TIME: 10:35          |           |                      |          |
| 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    |
| SEG. NAME                    |                        | PRIMARY                                                    | EXTENSION | SUB-                 | INTERFACE |                      | LOOP     |
| EQPT                         |                        |                                                            |           |                      |           |                      |          |
| CODE                         |                        |                                                            |           |                      |           |                      |          |
| PLANT                        |                        |                                                            |           |                      |           |                      |          |
| ITEM DESCRIPTION             |                        |                                                            |           |                      |           |                      |          |
| <b>SHARED RESOURCES</b>      |                        |                                                            |           |                      |           |                      |          |
| 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      |
| <b>DIRECT RESOURCES</b>      |                        |                                                            |           |                      |           |                      |          |
| 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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OUTPUT - WORKSHEET D  
SHEET 6 of 10

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

Bellcore (R)

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

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

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:35

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

|                        | PLANT NAME | FEEDER   | DISTRIBUTION NETWORK | TOTAL   | TOTAL     |          |          |
|------------------------|------------|----------|----------------------|---------|-----------|----------|----------|
|                        | SEG. NAME  | PRIMARY  | EXTENSION            | SUB--   | INTERFACE | LOOP     | LOOP     |
|                        | EQPT       |          |                      |         |           |          |          |
|                        | CODE       |          |                      |         |           |          |          |
| PLANT                  |            |          |                      |         |           |          |          |
| ITEM DESCRIPTION       |            |          |                      |         |           |          |          |
| SHARED RESOURCES       |            |          |                      |         |           |          |          |
| LAND                   | 20C        | \$ 0.03  |                      | \$ 0.01 | \$ 0.00   | \$ 0.04  | \$ 0.04  |
| BUILDING               | 10C        | \$ 1.00  |                      | \$ 0.28 | \$ 0.00   | \$ 1.28  | \$ 1.28  |
| 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        | \$ 0.44  |                      | \$ 0.29 | \$ 0.00   | \$ 0.73  | \$ 0.73  |
| POLE LINE              | 1C         | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| CONDUIT                | 4C         | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| DIRECT RESOURCES       |            |          |                      |         |           |          |          |
| LAND                   | 20C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| BUILDING               | 10C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| BLDG ENTRANCE CABLE    | 12C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 2.45  | \$ 2.45  |
| INTRABLDG CABLE        | 52C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (COPPER)  | 22C        | \$ 0.00  |                      | \$ 0.15 | \$ 8.10   | \$ 8.25  | \$ 8.25  |
| BURIED CABLE (COPPER)  | 45C        | \$ 0.00  |                      | \$ 0.01 | \$ 8.30   | \$ 8.31  | \$ 8.31  |
| UNDERGROUND (CU) CA.   | 5C         | \$ 0.00  |                      | \$ 0.03 | \$ 0.00   | \$ 0.03  | \$ 0.03  |
| CO EQPT - LOW CAP TERM | 257C       | \$ 2.94  |                      | \$ 0.00 | \$ 0.00   | \$ 2.94  | \$ 2.94  |
| CO EQPT - LOW CAP CHAN | 257C       | \$ 7.98  |                      | \$ 0.00 | \$ 0.00   | \$ 7.98  | \$ 7.98  |
| CO EQPT - HI CAP TERM  | 857C       | \$ 0.73  |                      | \$ 0.00 | \$ 0.00   | \$ 0.73  | \$ 0.73  |
| CO EQPT - HI CAP CHAN  | 857C       | \$ 1.23  |                      | \$ 0.00 | \$ 0.00   | \$ 1.23  | \$ 1.23  |
| CO EQPT - ANALOG SW    | 77C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| CO EQPT - DIGITAL SW   | 377C       | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (FIBER)   | 822C       | \$ 0.14  |                      | \$ 0.00 | \$ 0.00   | \$ 0.14  | \$ 0.14  |
| BURIED CABLE (FIBER)   | 845C       | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (FO) CA.   | 85C        | \$ 0.03  |                      | \$ 0.00 | \$ 0.00   | \$ 0.03  | \$ 0.03  |
| CONNECTORS             | 57C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| MISC. COM EQP & PWR    | 57C        | \$ 0.00  |                      | \$ 0.00 | \$ 0.00   | \$ 0.00  | \$ 0.00  |
| POLE LINE              | 1C         | \$ 0.04  |                      | \$ 0.04 | \$ 1.93   | \$ 2.01  | \$ 2.01  |
| CONDUIT                | 4C         | \$ 0.02  |                      | \$ 0.01 | \$ 0.00   | \$ 0.03  | \$ 0.03  |
| SPAN SUMMARY           |            | \$ 14.59 | \$ 0.00              | \$ 0.82 | \$ 18.33  | \$ 36.19 | \$ 36.19 |

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| C:\123R24\LCATR032\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 3 - BUSINESS PBX     |                      | RUN DATE: 28-Jan-97 |           |                 |      |
| JOB IDENT: CINCINNATI                                                                 |                         | TOTAL LOOP LENGTH: 27360 FEET            |                      | TIME: 10:35         |           |                 |      |
| Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |                         |                                          |                      |                     |           |                 |      |
|                                                                                       | PLANT NAME              | FEEDER                                   | DISTRIBUTION NETWORK | TOTAL               | WEIGHTED  |                 |      |
|                                                                                       | SEG. NAME               | PRIMARY                                  | EXTENSION            | SUB-                | INTERFACE | LOOP            | LOOP |
|                                                                                       | EQPT                    |                                          |                      |                     |           |                 |      |
|                                                                                       | PLANT CODE              |                                          |                      |                     |           |                 |      |
|                                                                                       | ITEM DESCRIPTION        |                                          |                      |                     |           |                 |      |
|                                                                                       | <u>SHARED RESOURCES</u> |                                          |                      |                     |           |                 |      |
|                                                                                       | LAND                    | 20C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | BUILDING                | 10C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | BLDG ENTRANCE CABLE     | 12C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | INTRABLDG CABLE         | 52C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | AERIAL CABLE (COPPER)   | 22C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | BURIED CABLE (COPPER)   | 45C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | UNDERGROUND (CU) CA.    | 5C                                       |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - LOW CAP TERM  | 257C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - LOW CAP CHAN  | 257C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - HI CAP TERM   | 857C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - HI CAP CHAN   | 857C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - ANALOG SW     | 77C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - DIGITAL SW    | 377C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | AERIAL CABLE (FIBER)    | 822C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | BURIED CABLE (FIBER)    | 845C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | UNDERGROUND (FO) CA.    | 85C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | CONNECTORS              | 57C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | MISC. COM EQP & PWR     | 57C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | POLE LINE               | 1C                                       |                      |                     |           | \$0             | \$0  |
|                                                                                       | CONDUIT                 | 4C                                       |                      |                     |           | \$0             | \$0  |
|                                                                                       | <u>DIRECT RESOURCES</u> |                                          |                      |                     |           |                 |      |
|                                                                                       | LAND                    | 20C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | BUILDING                | 10C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | BLDG ENTRANCE CABLE     | 12C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | INTRABLDG CABLE         | 52C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | AERIAL CABLE (COPPER)   | 22C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | BURIED CABLE (COPPER)   | 45C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | UNDERGROUND (CU) CA.    | 5C                                       |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - LOW CAP TERM  | 257C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - LOW CAP CHAN  | 257C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - HI CAP TERM   | 857C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - HI CAP CHAN   | 857C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - ANALOG SW     | 77C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | CO EQPT - DIGITAL SW    | 377C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | AERIAL CABLE (FIBER)    | 822C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | BURIED CABLE (FIBER)    | 845C                                     |                      |                     |           | \$0             | \$0  |
|                                                                                       | UNDERGROUND (FO) CA.    | 85C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | CONNECTORS              | 57C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | MISC. COM EQP & PWR     | 57C                                      |                      |                     |           | \$0             | \$0  |
|                                                                                       | POLE LINE               | 1C                                       |                      |                     |           | \$0             | \$0  |
|                                                                                       | CONDUIT                 | 4C                                       |                      |                     |           | \$0             | \$0  |
|                                                                                       | SPAN SUMMARY            | \$0                                      | \$0                  |                     |           | \$0             | \$0  |

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| C:\123R24\LCATR032\RESULTS1                                                           |                         | LOOP COST ANALYSIS TOOL                  |              |         |       | Bellicore (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 3 - BUSINESS PBX     |              |         |       | RUN DATE: 28-Jan-97 |  |
| JOB IDENT: CINCINNATI                                                                 |                         | TOTAL LOOP LENGTH: 27360 FEET            |              |         |       | TIME: 10:35         |  |
| Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |                         |                                          |              |         |       |                     |  |
|                                                                                       | PLANT NAME              | FEEDER                                   | DISTRIBUTION | NETWORK | TOTAL | WEIGHTED            |  |
|                                                                                       | SEG. NAME               | PRIMARY                                  | EXTENSION    | SUB-    | LOOP  | TOTAL               |  |
|                                                                                       | EQPT                    |                                          |              |         |       |                     |  |
|                                                                                       | CODE                    |                                          |              |         |       |                     |  |
|                                                                                       | PLANT                   |                                          |              |         |       |                     |  |
|                                                                                       | ITEM DESCRIPTION        |                                          |              |         |       |                     |  |
| 7                                                                                     | <u>SHARED RESOURCES</u> |                                          |              |         |       |                     |  |
| 8                                                                                     | LAND                    | 20C                                      |              |         | \$0   | \$0                 |  |
| 9                                                                                     | BUILDING                | 10C                                      |              |         | \$0   | \$0                 |  |
| 10                                                                                    | BLDG ENTRANCE CABLE     | 12C                                      |              |         | \$0   | \$0                 |  |
| 11                                                                                    | INTRABLDG CABLE         | 52C                                      |              |         | \$0   | \$0                 |  |
| 12                                                                                    | AERIAL CABLE (COPPER)   | 22C                                      |              |         | \$0   | \$0                 |  |
| 13                                                                                    | BURIED CABLE (COPPER)   | 45C                                      |              |         | \$0   | \$0                 |  |
| 14                                                                                    | UNDERGROUND (CU) CA.    | 5C                                       |              |         | \$0   | \$0                 |  |
| 15                                                                                    | CO EQPT - LOW CAP TERM  | 257C                                     |              |         | \$0   | \$0                 |  |
| 16                                                                                    | CO EQPT - LOW CAP CHAN  | 257C                                     |              |         | \$0   | \$0                 |  |
| 17                                                                                    | CO EQPT - HI CAP TERM   | 857C                                     |              |         | \$0   | \$0                 |  |
| 18                                                                                    | CO EQPT - HI CAP CHAN   | 857C                                     |              |         | \$0   | \$0                 |  |
| 19                                                                                    | CO EQPT - ANALOG SW     | 77C                                      |              |         | \$0   | \$0                 |  |
| 20                                                                                    | CO EQPT - DIGITAL SW    | 377C                                     |              |         | \$0   | \$0                 |  |
| 21                                                                                    | AERIAL CABLE (FIBER)    | 822C                                     |              |         | \$0   | \$0                 |  |
| 22                                                                                    | BURIED CABLE (FIBER)    | 845C                                     |              |         | \$0   | \$0                 |  |
| 23                                                                                    | UNDERGROUND (FO) CA.    | 85C                                      |              |         | \$0   | \$0                 |  |
| 24                                                                                    | CONNECTORS              | 57C                                      |              |         | \$0   | \$0                 |  |
| 25                                                                                    | MISC. COM EQP & PWR     | 57C                                      |              |         | \$0   | \$0                 |  |
| 26                                                                                    | POLE LINE               | 1C                                       |              |         | \$0   | \$0                 |  |
| 27                                                                                    | CONDUIT                 | 4C                                       |              |         | \$0   | \$0                 |  |
| 28                                                                                    |                         |                                          |              |         |       |                     |  |
| 29                                                                                    | <u>DIRECT RESOURCES</u> |                                          |              |         |       |                     |  |
| 30                                                                                    | LAND                    | 20C                                      |              |         | \$0   | \$0                 |  |
| 31                                                                                    | BUILDING                | 10C                                      |              |         | \$0   | \$0                 |  |
| 32                                                                                    | BLDG ENTRANCE CABLE     | 12C                                      |              |         | \$0   | \$0                 |  |
| 33                                                                                    | INTRABLDG CABLE         | 52C                                      |              |         | \$0   | \$0                 |  |
| 34                                                                                    | AERIAL CABLE (COPPER)   | 22C                                      |              |         | \$0   | \$0                 |  |
| 35                                                                                    | BURIED CABLE (COPPER)   | 45C                                      |              |         | \$0   | \$0                 |  |
| 36                                                                                    | UNDERGROUND (CU) CA.    | 5C                                       |              |         | \$0   | \$0                 |  |
| 37                                                                                    | CO EQPT - LOW CAP TERM  | 257C                                     |              |         | \$0   | \$0                 |  |
| 38                                                                                    | CO EQPT - LOW CAP CHAN  | 257C                                     |              |         | \$0   | \$0                 |  |
| 39                                                                                    | CO EQPT - HI CAP TERM   | 857C                                     |              |         | \$0   | \$0                 |  |
| 40                                                                                    | CO EQPT - HI CAP CHAN   | 857C                                     |              |         | \$0   | \$0                 |  |
| 41                                                                                    | CO EQPT - ANALOG SW     | 77C                                      |              |         | \$0   | \$0                 |  |
| 42                                                                                    | CO EQPT - DIGITAL SW    | 377C                                     |              |         | \$0   | \$0                 |  |
| 43                                                                                    | AERIAL CABLE (FIBER)    | 822C                                     |              |         | \$0   | \$0                 |  |
| 44                                                                                    | BURIED CABLE (FIBER)    | 845C                                     |              |         | \$0   | \$0                 |  |
| 45                                                                                    | UNDERGROUND (FO) CA.    | 85C                                      |              |         | \$0   | \$0                 |  |
| 46                                                                                    | CONNECTORS              | 57C                                      |              |         | \$0   | \$0                 |  |
| 47                                                                                    | MISC. COM EQP & PWR     | 57C                                      |              |         | \$0   | \$0                 |  |
| 48                                                                                    | POLE LINE               | 1C                                       |              |         | \$0   | \$0                 |  |
| 49                                                                                    | CONDUIT                 | 4C                                       |              |         | \$0   | \$0                 |  |
| 50                                                                                    |                         |                                          |              |         |       |                     |  |
| 51                                                                                    | SPAN SUMMARY            | \$0                                      | \$0          | \$0     | \$0   | \$0                 |  |
| 52                                                                                    |                         |                                          |              |         |       |                     |  |
| 53                                                                                    |                         |                                          |              |         |       |                     |  |
| 54                                                                                    |                         |                                          |              |         |       |                     |  |
| 55                                                                                    |                         |                                          |              |         |       |                     |  |

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OUTPUT - WORKSHEET D  
SHEET 10 of 10LOOP COST ANALYSIS TOOL  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - BUSINESS PBX  
TOTAL LOOP LENGTH: 27360 FEETLCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:35

| 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   |           |
| PLANT                        | SEG. NAME | PRIMARY                                                             | EXTENSION | SUB-                 | INTERFACE | LOOP    | TOTAL LOOP |           |
| EQPT                         |           |                                                                     |           |                      |           |         |            |           |
| PLANT CODE                   |           |                                                                     |           |                      |           |         |            |           |
| ITEM DESCRIPTION             |           |                                                                     |           |                      |           |         |            |           |
| <b>SHARED RESOURCES</b>      |           |                                                                     |           |                      |           |         |            |           |
| LAND                         | 20C       | \$ 0.03                                                             | \$ 0.00   | \$ 0.01              | \$ 0.00   | \$ 0.00 | \$ 0.04    | \$ 0.0437 |
| BUILDING                     | 10C       | \$ 1.00                                                             | \$ 0.00   | \$ 0.28              | \$ 0.00   | \$ 0.00 | \$ 1.28    | \$ 1.2810 |
| 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       | \$ 0.44                                                             | \$ 0.00   | \$ 0.29              | \$ 0.00   | \$ 0.00 | \$ 0.73    | \$ 0.7333 |
| 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 |
| <b>DIRECT RESOURCES</b>      |           |                                                                     |           |                      |           |         |            |           |
| 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   | \$ 0.15              | \$ 8.10   | \$ 0.00 | \$ 8.25    | \$ 8.2500 |
| BURIED CABLE (COPPER)        | 45C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.01              | \$ 8.30   | \$ 0.00 | \$ 8.31    | \$ 8.3100 |
| UNDERGROUND (CU) CA.         | 5C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.03              | \$ 0.00   | \$ 0.00 | \$ 0.03    | \$ 0.0300 |
| CO EQPT - LOW CAP TERM       | 257C      | \$ 2.94                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 2.94    | \$ 2.9436 |
| CO EQPT - LOW CAP CHAN       | 257C      | \$ 7.98                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 7.98    | \$ 7.9833 |
| CO EQPT - HI CAP TERM        | 857C      | \$ 0.73                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.73    | \$ 0.7268 |
| CO EQPT - HI CAP CHAN        | 857C      | \$ 1.23                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 1.23    | \$ 1.2325 |
| CO EQPT - ANALOG SW          | 77C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00    | \$ 0.0000 |
| CO EQPT - DIGITAL SW         | 377C      | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00    | \$ 0.0000 |
| AERIAL CABLE (FIBER)         | 822C      | \$ 0.14                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.14    | \$ 0.1403 |
| BURIED CABLE (FIBER)         | 845C      | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00    | \$ 0.0000 |
| UNDERGROUND (FO) CA.         | 85C       | \$ 0.03                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.03    | \$ 0.0300 |
| 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        | \$ 0.04                                                             | \$ 0.00   | \$ 0.04              | \$ 1.93   | \$ 0.00 | \$ 2.01    | \$ 2.0052 |
| CONDUIT                      | 4C        | \$ 0.02                                                             | \$ 0.00   | \$ 0.01              | \$ 0.00   | \$ 0.00 | \$ 0.03    | \$ 0.0268 |
| SPAN SUMMARY                 |           | \$ 14.59                                                            | \$ 0.00   | \$ 0.82              | \$ 18.33  | \$ 2.45 | \$ 36.19   | \$ 36.19  |

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Bellcore (R)

RUN - DIST PLNT

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LAST UPDATE

28-Jan-97

09:07

## LOOP COST ANALYSIS TOOL

Release: 1.0.4

Issued: 8/31/95

## DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 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 | ANN COST |

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DIST. PLNT - WORKSHEET A  
Sheet 1 of 3

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

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

LCAT Release: 1.0.4  
Issue Date: 8/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:30

| SEGMENT LENGTH<br>IN FEET                                                                  | TYPE OF<br>CABLE<br>PLANT | FROM<br>TABLE 2 -<br>RELATIVE<br>MIX OF<br>TYPE OF<br>CA. PLANT<br>[B] | LENGTH<br>SUBSET<br>BY TYPE<br>OF PLANT<br>[C=A*B] | FROM<br>TABLE 4 -<br>CABLE<br>INVESTMENT<br>PER<br>PAIR FOOT<br>[D] | CABLE<br>INVESTMENT<br>PER PAIR<br>[E=C*D] | (NOTE 4)<br>WEIGHTED<br>TERMINAL<br>INVESTMENT | AIR DRYER<br>INVESTMENT<br>PER PAIR<br>[F=E*fcdr] | DROP WIRE<br>ADJUSTMENT<br>PER PAIR<br>[F=E*fcdr] | (NOTE 4)<br>WEIGHTED<br>DROP WIRE<br>INVESTMENT |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|
| 3479.0                                                                                     | AERIAL                    | 0.580000                                                               | 2017.8                                             | 0.041800                                                            | 84.34                                      |                                                | 0.00                                              | 0.00                                              |                                                 |  |  |  |  |  |  |  |  |
| CONSIDERS:<br>MELED<br>COPPER<br>CABLE                                                     | BURIED                    | 0.420000                                                               | 1461.2                                             | 0.068800                                                            | 100.53                                     |                                                | 0.00                                              | 0.00                                              |                                                 |  |  |  |  |  |  |  |  |
|                                                                                            | UNDERGRND                 | 0.000000                                                               | 0.0                                                | 0.000000                                                            | 0.00                                       |                                                | 0.00                                              | 0.00                                              |                                                 |  |  |  |  |  |  |  |  |
| Check =                                                                                    |                           | 1.000000                                                               | 3479.0                                             |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| OUTSIDE PLANT LOADINGS                                                                     |                           | (NOTE 4)                                                               |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| DROP WIRE ADJUSTMENT:                                                                      |                           | AIR DRYER LOADINGS:                                                    |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| AERIAL CA. =                                                                               |                           | 0.0000                                                                 | AERIAL CA. =                                       |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| BURIED CA. =                                                                               |                           | 0.0000                                                                 | BURIED CA. =                                       |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| UNDERGRND =                                                                                |                           | 0.0000                                                                 | UNDERGRND =                                        |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| OTHER INVESTMENT                                                                           |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| POLE LINE FACTOR (PLF) =                                                                   |                           | inv / unit lenth:                                                      |                                                    | inv rtm fcdr:                                                       |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =                                         |                           | 0.0000                                                                 |                                                    | 0.2539                                                              |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| UG CONDUIT FACTOR (UCF) =                                                                  |                           | 0.0000                                                                 |                                                    | 0.0000                                                              |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =                                            |                           | \$ 0.00                                                                |                                                    | \$ 0.00                                                             |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| FOOTNOTES                                                                                  |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                              |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.                                      |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO  |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |
| (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)                                        |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |  |  |  |  |  |  |  |  |

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| C:\123R24\LCAT\CALC\DIST<br>DIST_PLNT - WORKSHEET A<br>Sheet 3 of 3            |                                                                     |                                  | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE AND ANNUAL COSTS WORKSHEET<br>SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL<br>FACILITY TYPE : COPPER CABLE<br>CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC-NON-COLLOC)<br>SERVICE CLASS : BAND 3 - BUSINESS PBX |                                  |                          |                                         |                                  |                                                    | Bellcore (R)<br>LCAT Release : 1.0.4<br>Issue Date : 6/31/95<br>STUDY YR : 1996<br>TEST CASE : 1<br>RUN DATE : 25-Jan-97<br>TIME : 10:30 |  |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|-----------------------------------------|----------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                     |                                  | 1996 UNIT<br>LOOP INVESTMENT<br>BY ACCOUNT                                                                                                                                                                                                                                      |                                  | ANNUAL<br>COST<br>FACTOR | 1996 UNIT<br>ANNUAL COSTS<br>BY ACCOUNT |                                  | 1996 UNIT<br>MONTHLY RECURRING COSTS<br>BY ACCOUNT |                                                                                                                                          |  |
| PLANT ITEM                                                                     | PLANT<br>ACCT<br>CODE                                               | 1996<br>TO<br>1996<br>TPI<br>[L] | SHARED<br>RESOURCES<br>[M=K*L]                                                                                                                                                                                                                                                  | DIRECT<br>RESOURCES<br>[M'=K'*L] |                          | SHARED<br>RESOURCES<br>[P=M*N]          | DIRECT<br>RESOURCES<br>[P'=M'*N] | SHARED<br>RESOURCES<br>[R=P/12]                    | DIRECT<br>RESOURCES<br>[R'=P'/12]                                                                                                        |  |
| 8                                                                              | LAND                                                                | 20C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2322                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 9                                                                              | BUILDING                                                            | 10C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2937                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 10                                                                             | BLDG ENTRANCE CABLE                                                 | 12C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3922                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 11                                                                             | INTRABLDG CABLE                                                     | 52C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3922                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 12                                                                             | AERIAL CABLE (COPPER)                                               | 22C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 241                   |                                         | \$ 97.19                         |                                                    | \$ 8.10                                                                                                                                  |  |
| 13                                                                             | BURIED CABLE (COPPER)                                               | 45C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 287                   |                                         | \$ 99.58                         |                                                    | \$ 8.30                                                                                                                                  |  |
| 14                                                                             | UNDERGROUND (CU) CA.                                                | 5C                               | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3653                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 15                                                                             | CO EQPT - P GAIN TERM                                               | 257C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3881                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 16                                                                             | CO EQPT - P GAIN CHAN                                               | 257C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3881                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 17                                                                             | CO EQPT - FO MUX TERM                                               | 857C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3881                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 18                                                                             | CO EQPT - FO MUX CHAN                                               | 857C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3881                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 19                                                                             | CO EQPT - ANALOG SW                                                 | 77C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.0000                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 20                                                                             | CO EQPT - DIGITAL SW                                                | 377C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3458                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 21                                                                             | AERIAL CABLE (FIBER)                                                | 822C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2983                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 22                                                                             | BURIED CABLE (FIBER)                                                | 845C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2724                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 23                                                                             | UNDERGROUND (FO) CA.                                                | 85C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2689                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 24                                                                             | CONNECTORS                                                          | 57C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3881                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 25                                                                             | MISC. COM EQP & PWR                                                 | 57C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3881                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 26                                                                             | POLE LINE                                                           | 1C                               | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 61                    |                                         |                                  |                                                    | \$ 1.93                                                                                                                                  |  |
| 27                                                                             | CONDUIT                                                             | 4C                               | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2521                   |                                         |                                  |                                                    |                                                                                                                                          |  |
| 28                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 29                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 30                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 31                                                                             | TOTALS                                                              |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 32                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 33                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 34                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 35                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 36                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 37                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 38                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 39                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 40                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 41                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 42                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 43                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 44                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 45                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 46                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 47                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 48                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 49                                                                             | FOOTNOTES                                                           |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 50                                                                             | NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.       |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 51                                                                             | NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION. |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 52                                                                             | THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.            |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 53                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 54                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |
| 55                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                          |                                         |                                  |                                                    |                                                                                                                                          |  |

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dstshrinv    dstshrinv  
=====

\$ 0    \$ 589  
\$ 589

dstshrinv

dstshrinv    dstshrinv  
=====

\$ 0.00    \$ 18.33  
\$ 219.98    \$ 18.33

dstshrinv    dstshrinv

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DM123R24/LCAT/CALC/DIST  
DIST\_PLNT - WORKSHEET B  
Sheet 1 of 3

**LOOP COST ANALYSIS TOOL**  
BASIC INVESTMENT WORKSHEET

Bellcore<sup>®</sup>

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

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

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

1996  
1  
28-Jan-97  
10:30

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

POLE LINE FACTOR (PLF) =

from length: 0.0000

from invest.: 0.2530

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

\$ 0.00

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## FOOTNOTES

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

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

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| LOOP COST ANALYSIS TOOL                                                                                                                                                                                                                                                                                   |                 |                     |                                 |                  |                                             |                        |                                             |        |         | Bellicore <sup>®</sup> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|---------------------------------|------------------|---------------------------------------------|------------------------|---------------------------------------------|--------|---------|------------------------|--|
| ACCOUNT INVESTMENT WORKSHEET                                                                                                                                                                                                                                                                              |                 |                     |                                 |                  |                                             |                        |                                             |        |         | LCAT                   |  |
| DIST. PLANT - WORKSHEET B                                                                                                                                                                                                                                                                                 |                 |                     |                                 |                  |                                             |                        |                                             |        |         | Release: 1.0.4         |  |
| Sheet 2 of 3                                                                                                                                                                                                                                                                                              |                 |                     |                                 |                  |                                             |                        |                                             |        |         | STUDY YR: 1996         |  |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                                                                                                                                             |                 |                     |                                 |                  |                                             |                        |                                             |        |         | TEST CASE: 1           |  |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                                   |                 |                     |                                 |                  |                                             |                        |                                             |        |         | RUN DATE: 28-Jan-97    |  |
| STATE / PROV: OHIO                                                                                                                                                                                                                                                                                        |                 |                     |                                 |                  |                                             |                        |                                             |        |         | TIME: 10:30            |  |
| FACILITY TYPE: COPPER CABLE                                                                                                                                                                                                                                                                               |                 |                     |                                 |                  |                                             |                        |                                             |        |         |                        |  |
| CIRCUIT SEGMENT: SERVICE ACCESS                                                                                                                                                                                                                                                                           |                 |                     |                                 |                  |                                             |                        |                                             |        |         |                        |  |
| SERVICE CLASS: BAND 3 - BUSINESS PBX                                                                                                                                                                                                                                                                      |                 |                     |                                 |                  |                                             |                        |                                             |        |         |                        |  |
| 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 |        |         |                        |  |
|                                                                                                                                                                                                                                                                                                           |                 | VARI ALLOCATION     | COST EQUATION                   | [F]              | [G]                                         | [H=F*G]                | [I=H*G]                                     | [J]    | [K=H/J] |                        |  |
| LAND                                                                                                                                                                                                                                                                                                      | 20C             | F SHARED            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| BUILDING                                                                                                                                                                                                                                                                                                  | 10C             | F SHARED            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| BLDG ENTRANCE CABLE                                                                                                                                                                                                                                                                                       | 12C             | V DIRECT            | 75.00                           | 1                |                                             | \$ 75                  |                                             | 1.0000 | \$ 75   |                        |  |
| INTRABLDG CABLE                                                                                                                                                                                                                                                                                           | 52C             | V DIRECT            | 0.00                            |                  |                                             |                        |                                             | 0.3500 |         |                        |  |
| AERIAL CABLE (COPPER)                                                                                                                                                                                                                                                                                     | 22C             | V DIRECT            | 0.00                            |                  |                                             |                        |                                             | 0.3500 |         |                        |  |
| BURIED CABLE (COPPER)                                                                                                                                                                                                                                                                                     | 45C             | V DIRECT            | 0.00                            |                  |                                             |                        |                                             | 0.3500 |         |                        |  |
| UNDERGROUND (CU) CA.                                                                                                                                                                                                                                                                                      | 5C              | V DIRECT            |                                 |                  |                                             |                        |                                             | 0.3500 |         |                        |  |
| CO EQPT - P GAIN TERM                                                                                                                                                                                                                                                                                     | 257C            | F DIRECT            |                                 |                  |                                             |                        |                                             | 0.7000 |         |                        |  |
| CO EQPT - P GAIN CHAN                                                                                                                                                                                                                                                                                     | 257C            | V DIRECT            |                                 |                  |                                             |                        |                                             | 0.7000 |         |                        |  |
| CO EQPT - FO MUX TERM                                                                                                                                                                                                                                                                                     | 857C            | F DIRECT            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| CO EQPT - FO MUX CHAN                                                                                                                                                                                                                                                                                     | 857C            | F DIRECT            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| CO EQPT - ANALOG SW                                                                                                                                                                                                                                                                                       | 77C             | V DIRECT            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| CO EQPT - DIGITAL SW                                                                                                                                                                                                                                                                                      | 377C            | V DIRECT            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| AERIAL CABLE (FIBER)                                                                                                                                                                                                                                                                                      | 822C            | F DIRECT            |                                 |                  |                                             |                        |                                             | 0.0000 |         |                        |  |
| BURIED CABLE (FIBER)                                                                                                                                                                                                                                                                                      | 845C            | F DIRECT            |                                 |                  |                                             |                        |                                             | 0.0000 |         |                        |  |
| UNDERGROUND (FO) CA.                                                                                                                                                                                                                                                                                      | 85C             | F DIRECT            |                                 |                  |                                             |                        |                                             | 0.0000 |         |                        |  |
| CONNECTORS                                                                                                                                                                                                                                                                                                | 57C             | V DIRECT            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| MISC. COM EQP & PWR                                                                                                                                                                                                                                                                                       | 57C             | V SHARED            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| POLE LINE                                                                                                                                                                                                                                                                                                 | 1C              | F DIRECT            | 0.00                            |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| CONDUIT                                                                                                                                                                                                                                                                                                   | 4C              | F DIRECT            |                                 |                  |                                             |                        |                                             | 1.0000 |         |                        |  |
| <p><b>CONFIDENTIAL</b></p> <p>NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC</p> <p>PROVIDED TO PUCO</p> <p>botmivv</p>                                                                                                                                                                                  |                 |                     |                                 |                  |                                             |                        |                                             |        |         |                        |  |
| <p>FOOTNOTES</p> <p>NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H) ARE CAUSED BY COMPUTER ROUNDING.</p> <p>NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.</p> <p>AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;</p> <p>CO EQPT - ESS = CONNECTORS + MISC. CP&amp;E.</p> |                 |                     |                                 |                  |                                             |                        |                                             |        |         |                        |  |

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

**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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

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

Belcore®  
LCAT  
Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:30

| 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               |                                      |                            | 0.2963                 |                                   |                            |                                              |                             |
| BURIED CABLE (FIBER)  | 845C            | 1.0000               |                                      |                            | 0.2724                 |                                   |                            |                                              |                             |
| UNDERGROUND (FO) CA.  | 85C             | 1.0000               |                                      |                            | 0.2669                 |                                   |                            |                                              |                             |
| CONNECTORS            | 57C             | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| MISC. COM EQP & PWR   | 57C             | 1.0000               |                                      |                            | 0.3881                 |                                   |                            |                                              |                             |
| POLE LINE             | 1C              | 1.0000               |                                      |                            | 0.3807                 |                                   |                            |                                              |                             |
| CONDUIT               | 4C              | 1.0000               |                                      |                            | 0.2521                 |                                   |                            |                                              |                             |
| TOTALS                |                 |                      | \$ 0                                 | \$ 75                      |                        | \$ 29.42                          | \$ 0.00                    | \$ 2.45                                      | \$ 2.45                     |

botshrnv      botdirnv  
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\$ 0      \$ 75  
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botinvsy

botshrnv      botdirnv  
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\$ 29.42      \$ 0.00      \$ 2.45  
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botinvsy      botinvsy      botinvsy

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

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DIST\_PLNT - 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 3 - BUSINESS FBX

Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:30

| PLANT ITEM            | PLANT ACCT CODE | CAT. FIXED RESOURCE | 1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F] | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION |                           | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION |                            |
|-----------------------|-----------------|---------------------|---------------------------------------------------|----------------------|---------------------------------------------|---------------------------|----------------------------|---------------------------------------------|----------------------------|
|                       |                 |                     |                                                   |                      | 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                                              |                      |                                             |                           | 0.0000                     |                                             |                            |
| CONDUIT               | 4C              | F DIRECT            |                                                   |                      |                                             |                           | 1.0000                     |                                             |                            |
|                       |                 |                     |                                                   |                      |                                             |                           |                            | \$ 0                                        | \$ 75                      |
|                       |                 |                     |                                                   |                      |                                             |                           |                            |                                             | \$ 75                      |

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

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| CA123R24LCATCALC/DIST<br>DIST PLNT - WORKSHEET B<br>Sheet 3 of 3               |                 |                      | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE AND ANNUAL COSTS WORKSHEET                                      |                            |                        |                                                                                        |                            |                                              | Bellcore®                   |  |
|--------------------------------------------------------------------------------|-----------------|----------------------|--------------------------------------------------------------------------------------------------------|----------------------------|------------------------|----------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|-----------------------------|--|
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 |                      | FACILITY TYPE: COPPER CABLE<br>CIRCUIT SEGMENT: SERVICE ACCESS<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |                            |                        | Release: 1.0.4<br>STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 28-Jan-97<br>TIME: 10:30 |                            |                                              |                             |  |
| 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                                                                         |                 |                      | botshnmv botdirmv                                                                                      |                            | botshnmv botdirmv      |                                                                                        | botshnmv botdirmv          |                                              | botshnmv botdirmv           |  |
|                                                                                |                 |                      | \$ 0 \$ 75                                                                                             |                            | \$ 0.00 \$ 29.42       |                                                                                        | \$ 0.00 \$ 2.45            |                                              | \$ 0.00 \$ 2.45             |  |
|                                                                                |                 |                      | botinvsy                                                                                               |                            | botinvsy               |                                                                                        | botinvsy                   |                                              | botinvsy                    |  |

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**FOOTNOTES**  
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.  
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| CA123R24\LCATCALC.DIST                           |                       |      |         | LOOP COST ANALYSIS TOOL                                   |         |         |         | Bellicore (R)       |          |
|--------------------------------------------------|-----------------------|------|---------|-----------------------------------------------------------|---------|---------|---------|---------------------|----------|
| DIST. PLNT - REPORT 14A                          |                       |      |         | 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 TYPE: COPPER CABLE                               |         |         |         | STUDY YR: 1995      |          |
| STATE / PROV: OHIO                               |                       |      |         | CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC) |         |         |         | TEST CASE: 1        |          |
|                                                  |                       |      |         | SERVICE CLASS: BAND 3 - BUSINESS PBX                      |         |         |         | RUN DATE: 28-Jan-97 |          |
|                                                  |                       |      |         |                                                           |         |         |         | TIME: 10:30         |          |
| logic-14a                                        |                       |      |         | 1995 UNIT MONTHLY RECURRING COST BY ACCOUNT               |         |         |         | (See Note)          |          |
|                                                  |                       |      |         | 0                                                         |         |         |         | TOTAL               |          |
|                                                  |                       |      |         | 1.0000                                                    |         |         |         | AVG. WEIGHTED       |          |
|                                                  |                       |      |         | 27360                                                     |         |         |         | INVESTMENT          |          |
|                                                  |                       |      |         | 3479.0                                                    |         |         |         | 3479                |          |
| SHARED RESOURCES                                 |                       |      |         |                                                           |         |         |         |                     |          |
| 7                                                | LAND                  | 20C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 8                                                | BUILDING              | 10C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 9                                                | BLDG ENTRANCE CABLE   | 12C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 10                                               | INTRABLDG CABLE       | 52C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 11                                               | AERIAL CABLE (COPPER) | 22C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 12                                               | BURIED CABLE (COPPER) | 45C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 13                                               | UNDERGROUND (CU) CA.  | 5C   |         |                                                           |         |         |         |                     | \$ 0.00  |
| 14                                               | CO EQPT - P GAIN TERM | 257C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 15                                               | CO EQPT - P GAIN CHAN | 257C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 16                                               | CO EQPT - FO MUX TERM | 857C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 17                                               | CO EQPT - FO MUX CHAN | 857C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 18                                               | CO EQPT - ANALOG SW   | 77C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 19                                               | CO EQPT - DIGITAL SW  | 377C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 20                                               | AERIAL CABLE (FIBER)  | 822C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 21                                               | BURIED CABLE (FIBER)  | 845C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 22                                               | UNDERGROUND (FO) CA.  | 85C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 23                                               | CONNECTORS            | 57C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 24                                               | MISC. COM EQP & PWR   | 57C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 25                                               | POLE LINE             | 1C   |         |                                                           |         |         |         |                     | \$ 0.00  |
| 26                                               | CONDUIT               | 4C   |         |                                                           |         |         |         |                     | \$ 0.00  |
| DIRECT RESOURCES                                 |                       |      |         |                                                           |         |         |         |                     |          |
| 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  | \$ 8.10 |                                                           |         |         |         |                     | \$ 8.10  |
| 34                                               | BURIED CABLE (COPPER) | 45C  | \$ 8.30 |                                                           |         |         |         |                     | \$ 8.30  |
| 35                                               | UNDERGROUND (CU) CA.  | 5C   |         |                                                           |         |         |         |                     | \$ 0.00  |
| 36                                               | CO EQPT - P GAIN TERM | 257C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 37                                               | CO EQPT - P GAIN CHAN | 257C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 38                                               | CO EQPT - FO MUX TERM | 857C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 39                                               | CO EQPT - FO MUX CHAN | 857C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 40                                               | CO EQPT - ANALOG SW   | 77C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 41                                               | CO EQPT - DIGITAL SW  | 377C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 42                                               | AERIAL CABLE (FIBER)  | 822C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 43                                               | BURIED CABLE (FIBER)  | 845C |         |                                                           |         |         |         |                     | \$ 0.00  |
| 44                                               | UNDERGROUND (FO) CA.  | 85C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 45                                               | CONNECTORS            | 57C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 46                                               | MISC. COM EQP & PWR   | 57C  |         |                                                           |         |         |         |                     | \$ 0.00  |
| 47                                               | POLE LINE             | 1C   | \$ 1.93 |                                                           |         |         |         |                     | \$ 1.93  |
| 48                                               | CONDUIT               | 4C   |         |                                                           |         |         |         |                     | \$ 0.00  |
| SPAN SUMMARY                                     |                       |      |         | \$ 18.33                                                  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00             | \$ 0.00  |
| AVG. WTD. SPAN SUMMARY                           |                       |      |         | \$ 18.33                                                  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00             | \$ 0.00  |
| NOTE: [sum(INV <sub>ACCT</sub> BAND * MIX BAND)] |                       |      |         |                                                           |         |         |         |                     | \$ 18.33 |

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## LOOP COST ANALYSIS TOOL

Bellcore<sup>(R)</sup>

DIST\_PLANT - REPORT 14B

## PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

LCAT

Sheet 1 of 1

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

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - BUSINESS PBX

Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:30

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

| PLANT ITEM              | PLANT<br>ACCT<br>CODE | BAND<br>MIX<br>AVG.<br>LGTH. | ALL |
|-------------------------|-----------------------|------------------------------|-----|
| <b>SHARED RESOURCES</b> |                       |                              |     |
| 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                    |                              |     |
| <b>DIRECT RESOURCES</b> |                       |                              |     |
| 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

28-Jan-97

09:08

**LOOP COST ANALYSIS TOOL****Bellcore<sup>(n)</sup>**

LCAT

Release: 1.0.4

Issued: 7/31/95

**FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY****STUDY NAME:** 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 18001 FEET - INFINITY IN**CURRENT TEST PLAN :** CURRENT JOB IDENT. CINCINNATI

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

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CA123R24\LCATCALC\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: SAND 3 - BUSINESS PBX

Bellicore<sup>TM</sup>  
LCAT Release: 1.0.4  
Issue Date: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 28-Jan-97  
TIME: 10:31

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

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

23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS  
24 INVESTMENT PER CIRCUIT TERMINATION  
25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00  
26  $\text{inv} / \text{unit lgh} : \text{inv rdn} : \text{fcfr} :$   
27 POLE LINE FACTOR = 0.000000 0.253000  
28 POLE LINE INVESTMENT = \$ 1.16  
29 (UTIL AERIAL INVEST x PL)  
30  
31 UG CONDUIT FACTOR = 0.000000 0.516500  
32 CONDUIT INVESTMENT = \$ 0.46  
33 (UTIL UNDGRND INVEST x UC)  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46

MISC. COMMON EQPT. & POWER FACTOR = 0.112700  
MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 8.91  
LAND FACTOR = 0.00560  
LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.49  
BUILDING FACTOR = 0.13160  
BLDG NVST (CO CONN + MCEP) x FACTOR = \$ 1.58  
PERCENT OF CO CONN AT DIGITAL SWITCHES 100.0000  
PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000

47 FOOTNOTES  
48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.  
49 NOTE 2: E \* fcfr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)  
50 NOTE 3: UI \* DTC = UNIT INVESTMENT x PROBABILITY OF OCCURRENCE.  
51 NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).  
52  
53  
54  
55

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| G:\123R24\LCAT\CALC\OUTECH                                                                     |                 | LOOP COST ANALYSIS TOOL                                |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            |       | Bellcore (P)        |  |
|------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------|-----------------------|---------------------------------------------------|----------------------|----------------------------------------------------------------------|---------------------------|----------------------------|----------------------------------------------------------------------|----------------------------|-------|---------------------|--|
| SUB PRI - 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: 1995      |  |
| CITY/AREA: CINCINNATI                                                                          |                 | CIRCUIT SEGMENT: WELDED GAUGE/S/ SUB-PRIMARY           |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            |       | TEST CASE: 1        |  |
| STATE/PROV: OHIO                                                                               |                 | SERVICE CLASS: BAND 3 - BUSINESS PBX                   |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            |       | RUN DATE: 28-Jan-97 |  |
|                                                                                                |                 |                                                        |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            |       | TIME: 10:31         |  |
| PLANT ITEM                                                                                     | PLANT ACCT CODE | FIXED VARI CAT.                                        | RESOURCE ALLOCATION T | 1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F] | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G] | DIRECT RESOURCES [H'=F*G] | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J] | DIRECT RESOURCES [K'=H'/J] |       |                     |  |
| LAND                                                                                           | 20C             | F                                                      | SHARED                | 0.49                                              | 1                    | \$ 0                                                                 |                           | 1.0000                     | \$ 0                                                                 |                            |       |                     |  |
| BUILDING                                                                                       | 10C             | F                                                      | SHARED                | 11.55                                             | 1                    | \$ 12                                                                |                           | 1.0000                     | \$ 12                                                                |                            |       |                     |  |
| BLDG ENTRANCE CABLE                                                                            | 12C             | V                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| INTRABLDG CABLE                                                                                | 52C             | V                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 0.3500                     |                                                                      |                            |       |                     |  |
| AERIAL CABLE (COPPER)                                                                          | 22C             | V                                                      | DIRECT                | 2.75                                              | 1                    |                                                                      | \$ 3                      | 0.6000                     |                                                                      | \$ 5                       |       |                     |  |
| BURIED CABLE (COPPER)                                                                          | 45C             | V                                                      | DIRECT                | 0.23                                              | 1                    |                                                                      | \$ 0                      | 0.6000                     |                                                                      | \$ 0                       |       |                     |  |
| UNDERGROUND (CU) CA.                                                                           | 5C              | V                                                      | DIRECT                | 0.54                                              | 1                    |                                                                      | \$ 1                      | 0.6000                     |                                                                      | \$ 1                       |       |                     |  |
| CO EQPT - LOW CAP TERM                                                                         | 257C            | F                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 0.7000                     |                                                                      |                            |       |                     |  |
| CO EQPT - LOW CAP CHAN                                                                         | 257C            | V                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 0.7000                     |                                                                      |                            |       |                     |  |
| CO EQPT - HI CAP TERM                                                                          | 857C            | F                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| CO EQPT - HI CAP CHAN                                                                          | 857C            | F                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| CO EQPT - ANALOG SW                                                                            | 77C             | V                                                      | DIRECT                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| CO EQPT - DIGITAL SW                                                                           | 377C            | V                                                      | DIRECT                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| AERIAL CABLE (FIBER)                                                                           | 822C            | F                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 0.3300                     |                                                                      |                            |       |                     |  |
| BURIED CABLE (FIBER)                                                                           | 845C            | F                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 0.3300                     |                                                                      |                            |       |                     |  |
| UNDERGROUND (FO) CA.                                                                           | 85C             | F                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 0.3300                     |                                                                      |                            |       |                     |  |
| CONNECTORS                                                                                     | 57C             | V                                                      | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| MISC. COM EQP & PWR                                                                            | 57C             | V                                                      | SHARED                | 8.91                                              | 1                    | \$ 9                                                                 |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| POLE LINE                                                                                      | 1C              | F                                                      | DIRECT                | 1.16                                              | 1                    |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| CONDUIT                                                                                        | 4C              | F                                                      | DIRECT                | 0.46                                              | 1                    |                                                                      |                           | 1.0000                     |                                                                      |                            |       |                     |  |
| TOTALS                                                                                         |                 |                                                        |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            | \$ 7  |                     |  |
| FOOTNOTES                                                                                      |                 |                                                        |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            | \$ 28 |                     |  |
| 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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|-------------------------------|-----------------|----------------------|--------------------------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-----------------------------|--|
| SLS_PRI - WORKSHEET           |                 |                      | PROSPECTIVE AND ANNUAL COSTS WORKSHEET                 |                            |                        |                                   |                            |                                              | LCAT Release: 1.0.4         |  |
| Sheet 1 of 3                  |                 |                      | CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS |                            |                        |                                   |                            |                                              | Issue Date: 7/31/95         |  |
| COMPANY: CINCINNATI BELL TEL. |                 |                      | FACILITY TYPE: COPPER CABLE                            |                            |                        |                                   |                            |                                              | STUDY YR: 1996              |  |
| CITY / AREA: CINCINNATI       |                 |                      | CIRCUIT SEGMENT: <u>NEEDED GAUGE/S/ SUB-PRIMARY</u>    |                            |                        |                                   |                            |                                              | TEST CASE: 1                |  |
| STATE / PROV: OHIO            |                 |                      | SERVICE CLASS: BAND 3 - BUSINESS PBX                   |                            |                        |                                   |                            |                                              | RUN DATE: 26-Jan-97         |  |
|                               |                 |                      | TIME: 10:31                                            |                            |                        |                                   |                            |                                              |                             |  |
| 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                                                   |                            | 0.2322                 | \$ 0.11                           |                            | \$ 0.01                                      |                             |  |
| BUILDING                      | 10C             | 1.0000               | \$ 12                                                  |                            | 0.2937                 | \$ 3.40                           |                            | \$ 0.28                                      |                             |  |
| BLDG ENTRANCE CABLE           | 12C             | 1.0000               |                                                        |                            | 0.3922                 |                                   |                            |                                              |                             |  |
| INTRABLDG CABLE               | 52C             | 1.0000               |                                                        |                            | 0.3922                 |                                   |                            |                                              |                             |  |
| AERIAL CABLE (COPPER)         | 22C             | 1.0000               |                                                        | \$ 5                       | 0.4033                 |                                   | \$ 1.85                    |                                              | \$ 0.15                     |  |
| BURIED CABLE (COPPER)         | 45C             | 1.0000               |                                                        | \$ 0                       | 0.3467                 |                                   | \$ 0.13                    |                                              | \$ 0.01                     |  |
| UNDERGROUND (CU) CA.          | 5C              | 1.0000               |                                                        | \$ 1                       | 0.3663                 |                                   | \$ 0.33                    |                                              | \$ 0.03                     |  |
| 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               | \$ 9                                                   |                            | 0.3881                 | \$ 3.46                           |                            | \$ 0.29                                      |                             |  |
| POLE LINE                     | 1C              | 1.0000               |                                                        | \$ 1                       | 0.3807                 |                                   |                            |                                              | \$ 0.04                     |  |
| CONDUIT                       | 4C              | 1.0000               |                                                        | \$ 0                       | 0.2521                 |                                   |                            |                                              | \$ 0.01                     |  |
| SUBTOTALS                     |                 |                      | \$ 21                                                  | \$ 7                       |                        |                                   |                            |                                              | \$ 0.24                     |  |
| TOTALS                        |                 |                      |                                                        | \$ 28                      |                        |                                   |                            |                                              | \$ 0.82                     |  |
|                               |                 |                      | culpinvsv                                              |                            |                        |                                   |                            |                                              | culpmrc                     |  |

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

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## LOOP COST ANALYSIS TOOL

Bellcore<sup>®</sup>SUB\_PRI - REPORT 14  
Sheet 1 of 1

## PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

LCAT Release: 1.0.4

Issue Date: 7/31/95

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

FACILITY SEGMENT: SUB-PRIMARY PLANT

SERVICE CLASS: BAND 3 - BUSINESS PBX

STUDY YR: 1995  
TEST CASE: 1  
RUN DATE: 26-Jan-97  
TIME: 10:31

## 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

(SEE NOTE)  
TOTAL  
AVG. WEIGHTED

| PLANT ITEM                                                              | PLANT ACCT CODE | BAND MIX<br>AVG. LGTH | 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT | (SEE NOTE)<br>TOTAL<br>AVG. WEIGHTED |
|-------------------------------------------------------------------------|-----------------|-----------------------|---------------------------------------------|--------------------------------------|
|                                                                         |                 |                       | 0                                           |                                      |
|                                                                         |                 |                       | 1.0000                                      |                                      |
|                                                                         |                 |                       | 27360                                       |                                      |
|                                                                         |                 |                       | 300                                         | 300                                  |
| <b>SHARED RESOURCES</b>                                                 |                 |                       |                                             |                                      |
| LAND                                                                    | 20C             |                       | \$ 0.01                                     | \$ 0.01                              |
| BUILDING                                                                | 10C             |                       | \$ 0.28                                     | \$ 0.28                              |
| 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             |                       | \$ 0.29                                     | \$ 0.29                              |
| POLE LINE                                                               | 1C              |                       |                                             | \$ 0.00                              |
| CONDUIT                                                                 | 4C              |                       |                                             | \$ 0.00                              |
| <b>DIRECT RESOURCES</b>                                                 |                 |                       |                                             |                                      |
| LAND                                                                    | 20C             |                       |                                             | \$ 0.00                              |
| BUILDING                                                                | 10C             |                       |                                             | \$ 0.00                              |
| BLDG ENTRANCE CABLE                                                     | 12C             |                       |                                             | \$ 0.00                              |
| INTRABLDG CABLE                                                         | 52C             |                       |                                             | \$ 0.00                              |
| AERIAL CABLE (COPPER)                                                   | 22C             |                       | \$ 0.15                                     | \$ 0.15                              |
| BURIED CABLE (COPPER)                                                   | 45C             |                       | \$ 0.01                                     | \$ 0.01                              |
| UNDERGROUND (CU) CA.                                                    | 5C              |                       | \$ 0.03                                     | \$ 0.03                              |
| CO EQPT - P GAIN TERM                                                   | 257C            |                       |                                             | \$ 0.00                              |
| CO EQPT - P GAIN CHAN                                                   | 257C            |                       |                                             | \$ 0.00                              |
| CO EQPT - FO MUX TERM                                                   | 857C            |                       |                                             | \$ 0.00                              |
| CO EQPT - FO MUX CHAN                                                   | 857C            |                       |                                             | \$ 0.00                              |
| CO EQPT - ANALOG SW                                                     | 77C             |                       |                                             | \$ 0.00                              |
| CO EQPT - DIGITAL SW                                                    | 377C            |                       |                                             | \$ 0.00                              |
| AERIAL CABLE (FIBER)                                                    | 822C            |                       |                                             | \$ 0.00                              |
| BURIED CABLE (FIBER)                                                    | 845C            |                       |                                             | \$ 0.00                              |
| UNDERGROUND (FO) CA.                                                    | 85C             |                       |                                             | \$ 0.00                              |
| CONNECTORS                                                              | 57C             |                       |                                             | \$ 0.00                              |
| MISC. COM EQP & PWR                                                     | 57C             |                       |                                             | \$ 0.00                              |
| POLE LINE                                                               | 1C              | 0.0                   | \$ 0.04                                     | \$ 0.04                              |
| CONDUIT                                                                 | 4C              | 0.0                   | \$ 0.01                                     | \$ 0.01                              |
| <b>SPAN SUMMARY</b>                                                     |                 |                       |                                             |                                      |
|                                                                         |                 |                       | \$ 0.82                                     | \$ 0.82                              |
| <b>AVG. WTD. SPAN SUMMARY</b>                                           |                 |                       |                                             |                                      |
|                                                                         |                 |                       | \$ 0.82                                     | \$ 0.82                              |
| NOTE: [sum(INV <sub>ACCT</sub> <sup>BAND</sup> * MIX <sup>BAND</sup> )] |                 |                       |                                             |                                      |

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

LAST UPDATE

28-Jan-97

09:10

## LOOP COST ANALYSIS TOOL

Belcore<sup>TM</sup>

LCAT

Release: 1.0.4

Issued: 8/31/95

### FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 18001 FEET - INFINITY INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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| LOOP COST ANALYSIS TOOL                                                                                                                                                        |  |  |  |  |  |  |  |  |  | Belcore             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------|--|
| BASIC INVESTMENT WORKSHEET                                                                                                                                                     |  |  |  |  |  |  |  |  |  | LCAT Release: 1.0.4 |  |
| CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET                                                                                                                  |  |  |  |  |  |  |  |  |  | Issue Date: 8/31/85 |  |
| FOR: DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY                                                                                                                           |  |  |  |  |  |  |  |  |  | STUDY YR: 1986      |  |
| FACILITY TYPE: COPPER DIG LOOP CRR                                                                                                                                             |  |  |  |  |  |  |  |  |  | TEST CASE: 1        |  |
| CIRCUIT DESIGN: T1C                                                                                                                                                            |  |  |  |  |  |  |  |  |  | DATE: 28-Jan-87     |  |
| SERVICE CLASS: BAND 3 - BUSINESS PBX                                                                                                                                           |  |  |  |  |  |  |  |  |  | TIME: 10:32 AM      |  |
| COMPANY: CINCINNATI BELL TEL                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| CITY / AREA: OHIO                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| STATE / PROV: CINCINNATI                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 27360 cur length                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| 300 cursidr-length                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| I = 0.125 pfactor.                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| CABLE COMPONENTS (NOTE 5)                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 4)                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 5)                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| CABLE WEIGHTED AIR DRYER                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| INVESTMENT TERMINAL INVESTMENT                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| PER CHAN INVESTMENT PER PAIR                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| [E=C*D] [UI*DTG] [E*factr]                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| [E*factr] [UI*DTG]                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| [A]                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| 23581                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| AERIAL                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 0.810000                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 2387.58                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| 0.022600                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 53.96                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| ON                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| BURIED                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 0.040000                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 117.91                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 0.037800                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 4.46                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| COPPER CABLE DLC                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| 24.00 GA. FACILITIES                                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| UNDERGRND                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| 0.150000                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 442.14                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 0.024000                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 10.61                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| 1.000000                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| OUTSIDE PLANT LOADINGS (NOTE 5):                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| ADJUST. / LOAD FACTORS TO AERIAL PFI                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| ADJUST. / LOAD FACTORS TO BURIED PFI                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| ADJUST. / LOAD FACTORS TO UGD PFI                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| DLC EQUIPMENT INVEST. (NOTE 2):                                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| INT DLC EQUIP INVEST. (CU COMUX) =                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| intdlcco_ \$ 0.00 \$ 0.00                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| INT DLC EQUIP INVEST. (CU RTMUX) =                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| intdlrt_ \$ 51.57 \$ 85.28                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| UNIV DLC EQUIP INVEST. (CU COMUX) =                                                                                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| unvdlcco_ \$ 12.14 \$ 87.51                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| UNIV DLC EQUIP INVEST. (CU RTMUX) =                                                                                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| unvdlrt_ \$ 51.57 \$ 85.28                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| DLC EQUIP INVEST. (CU LINE) =                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| dlcco_ \$ 0.00                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgrvst \$ 4.17                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| OTHER INVESTMENT                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| inv / unit lgth : inv rtrn fctr :                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| 0.0000 0.2530                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) =                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 22.75                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| UGD CONDUIT FACTOR (UCF) =                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| 0.0000 0.5165                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| CONDUIT INVESTMENT (UTIL UNDGRD INVEST x UCF) =                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 9.13                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| EQUIPMENT INVESTMENT LOADINGS                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| INVEST. PER CHAN. FOR DLC TERM (co conn) =                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| 0.1127                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| 0.1127                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVEST. (CU REMMUX x MCEP) =                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 15.42                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVEST. (CDLCMUX x MCEP) =                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 11.23                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVEST. (CO CONN x MCEP) =                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| OTHER INVESTMENT                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR DLC (LANDf_rem) =                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| 0.0056                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR DLC (LANDf_c.o.) =                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| 0.0056                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| LAND INVEST. (CU COMUX+MCEP) x LANDf =                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 1.47                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| LAND INVEST. ((CO CONN+MCEP) x LANDf) =                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR DLC (BLDGf_rem.) =                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 0.1316                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR DLC (BLDGf_c.o.) =                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 0.1316                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| BLDG INVEST. (CDLCMUX+MCEP) x BLDGf =                                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 34.63                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BLDG INVEST. ((CO CONN+MCEP) x BLDGf) =                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| LOOP TOPOLOGY                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| AVERAGE NUMBER OF HUBS                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| NA                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| ADDITIONAL LENGTH OF SPRING QS. REQUIRED                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| NA                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENTRAL OFFICE ANALOG INTFC                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| 0.0000                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENTRAL OFFICE DIGITAL INTFC                                                                                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| 1.0000                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF UNIVERSAL DLC INTFC                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| 1.0000                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF INTEGRATED DIGITAL INTFC                                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| 0.0000                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| FOOTNOTES                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.                               |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B: FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E. |  |  |  |  |  |  |  |  |  |                     |  |

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| C:\123R24\LCATCALC\OUPRGN    |                 | LOOP COST ANALYSIS TOOL                                       |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | Bellcore            |  |
|------------------------------|-----------------|---------------------------------------------------------------|---------------------|----------------------------------|------------------|--------------------------------------------|---------------------------|------------------------|--------------------------------------------|----------------------------|--|---------------------|--|
| CDLC PLANT - WORKSHEET 1     |                 | ACCOUNT INVESTMENT WORKSHEET                                  |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | LCAT Release: 1.0.4 |  |
| Sheet 2 of 3                 |                 | CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | Issue Date: 8/31/95 |  |
|                              |                 | FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY           |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | STUDY YR: 1996      |  |
| COMPANY: CINCINNATI BELL TEL |                 | FACILITY TYPE: COPPER D'S LOOP CXR                            |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | TEST CASE: 1        |  |
| CITY / AREA: CHIO            |                 | CIRCUIT DESIGN: T C                                           |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | DATE: 28-Jan-97     |  |
| STATE / PROV: CINCINNATI     |                 | SERVICE CLASS: BAND 3 - BUSINESS PBX                          |                     |                                  |                  |                                            |                           |                        |                                            |                            |  | TIME: 10:32 AM      |  |
| PLANT ITEM                   | PLANT ACCT CODE | FIXED VARI SUNK                                               | RESOURCE ALLOCATION | 1996 UNIT INVESTMENTS BY ACCOUNT | CIRCUIT QUANTITY | 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION |                           | ADMIN. UTIL. LINE FILL | 1996 UNIT LOOP INVESTMENT INCL UTILIZATION |                            |  |                     |  |
|                              |                 |                                                               |                     | COST EQUATION [F]                |                  | SHARED RESOURCES [H=F*G]                   | DIRECT RESOURCES [H'=F*G] |                        | SHARED RESOURCES [K=H/J]                   | DIRECT RESOURCES [K'=H'/J] |  |                     |  |
| LAND                         | 20C             | F                                                             | SHARED              | 1.47                             | 1                | \$ 1                                       |                           | 1.0000                 | \$ 1                                       |                            |  |                     |  |
| BUILDING                     | 10C             | F                                                             | SHARED              | 34.76                            | 1                | \$ 35                                      |                           | 1.0000                 | \$ 35                                      |                            |  |                     |  |
| BLDG ENTRANCE CABLE          | 12C             | ---                                                           | ---                 |                                  |                  |                                            |                           | 1.0000                 |                                            |                            |  |                     |  |
| INTRABLDG CABLE              | 52C             | ---                                                           | ---                 |                                  |                  |                                            |                           | 0.3500                 |                                            |                            |  |                     |  |
| AERIAL CABLE (COPPER)        | 22C             | V                                                             | DIRECT              | 53.96                            | 1                |                                            | \$ 54                     | 0.6000                 |                                            | \$ 90                      |  |                     |  |
| BURIED CABLE (COPPER)        | 45C             | V                                                             | DIRECT              | 4.46                             | 1                |                                            | \$ 4                      | 0.6000                 |                                            | \$ 7                       |  |                     |  |
| UNDERGROUND (CU) CA.         | 5C              | V                                                             | DIRECT              | 14.78                            | 1                |                                            | \$ 15                     | 0.6000                 |                                            | \$ 25                      |  |                     |  |
| CO EQPT - P GAIN TERM        | 257C            | F                                                             | DIRECT              | 79.13                            | 1                |                                            | \$ 79                     | 0.7000                 |                                            | \$ 113                     |  |                     |  |
| CO EQPT - P GAIN CHAN        | 257C            | V                                                             | DIRECT              | 172.79                           | 1                |                                            | \$ 173                    | 0.7000                 |                                            | \$ 247                     |  |                     |  |
| CO EQPT - FO MUX TERM        | 857C            | F                                                             | DIRECT              |                                  |                  |                                            |                           | 1.0000                 |                                            |                            |  |                     |  |
| CO EQPT - FO MUX CHAN        | 857C            | F                                                             | DIRECT              |                                  |                  |                                            |                           | 1.0000                 |                                            |                            |  |                     |  |
| CO EQPT - ESS - ANALOG       | 77C             | V                                                             | DIRECT              | 0.00                             |                  |                                            |                           | 1.0000                 |                                            |                            |  |                     |  |
| CO EQPT - ESS - DIGITAL      | 377C            | V                                                             | DIRECT              | 0.00                             |                  |                                            |                           | 1.0000                 |                                            |                            |  |                     |  |
| AERIAL CABLE (FIBER)         | 822C            | F                                                             | DIRECT              |                                  |                  |                                            |                           | 0.3300                 |                                            |                            |  |                     |  |
| BURIED CABLE (FIBER)         | 845C            | F                                                             | DIRECT              |                                  |                  |                                            |                           | 0.3300                 |                                            |                            |  |                     |  |
| UNDERGROUND (FO) CA.         | 85C             | F                                                             | DIRECT              |                                  |                  |                                            |                           | 0.3300                 |                                            |                            |  |                     |  |
| CONNECTORS                   | 57C             | V                                                             | DIRECT              |                                  |                  |                                            |                           | 1.0000                 |                                            |                            |  |                     |  |
| MISC. COM EQP & PWR          | 57C             | V                                                             | SHARED              | 11.23                            | 1                | \$ 11                                      |                           | 1.0000                 |                                            |                            |  |                     |  |
| POLE LINE                    | 1C              | F                                                             | DIRECT              | 22.75                            | 1                |                                            | \$ 23                     | 1.0000                 |                                            |                            |  |                     |  |
| CONDUIT                      | 4C              | F                                                             | DIRECT              | 9.13                             | 1                |                                            | \$ 9                      | 1.0000                 |                                            |                            |  |                     |  |
| TOTALS                       |                 |                                                               |                     |                                  |                  |                                            |                           |                        |                                            |                            |  |                     |  |

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PROVIDED TO PUBLIC

FEEDITY

## FOOTNOTES

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

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 COLC PLANT - WORKSHEET :  
 Sheet 3 of 3

# LOOP COST ANALYSIS TOOL

Bellicore

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 CTR  
 CIRCUIT DESIGN : T1C  
 SERVICE CLASS : BAND 3 - BUSINESS PBX

LCAT Release : 1.0.4  
 Issue Date : 8/31/95  
 STUDY YR : 1996  
 TEST CASE : 1  
 DATE : 28-Jan-97  
 TIME : 10:32 AM

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

| PLANT ITEM              | PLANT<br>ACCT<br>CODE | 1996<br>TO<br>1996<br>TPI | 1996 UNIT<br>LOOP INVESTMENT<br>BY ACCOUNT |                               | ANNUAL<br>COST<br>FACTOR<br>[N] | 1996 UNIT<br>ANNUAL COSTS<br>BY ACCOUNT |                                | 1996 UNIT<br>MONTHLY RECURRING COSTS<br>BY ACCOUNT |                                 |
|-------------------------|-----------------------|---------------------------|--------------------------------------------|-------------------------------|---------------------------------|-----------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------|
|                         |                       |                           | SHARED                                     | DIRECT                        |                                 | SHARED                                  | DIRECT                         | SHARED                                             | DIRECT                          |
|                         |                       |                           | RESOURCES<br>[M=K*L]<br>[L]                | RESOURCES<br>[M'=K'*L]<br>[M' |                                 | RESOURCES<br>[P=M*N]<br>[P]             | RESOURCES<br>[P'=M'*N]<br>[P'] | RESOURCES<br>[R=P/12]<br>[R]                       | RESOURCES<br>[R'=P'/12]<br>[R'] |
| LAND                    | 20C                   | 1.0000                    | \$ 1                                       |                               | 0.2322                          | \$ 0.34                                 |                                | \$ 0.03                                            |                                 |
| BUILDING                | 10C                   | 1.0000                    | \$ 35                                      |                               | 0.2937                          | \$ 10.21                                |                                | \$ 0.85                                            |                                 |
| BLDG ENTRANCE CABLE     | 12C                   | 1.0000                    |                                            |                               | 0.3922                          |                                         |                                |                                                    |                                 |
| INTRABLDG CABLE         | 52C                   | 1.0000                    |                                            |                               | 0.3922                          |                                         |                                |                                                    |                                 |
| AERIAL CABLE (COPPER)   | 22C                   | 1.0000                    |                                            | \$ 90                         | 0.4033                          |                                         | \$ 36.27                       |                                                    | \$ 3.02                         |
| BURIED CABLE (COPPER)   | 45C                   | 1.0000                    |                                            | \$ 7                          | 0.3467                          |                                         | \$ 2.58                        |                                                    | \$ 0.21                         |
| UNDERGROUND (CU) CA.    | 5C                    | 1.0000                    |                                            | \$ 25                         | 0.3663                          |                                         | \$ 9.02                        |                                                    | \$ 0.75                         |
| CO EQPT - P GAIN TERM   | 257C                  | 1.0000                    |                                            | \$ 113                        | 0.3881                          |                                         | \$ 43.87                       |                                                    | \$ 3.66                         |
| CO EQPT - P GAIN CHAN   | 257C                  | 1.0000                    |                                            | \$ 247                        | 0.3881                          |                                         | \$ 95.80                       |                                                    | \$ 7.98                         |
| CO EQPT - FO MUX TERM   | 857C                  | 1.0000                    |                                            |                               | 0.3881                          |                                         |                                |                                                    |                                 |
| CO EQPT - FO MUX CHAN   | 857C                  | 1.0000                    |                                            |                               | 0.3881                          |                                         |                                |                                                    |                                 |
| CO EQPT - ESS - ANALOG  | 77C                   | 1.0000                    |                                            |                               | 0.0000                          |                                         |                                |                                                    |                                 |
| CO EQPT - ESS - DIGITAL | 377C                  | 1.0000                    |                                            |                               | 0.3458                          |                                         |                                |                                                    |                                 |
| AERIAL CABLE (FIBER)    | 822C                  | 1.0000                    |                                            |                               | 0.2983                          |                                         |                                |                                                    |                                 |
| BURIED CABLE (FIBER)    | 845C                  | 1.0000                    |                                            |                               | 0.2724                          |                                         |                                |                                                    |                                 |
| UNDERGROUND (FO) CA.    | 85C                   | 1.0000                    |                                            |                               | 0.2689                          |                                         |                                |                                                    |                                 |
| CONNECTORS              | 57C                   | 1.0000                    |                                            |                               | 0.3881                          |                                         |                                |                                                    |                                 |
| MISC. COM EQP & PWR     | 57C                   | 1.0000                    | \$ 11                                      |                               | 0.3881                          | \$ 4.36                                 |                                | \$ 0.36                                            |                                 |
| POLE LINE               | 1C                    | 1.0000                    |                                            | \$ 23                         | 0.3807                          |                                         | \$ 8.66                        |                                                    | \$ 0.72                         |
| CONDUIT                 | 4C                    | 1.0000                    |                                            | \$ 9                          | 0.2521                          |                                         | \$ 2.30                        |                                                    | \$ 0.19                         |
| TOTALS                  |                       |                           | \$ 47                                      | \$ 514                        |                                 | \$ 14.91                                | \$ 149.54                      | \$ 1.24                                            | \$ 16.54                        |
|                         |                       |                           |                                            | \$ 561                        |                                 |                                         | \$ 213.41                      |                                                    | \$ 17.78                        |
|                         |                       |                           |                                            | FEED1SY                       |                                 |                                         | FEED1ANB                       |                                                    | FEED1MRC                        |

## 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\LCAT\CALC\CUPRGN                              |                        | LOOP COST ANALYSIS TOOL                  |       |         |      | Bellcore            |         |
|---------------------------------------------------------|------------------------|------------------------------------------|-------|---------|------|---------------------|---------|
| CDLC PLANT - REPORT 14.1                                |                        | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |       |         |      | LCAT Release: 1.0.4 |         |
| Sheet 1 of 3                                            |                        |                                          |       |         |      | Issue Date: 8/31/95 |         |
| COMPANY: CINCINNATI BELL TEL.                           |                        | FACILITY SEGMENT: PRIMARY FEEDER SEGMENT |       |         |      | STUDY YR: 1995      |         |
| CITY / AREA: CINCINNATI                                 |                        | CIRCUIT DESIGN: COPPER DIG LOOP CXR      |       |         |      | TEST CASE: 1        |         |
| STATE / PROV: OHIO                                      |                        | SERVICE CLASS: BAND 3 - BUSINESS PBX     |       |         |      | DATE: 28-Jan-97     |         |
|                                                         |                        |                                          |       |         |      | TIME: 10:33 AM      |         |
| 1995 UNIT MONTHLY RECURRING COST BY ACCOUNT             |                        |                                          |       |         |      |                     |         |
| (SEE NOTE)                                              |                        |                                          |       |         |      |                     |         |
| TOTAL                                                   |                        |                                          |       |         |      |                     |         |
| AVG. WEIGHTED INVESTMENT                                |                        |                                          |       |         |      |                     |         |
| 23581                                                   |                        |                                          |       |         |      |                     |         |
| -----                                                   |                        |                                          |       |         |      |                     |         |
| <b>SHARED RESOURCES</b>                                 |                        |                                          |       |         |      |                     |         |
| 1                                                       | LAND                   | 20C                                      |       | \$ 0.03 |      |                     | \$ 0.03 |
| 2                                                       | BUILDING               | 10C                                      |       | \$ 0.85 |      |                     | \$ 0.85 |
| 3                                                       | BLDG ENTRANCE CABLE    | 12C                                      |       |         |      |                     | \$ 0.00 |
| 4                                                       | INTRABLDG CABLE        | 52C                                      |       |         |      |                     | \$ 0.00 |
| 5                                                       | AERIAL CABLE (COPPER)  | 22C                                      |       |         |      |                     | \$ 0.00 |
| 6                                                       | BURIED CABLE (COPPER)  | 45C                                      |       |         |      |                     | \$ 0.00 |
| 7                                                       | UNDERGROUND (CU) CA.   | 5C                                       |       |         |      |                     | \$ 0.00 |
| 8                                                       | CO EQPT - P GAIN TERM  | 257C                                     |       |         |      |                     | \$ 0.00 |
| 9                                                       | CO EQPT - P GAIN CHAN  | 257C                                     |       |         |      |                     | \$ 0.00 |
| 10                                                      | CO EQPT - FO MUX TERM  | 857C                                     |       |         |      |                     | \$ 0.00 |
| 11                                                      | CO EQPT - FO MUX CHAN  | 857C                                     |       |         |      |                     | \$ 0.00 |
| 12                                                      | CO EQPT - ANALOG SW    | 77C                                      |       |         |      |                     | \$ 0.00 |
| 13                                                      | CO EQPT - DIGITAL SW   | 377C                                     |       |         |      |                     | \$ 0.00 |
| 14                                                      | AERIAL CABLE (FIBER)   | 822C                                     |       |         |      |                     | \$ 0.00 |
| 15                                                      | BURIED CABLE (FIBER)   | 845C                                     |       |         |      |                     | \$ 0.00 |
| 16                                                      | UNDERGROUND (FO) CA.   | 85C                                      |       |         |      |                     | \$ 0.00 |
| 17                                                      | CONNECTORS             | 57C                                      |       |         |      |                     | \$ 0.00 |
| 18                                                      | MISC. COM EQP & PWR    | 57C                                      |       | \$ 0.36 |      |                     | \$ 0.36 |
| 19                                                      | POLE LINE              | 1C                                       |       |         |      |                     | \$ 0.00 |
| 20                                                      | CONDUIT                | 4C                                       |       |         |      |                     | \$ 0.00 |
| <b>DIRECT RESOURCES</b>                                 |                        |                                          |       |         |      |                     |         |
| 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                                      |       | \$ 3.02 |      |                     | \$ 3.02 |
| 26                                                      | BURIED CABLE (COPPER)  | 45C                                      |       | \$ 0.21 |      |                     | \$ 0.21 |
| 27                                                      | UNDERGROUND (CU) CA.   | 5C                                       |       | \$ 0.75 |      |                     | \$ 0.75 |
| 28                                                      | CO EQPT - P GAIN TERM  | 257C                                     |       | \$ 3.66 |      |                     | \$ 3.66 |
| 29                                                      | CO EQPT - P GAIN CHAN  | 257C                                     |       | \$ 7.98 |      |                     | \$ 7.98 |
| 30                                                      | CO EQPT - FO MUX TERM  | 857C                                     |       |         |      |                     | \$ 0.00 |
| 31                                                      | CO EQPT - FO MUX CHAN  | 857C                                     |       |         |      |                     | \$ 0.00 |
| 32                                                      | CO EQPT - ANALOG SW    | 77C                                      |       |         |      |                     | \$ 0.00 |
| 33                                                      | CO EQPT - DIGITAL SW   | 377C                                     |       |         |      |                     | \$ 0.00 |
| 34                                                      | AERIAL CABLE (FIBER)   | 822C                                     |       |         |      |                     | \$ 0.00 |
| 35                                                      | BURIED CABLE (FIBER)   | 845C                                     |       |         |      |                     | \$ 0.00 |
| 36                                                      | UNDERGROUND (FO) CA.   | 85C                                      |       |         |      |                     | \$ 0.00 |
| 37                                                      | CONNECTORS             | 57C                                      |       |         |      |                     | \$ 0.00 |
| 38                                                      | MISC. COM EQP & PWR    | 57C                                      |       |         |      |                     | \$ 0.00 |
| 39                                                      | POLE LINE              | 1C                                       |       | \$ 0.72 |      |                     | \$ 0.72 |
| 40                                                      | CONDUIT                | 4C                                       | ***** | \$ 0.19 |      |                     | \$ 0.19 |
| 41                                                      | SPAN SUMMARY           |                                          |       | 17.78   | 0.00 | 0.00                | 17.78   |
| 42                                                      | AVG. WTD. SPAN SUMMARY |                                          |       | 17.78   | 0.00 | 0.00                | 17.78   |
| NOTE: [sum(INV <sub>ACCT</sub> * MIX <sub>MANU</sub> )] |                        |                                          |       |         |      |                     |         |

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| LOOP COST ANALYSIS TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  | Belcore             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------|--|
| BASIC INVESTMENT WORKSHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  | LCAT Rel: 1.0.4     |  |
| FOR PRIMARY FEEDER PLANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  | ISSUE DATE: 7/31/95 |  |
| CIRCUIT DESIGN: 3: FOMUX TO HUB / REM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | STUDY YR: 1996      |  |
| SERVICE CLASS: BAND 3 - BUSIN SERVICE LEVEL: NARBAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  | TEST CASE: 1        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | LAST RUN: 25-Jan-97 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | TIME: 10:34         |  |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| from star_tbt: 300 cur_sdrlgth 15620.5 cur_pnlgth<br>from bw_mux: f = 1979.04 wtdeqvmn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA. PLANT [B] EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT [C=A*B/f] MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| CO TO HUB LINK ON FIBER OPTIC FACILITIES AERIAL BURIED UNDERGRND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| 23581 0.810000 9.65 0.193000 0.000000 0.00 0.000000 0.190000 2.26 0.222900 1.000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| EQUIPMENT INVESTMENT LOADINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| INVST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00<br>MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.1127<br>MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127<br>MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127<br>MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.1127<br>MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.1127<br>MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127<br>MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 13.71<br>MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77<br>MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00<br>MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00<br>LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055<br>LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055<br>LAND FACTOR FOR OTH (LANDfrem) = 0.0055<br>LAND FACTOR FOR DLC EQP (LANDfc.o.) = 0.0055<br>LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0055<br>LAND FACTOR FOR OTH (LANDfc.o.) = 0.0055<br>LAND INVST. (DLC+MUX+MCEP) x LANDfc.o. = \$ 0.76<br>LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98<br>BUILDING FACTOR FOR DLG EQP (BLDGfrem) = 0.1316<br>BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316<br>BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316<br>BUILDING FACTOR FOR DLC EQP (BLDGfc.o.) = 0.1316<br>BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316<br>BUILDING FACTOR FOR OTH (BLDGfc.o.) = 0.1316<br>BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o. = \$ 17.81<br>BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09 |  |  |  |  |  |  |  |  |  |                     |  |
| OUTSIDE PLANT LOADINGS (NOTE 5):<br>ADJUST. / LOAD FACTORS TO AERIAL PFI NA 0.0000<br>ADJUST. / LOAD FACTORS TO BURIED PFI NA 0.0000<br>ADJUST. / LOAD FACTORS TO UGD PFI NA 0.0000<br>DLC EQUIPMENT INVEST. (NOTE 2)<br>INT DLC EQUIP INVEST. (CU COMUX) = intdlcco \$ 0.00 \$ 0.00<br>INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 51.57 \$ 85.28<br>UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco \$ 12.14 \$ 87.51<br>UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt \$ 51.57 \$ 85.28<br>FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco \$ 2.35 \$ 19.62<br>FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort \$ 2.35 \$ 18.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| OTHER INVESTMENT<br>POLE LINE FACTOR (PLf) = tpit 0.0000 0.1965<br>POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 1.11<br>UNDERGROUND CONDUIT FACTOR (PLf) = tucf 0.0000 0.5232<br>CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) = \$ 0.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| LOOP TOPOLOGY<br>AVERAGE NUMBER OF HUBS NA<br>ADDITIONAL LENGTH OF RING OSP REQUIRED NA<br>MIX OF CENT. OFC. ANALOG INTFC 0.0000<br>MIX OF CENT. OFC. DIGITAL INTFC 1.0000<br>MIX OF UNIVERSAL DLC INTFC 1.0000<br>MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| FOOTNOTES<br>NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.<br>NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.<br>NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MODIFIED BY 2.<br>NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.<br>NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |



| LOOP COST ANALYSIS TOOL                                                                                                                                                                                                                                                                       |                 |                 |                     |               |                  |                  |                  |                        |                  | Bellicore           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|---------------------|---------------|------------------|------------------|------------------|------------------------|------------------|---------------------|--|
| ACCOUNT INVESTMENT WORKSHEET                                                                                                                                                                                                                                                                  |                 |                 |                     |               |                  |                  |                  |                        |                  | LCAT Rel: 1.0.4     |  |
| FOR PRIMARY FEEDER PLANT                                                                                                                                                                                                                                                                      |                 |                 |                     |               |                  |                  |                  |                        |                  | ISSUE DATE: 7/31/95 |  |
| FACILITY TYPE: FIBER IN THE LOOP                                                                                                                                                                                                                                                              |                 |                 |                     |               |                  |                  |                  |                        |                  | STUDY YR: 1995      |  |
| CIRCUIT DESIGN: 3: FOMUX TO HUB / REM.                                                                                                                                                                                                                                                        |                 |                 |                     |               |                  |                  |                  |                        |                  | TEST CASE: 1        |  |
| SERVICE CLASS: BAND 3 - BUSINSERVICE LEVEL: NARBAND                                                                                                                                                                                                                                           |                 |                 |                     |               |                  |                  |                  |                        |                  | LAST RUN: 28-Jan-97 |  |
|                                                                                                                                                                                                                                                                                               |                 |                 |                     |               |                  |                  |                  |                        |                  | TIME: 10:34         |  |
| 1995 UNIT INVESTMENTS BY ACCOUNT                                                                                                                                                                                                                                                              |                 |                 |                     |               |                  |                  |                  |                        |                  |                     |  |
| 1995 UNIT LOOP INVESTMENT EXCL UTILIZATION                                                                                                                                                                                                                                                    |                 |                 |                     |               |                  |                  |                  |                        |                  |                     |  |
| 1995 UNIT LOOP INVESTMENT INCL UTILIZATION                                                                                                                                                                                                                                                    |                 |                 |                     |               |                  |                  |                  |                        |                  |                     |  |
| PLANT ITEM                                                                                                                                                                                                                                                                                    | PLANT ACCT CODE | FIXED VARI SUNK | RESOURCE ALLOCATION | COST EQUATION | CIRCUIT QUANTITY | SHARED RESOURCES | DIRECT RESOURCES | ADMIN. UTIL. LINE FILL | SHARED RESOURCES | DIRECT RESOURCES    |  |
|                                                                                                                                                                                                                                                                                               |                 |                 |                     | [F]           | [G]              | [H=F*G]          | [H'=F*G]         | [J]                    | [K=H/J]          | [K'=H'/J]           |  |
| LAND                                                                                                                                                                                                                                                                                          | 20C             | F               | SHARED              | 1.74          | 1                | \$ 2             |                  | 1.0000                 | \$ 2             |                     |  |
| BUILDING                                                                                                                                                                                                                                                                                      | 10C             | F               | SHARED              | 40.90         | 1                | \$ 41            |                  | 1.0000                 | \$ 41            |                     |  |
| BLDG ENTRANCE CABLE                                                                                                                                                                                                                                                                           | 12C             | ---             | ---                 |               |                  |                  |                  | 1.0000                 |                  |                     |  |
| INTRABLDG CABLE                                                                                                                                                                                                                                                                               | 52C             | ---             | ---                 |               |                  |                  |                  | 0.3500                 |                  |                     |  |
| AERIAL CABLE (COPPER)                                                                                                                                                                                                                                                                         | 22C             | V               | DIRECT              |               |                  |                  |                  | 0.6000                 |                  |                     |  |
| BURIED CABLE (COPPER)                                                                                                                                                                                                                                                                         | 45C             | V               | DIRECT              |               |                  |                  |                  | 0.6000                 |                  |                     |  |
| UNDERGROUND (CU) CA.                                                                                                                                                                                                                                                                          | 5C              | V               | DIRECT              |               |                  |                  |                  | 0.6000                 |                  |                     |  |
| CO EQPT - LOW CAP TERM                                                                                                                                                                                                                                                                        | 257C            | F               | DIRECT              | 63.71         | 1                |                  | \$ 64            | 0.7000                 |                  | \$ 91               |  |
| CO EQPT - LOW CAP CHAN                                                                                                                                                                                                                                                                        | 257C            | V               | DIRECT              | 172.79        | 1                |                  | \$ 173           | 0.7000                 |                  | \$ 247              |  |
| CO EQPT - HI CAP TERM                                                                                                                                                                                                                                                                         | 857C            | F               | DIRECT              | 22.47         | 1                |                  | \$ 22            | 1.0000                 |                  | \$ 22               |  |
| CO EQPT - HI CAP CHAN                                                                                                                                                                                                                                                                         | 857C            | F               | DIRECT              | 38.11         | 1                |                  | \$ 38            | 1.0000                 |                  | \$ 38               |  |
| CO EQPT - ANALOG SW                                                                                                                                                                                                                                                                           | 77C             | V               | DIRECT              | 0.00          |                  |                  |                  | 1.0000                 |                  |                     |  |
| CO EQPT - DIGITAL SW                                                                                                                                                                                                                                                                          | 377C            | V               | DIRECT              | 0.00          |                  |                  |                  | 1.0000                 |                  |                     |  |
| AERIAL CABLE (FIBER)                                                                                                                                                                                                                                                                          | 822C            | F               | DIRECT              | 1.86          | 1                |                  | \$ 2             | 0.3300                 |                  | \$ 6                |  |
| BURIED CABLE (FIBER)                                                                                                                                                                                                                                                                          | 845C            | F               | DIRECT              | 0.00          |                  |                  |                  | 0.3300                 |                  |                     |  |
| UNDERGROUND (FO) CA.                                                                                                                                                                                                                                                                          | 85C             | F               | DIRECT              | 0.50          | 1                |                  | \$ 1             | 0.3300                 |                  | \$ 2                |  |
| CONNECTORS                                                                                                                                                                                                                                                                                    | 57C             | V               | DIRECT              | 0.00          |                  |                  |                  | 1.0000                 |                  |                     |  |
| MISC. COM EQP & PWR                                                                                                                                                                                                                                                                           | 57C             | V               | SHARED              | 13.71         | 1                | \$ 14            |                  | 1.0000                 | \$ 14            |                     |  |
| POLE LINE                                                                                                                                                                                                                                                                                     | 1C              | F               | DIRECT              | 1.11          | 1                |                  | \$ 1             | 1.0000                 |                  | \$ 1                |  |
| CONDUIT                                                                                                                                                                                                                                                                                       | 4C              | F               | DIRECT              | 0.80          | 1                |                  | \$ 1             | 1.0000                 |                  | \$ 1                |  |
| TOTALS                                                                                                                                                                                                                                                                                        |                 |                 |                     |               |                  |                  |                  |                        |                  |                     |  |
| <div style="text-align: right;"> <b>CONFIDENTIAL</b><br/>           NOTICE MUST BE GIVEN<br/>           PRIOR TO RELEASE TO PUBLIC<br/>           PROVIDED TO PUCO         </div>                                                                                                             |                 |                 |                     |               |                  |                  |                  |                        |                  |                     |  |
| FOOTNOTES<br>NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.<br>NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&P INV.<br>NOTE 3: ESS CO EQPT = C.O. CONN + MCE&P INV.<br>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                                                                                                                                                                                                                                                                                                                   |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------|--------------------------------------------|-----------------------------------|--------------------------|-----------------------------------------|-------------------------|----------------------------------------------------|-----------------------------------|
| ANNUAL COSTS WORKSHEET                                                                                                                                                                                                                                                                                                                    |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| FOR PRIMARY FEEDER PLANT                                                                                                                                                                                                                                                                                                                  |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| FACILITY TYPE: FIBER IN THE LOOP                                                                                                                                                                                                                                                                                                          |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| CIRCUIT DESIGN: 3: FOMUX TO HUB / REM.                                                                                                                                                                                                                                                                                                    |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| SERVICE CLASS: BAND 3 - BU: SERVICE LEVEL: NARBAND                                                                                                                                                                                                                                                                                        |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| <div> <div> C:\123R24\LCAT\CALC\FOPRGN.WK1<br/> FO MUX - WORKSHEET 3<br/> Sheet 3 of 3 </div> <div> COMPANY: CINCINNATI BELL TEL<br/> CITY / AREA: CINCINNATI<br/> STATE / PROV: OHIO </div> <div> LCAT Rel: 1.0.4<br/> ISSUE DATE: 7/31/95<br/> STUDY YR: 1996<br/> TEST CASE: 1<br/> LAST RUN: 28-Jan-97<br/> TIME: 10:34 </div> </div> |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| PLANT ITEM                                                                                                                                                                                                                                                                                                                                | PLANT<br>ACCT<br>CODE | 1996<br>TO<br>1996<br>TPI | 1996 UNIT<br>LOOP INVESTMENT<br>BY ACCOUNT |                                   | ANNUAL<br>COST<br>FACTOR | 1996 UNIT<br>ANNUAL COSTS<br>BY ACCOUNT |                         | 1996 UNIT<br>MONTHLY RECURRING COSTS<br>BY ACCOUNT |                                   |
|                                                                                                                                                                                                                                                                                                                                           |                       |                           | SHARED<br>RESOURCES<br>fo3sixaset          | DIRECT<br>RESOURCES<br>fo3dixaset |                          | SHARED<br>RESOURCES                     | DIRECT<br>RESOURCES     | SHARED<br>RESOURCES<br>fo3sixaset                  | DIRECT<br>RESOURCES<br>fo3dixaset |
|                                                                                                                                                                                                                                                                                                                                           |                       | tpistart                  | [M=K*L]<br>fo3sixaset                      | [M'=K'*L]<br>fo3dixaset           | [N]<br>acfstart          | [P=M*N]<br>fo3sixaset                   | [P'=M'*N]<br>fo3dixaset | [Q=P/12]<br>fo3sixaset                             | [Q'=P'/12]<br>fo3dixaset          |
| [PREVIOUS SHEET SUMMARY .....]                                                                                                                                                                                                                                                                                                            |                       |                           |                                            |                                   |                          |                                         |                         |                                                    |                                   |
| LAND                                                                                                                                                                                                                                                                                                                                      | 20C                   | 1.0000                    | \$ 2                                       |                                   | 0.2322                   | \$ 0.40                                 |                         | \$ 0.03                                            |                                   |
| BUILDING                                                                                                                                                                                                                                                                                                                                  | 10C                   | 1.0000                    | \$ 41                                      |                                   | 0.2937                   | \$ 12.01                                |                         | \$ 1.00                                            |                                   |
| 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                    |                                            |                                   | 0.3457                   |                                         |                         |                                                    |                                   |
| UNDERGROUND (CU) CA.                                                                                                                                                                                                                                                                                                                      | 5C                    | 1.0000                    |                                            |                                   | 0.3653                   |                                         |                         |                                                    |                                   |
| CO EQPT - LOW CAP TERM                                                                                                                                                                                                                                                                                                                    | 257C                  | 1.0000                    |                                            | \$ 91                             | 0.3881                   |                                         | \$ 35.32                |                                                    | \$ 2.94                           |
| CO EQPT - LOW CAP CHAN                                                                                                                                                                                                                                                                                                                    | 257C                  | 1.0000                    |                                            | \$ 247                            | 0.3881                   |                                         | \$ 95.80                |                                                    | \$ 7.98                           |
| CO EQPT - HI CAP TERM                                                                                                                                                                                                                                                                                                                     | 857C                  | 1.0000                    |                                            | \$ 22                             | 0.3881                   |                                         | \$ 8.72                 |                                                    | \$ 0.73                           |
| CO EQPT - HI CAP CHAN                                                                                                                                                                                                                                                                                                                     | 857C                  | 1.0000                    |                                            | \$ 38                             | 0.3881                   |                                         | \$ 14.79                |                                                    | \$ 1.23                           |
| CO EQPT - ANALOG SW                                                                                                                                                                                                                                                                                                                       | 77C                   | 1.0000                    |                                            |                                   | 0.0000                   |                                         |                         |                                                    |                                   |
| CO EQPT - DIGITAL SW                                                                                                                                                                                                                                                                                                                      | 377C                  | 1.0000                    |                                            |                                   | 0.3458                   |                                         |                         |                                                    |                                   |
| AERIAL CABLE (FIBER)                                                                                                                                                                                                                                                                                                                      | 822C                  | 1.0000                    |                                            | \$ 6                              | 0.2983                   |                                         | \$ 1.88                 |                                                    | \$ 0.14                           |
| BURIED CABLE (FIBER)                                                                                                                                                                                                                                                                                                                      | 845C                  | 1.0000                    |                                            |                                   | 0.2724                   |                                         |                         |                                                    |                                   |
| UNDERGROUND (FO) CA.                                                                                                                                                                                                                                                                                                                      | 85C                   | 1.0000                    |                                            | \$ 2                              | 0.2689                   |                                         | \$ 0.41                 |                                                    | \$ 0.03                           |
| CONNECTORS                                                                                                                                                                                                                                                                                                                                | 57C                   | 1.0000                    |                                            |                                   | 0.3881                   |                                         |                         |                                                    |                                   |
| MISC. COM EQP & PWR                                                                                                                                                                                                                                                                                                                       | 57C                   | 1.0000                    | \$ 14                                      |                                   | 0.3881                   | \$ 5.32                                 |                         | \$ 0.44                                            |                                   |
| POLE LINE                                                                                                                                                                                                                                                                                                                                 | 1C                    | 1.0000                    |                                            | \$ 1                              | 0.3807                   |                                         | \$ 0.42                 |                                                    | \$ 0.04                           |
| CONDUIT                                                                                                                                                                                                                                                                                                                                   | 4C                    | 1.0000                    |                                            | \$ 1                              | 0.2521                   |                                         | \$ 0.20                 |                                                    | \$ 0.02                           |
| TOTALS                                                                                                                                                                                                                                                                                                                                    |                       |                           | \$ 56                                      | \$ 408                            |                          | \$ 17.74                                | \$ 175.35               |                                                    | \$ 13.11                          |
|                                                                                                                                                                                                                                                                                                                                           |                       |                           |                                            | \$ 464                            |                          |                                         | \$ 175.09               |                                                    | \$ 14.59                          |
|                                                                                                                                                                                                                                                                                                                                           |                       |                           |                                            | feed3sy                           |                          |                                         | feed3ar                 |                                                    | 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<sup>(R)</sup>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-96  
TIME : 14:02

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

## FOOTNOTES

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

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TABLE - COST\_METH

Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

| <u>Field / Group Title</u> | <u>Valid Inputs</u>    | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                             |
|----------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)                 | The system matrix for DISTRIBUTION cost methodology for -<br>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 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>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 -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component                                                                                    |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT         | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment.<br>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: 1996

TEST CASE: 1

LAST UPDATE: 28-Oct-96

TIME: 14:02

| PLANT ITEM | WHEN BANDWIDTH DELIVERY IS |                |          |                |           |                |
|------------|----------------------------|----------------|----------|----------------|-----------|----------------|
|            | NARROWBAND                 |                | WIDEBAND |                | BROADBAND |                |
|            | CATEGORY                   | SENS. RESOURCE | CATEGORY | SENS. RESOURCE | CATEGORY  | SENS. RESOURCE |
| PLANT CODE | INDEX                      | ASSIGNMENT     | INDEX    | ASSIGNMENT     | INDEX     | ASSIGNMENT     |
| 20C        | F                          | SHARED         | F        | SHARED         | F         | SHARED         |
| 10C        | F                          | SHARED         | F        | SHARED         | F         | SHARED         |
| 22C        | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 45C        | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 5C         | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 257C       | F                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 257C       | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 857C       | F                          | DIRECT         | F        | DIRECT         | F         | DIRECT         |
| 857C       | F                          | DIRECT         | F        | DIRECT         | V         | DIRECT         |
| 77C        | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 377C       | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 822C       | F                          | DIRECT         | F        | DIRECT         | F         | DIRECT         |
| 845C       | F                          | DIRECT         | F        | DIRECT         | F         | DIRECT         |
| 85C        | F                          | DIRECT         | F        | DIRECT         | F         | DIRECT         |
| 57C        | V                          | DIRECT         | V        | DIRECT         | V         | DIRECT         |
| 57C        | V                          | SHARED         | V        | SHARED         | V         | SHARED         |
| 1C         | F                          | DIRECT         | F        | DIRECT         | F         | DIRECT         |
| 4C         | F                          | DIRECT         | F        | DIRECT         | F         | DIRECT         |

## FOOTNOTES

① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS, ONLY.  
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 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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TABLE - COST\_METH  
Sheet 2 of 2

## HELP SCREEN

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

| Field / Group Title | Valid Inputs   | This field or grouping defines -                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES            | (none)         | The system matrix for FEEDER cost methodology for -<br>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 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>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 -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component                                                                                    |
| RESOURCE ASSIGNMENT | SHARED, DIRECT | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment.<br>SHARED - for Multi-Circuit or Non-Specific Investment.                                                                                                                                                                       |

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
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| CA:23R24\LCATR032\CRITERIA                             |  | LOOP COST ANALYSIS TOOL                                               |  | Bellcore <sup>(R)</sup>                     |  |
|--------------------------------------------------------|--|-----------------------------------------------------------------------|--|---------------------------------------------|--|
| INPUT - STUDY SETUP                                    |  | GENERAL STUDY REQUIREMENTS                                            |  | TODAY IS: 28-Jan-97                         |  |
| LCAT Rel.: 1.0.4                                       |  |                                                                       |  | LAST UPDATE:                                |  |
| Issue Date: 3/31/95                                    |  |                                                                       |  | 28-Oct-96 02:03 PM                          |  |
| STUDY NAME                                             |  | 1996 BAND 3 (OHIO ONLY) BUSINESS PBX 18001 FEET - INFINITY INTRASTATE |  |                                             |  |
| COMMENTS                                               |  |                                                                       |  |                                             |  |
| SERVICE CLASS                                          |  | BAND 3 - BUSINESS PBX                                                 |  | STUDY BASIS                                 |  |
|                                                        |  |                                                                       |  | <input checked="" type="checkbox"/> NETWORK |  |
|                                                        |  |                                                                       |  | <input type="checkbox"/> INDIVIDUAL         |  |
| COMPANY                                                |  | CINCINNATI BELL TEL.                                                  |  | INVESTMENT YEAR                             |  |
|                                                        |  |                                                                       |  | 1996                                        |  |
| STATE / PROVINCE                                       |  | OHIO                                                                  |  | LOOP CHAR. STUDY YEAR                       |  |
|                                                        |  |                                                                       |  | 1996                                        |  |
| CITY / AREA                                            |  | CINCINNATI                                                            |  | STUDY YEAR                                  |  |
|                                                        |  |                                                                       |  | 1996                                        |  |
| DENSITY CELL MIX                                       |  | 0 100 0 0                                                             |  | TEST CASE                                   |  |
|                                                        |  | VH HI MED LO                                                          |  |                                             |  |
| DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY: |  |                                                                       |  |                                             |  |
| Type Percent Mix:                                      |  |                                                                       |  |                                             |  |
| 100 FIBER IN THE LOOP                                  |  |                                                                       |  |                                             |  |
| 0 COPPER DIG LOOP CXR                                  |  |                                                                       |  |                                             |  |

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INPUT - STUDY SETUP

Sheet: 1 of 2

HELP SCREEN**Bellcore** (R)

LCAT Rel. 1.0.4

ISSUED: 3/31/95

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

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

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

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

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

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

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR INFORMATION  
 \*\*\*\*\* CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY  
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| C:\123R24\LCATR032\CRITERIA                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Bellcore (R)                                                                                                       |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|------------|--|--------|-----|--------|----------|-----------|------------|--------|---|---------|-----|---------|---|---------|--|-------------|------------|-------|-----------|---------|--|-------|--|-----------|--|--------|--|---------|--|--|----------|--|------------|
| <b>INPUT - STUDY SETUP</b><br>SHEET 2 / 2<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>GENERAL STUDY REQUIREMENTS</b><br><b>STUDY QUESTIONS</b><br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | LCAT Rel. 1.0.4<br>ISSUED: 3/31/95<br>STUDY YEAR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 02:03 PM |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| <b>SELECTED QUESTIONS</b>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| <b>CONCERNING - SERVICE SPEC.</b>                                                                                               | 1. Is this Study for a NEW Installation or an ADDITION ? .....<br>2. Is this Study for a SWITCHED or PRIVATE LINE Service ? .....<br>3. Is this Study for Narrow, Wide, or Broadband Services .....<br>4. Is this Study for 2 Wire or 4 Wire Transmission ? .....                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| <b>OFFICE CHAR.</b>                                                                                                             | 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? .....<br>6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? .....<br>7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? .....<br>8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? .....                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| <b>RESULTS SPEC.</b>                                                                                                            | 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? .....<br>9a. If Distance Sensitive, what band increment do you want ? .....<br>10. How many Cost Bands in this study ? .....<br>11. Should this Study result in Investment, Cost, or All values ? .....<br>12. Is this study for Total Incremental or Marginal Costs ? .....<br>13. How many circuits (loops) in this Study ? .....<br>14. The study classification is .....(e.g.: RATES PLAN, TEST DATA, NEW SERVICE)<br>Required for the "Footer" of each Report page. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
|                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>VALID RESPONSE</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>SET</b></td> </tr> <tr> <td>N or A</td> <td>NEW</td> </tr> <tr> <td>S or P</td> <td>SWITCHED</td> </tr> <tr> <td>N, W or B</td> <td>NARROWBAND</td> </tr> <tr> <td>2 or 4</td> <td>2</td> </tr> </table><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>0 → 100</td> <td>100</td> </tr> <tr> <td>0 → 100</td> <td>0</td> </tr> <tr> <td>0 → 100</td> <td></td> </tr> <tr> <td>e.g., 12000</td> <td>18000 Feet</td> </tr> </table><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>For D</td> <td>FLAT RATE</td> </tr> <tr> <td>1,2,3,4</td> <td></td> </tr> <tr> <td>0 → 5</td> <td></td> </tr> <tr> <td>I, C or A</td> <td></td> </tr> <tr> <td>T or M</td> <td></td> </tr> <tr> <td>0 → 100</td> <td></td> </tr> <tr> <td></td> <td>POT INCR</td> </tr> <tr> <td></td> <td>RATES PLAN</td> </tr> </table> |  |                                                                                                                    | <b>SET</b> |  | N or A | NEW | S or P | SWITCHED | N, W or B | NARROWBAND | 2 or 4 | 2 | 0 → 100 | 100 | 0 → 100 | 0 | 0 → 100 |  | e.g., 12000 | 18000 Feet | For D | FLAT RATE | 1,2,3,4 |  | 0 → 5 |  | I, C or A |  | T or M |  | 0 → 100 |  |  | POT INCR |  | RATES PLAN |
| <b>SET</b>                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| N or A                                                                                                                          | NEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| S or P                                                                                                                          | SWITCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| N, W or B                                                                                                                       | NARROWBAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 2 or 4                                                                                                                          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 0 → 100                                                                                                                         | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 0 → 100                                                                                                                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 0 → 100                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| e.g., 12000                                                                                                                     | 18000 Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| For D                                                                                                                           | FLAT RATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 1,2,3,4                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 0 → 5                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| I, C or A                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| T or M                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
| 0 → 100                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
|                                                                                                                                 | POT INCR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |
|                                                                                                                                 | RATES PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                    |            |  |        |     |        |          |           |            |        |   |         |     |         |   |         |  |             |            |       |           |         |  |       |  |           |  |        |  |         |  |  |          |  |            |

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C:\123R24\LCATR032\CRITERIA  
INPUT - STUDY SETUP

## HELP SCREEN

Bellcore

LCAT Rel. 1.0.4  
ISSUED: 3/31/95

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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|                                    |                                                       |                                     |
|------------------------------------|-------------------------------------------------------|-------------------------------------|
| CA123R24\LCATR032\DESIGN           | <b>LOOP COST ANALYSIS TOOL</b>                        | <b>Belcore</b>                      |
| INPUT - LOOP_DESIGN<br>Sheet 1 / 1 | CIRCUIT DESIGN REQUIREMENTS<br>CHARACTERISTICS<br>FOR | LCAT Rel :1.0.4<br>Issued :07/31/95 |
| COMPANY :CINCINNATI BELL TEL.      | INVESTMENT YEAR: 1996                                 | STUDY YR: 1996                      |
| CITY / AREA :CINCINNATI            | LOOP STUDY YEAR: 1996                                 | TEST CASE: 1                        |
| STATE / PROV :OHIO                 | SERVICE CLASS:BAND 3 - BUSINESS PBX                   | LAST UPDATE: 28-Oct-96              |
|                                    |                                                       | TIME: 14:04                         |

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

C:\123R24\LCATR032\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 Xcons at both ends. Currently, this is, *DESIGN* 4, 5, & 6.

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR032\FACILITY                                                                                           |  | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                           |           |                                   |                                    | Bellcore                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------|--|
| TABLE - SPAN_INV<br>SHEET 1 / 4<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |  | LOOP FACILITY INPUT<br>FIBER CABLE DATA<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |           |                                   |                                    | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 14:06 |  |
| <b>FIBER CABLE INVESTMENT AND CHARACTERISTICS</b>                                                                     |  |                                                                                                                                          |           |                                   |                                    |                                                                                                                |  |
| <b>CABLE TYPE MIX (DISTRIBUTION TO CODE) :</b>                                                                        |  | <b>FOR FEEDER SEGMENTS</b>                                                                                                               |           | <b>FOR DISTRIBUTION SEGMENTS</b>  |                                    |                                                                                                                |  |
| Proportion of FIBER cable installations that are ....                                                                 |  | AERIAL                                                                                                                                   | 0.8100    | 0.0000                            | factors                            |                                                                                                                |  |
|                                                                                                                       |  | BURIED                                                                                                                                   | 0.0000    | 0.0000                            | factors                            |                                                                                                                |  |
|                                                                                                                       |  | UNDGRD                                                                                                                                   | 0.1900    | 0.0000                            | factors                            |                                                                                                                |  |
| <b>INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :</b>                                                                 |  |                                                                                                                                          |           |                                   |                                    |                                                                                                                |  |
| Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y / N)                                                      |  | N                                                                                                                                        |           | [Required with (INDIVIDUAL Mode)] |                                    |                                                                                                                |  |
| If not, Update Unit Averages as Follows :                                                                             |  |                                                                                                                                          |           |                                   |                                    |                                                                                                                |  |
| <b>PRIMARY SEGMENT</b>                                                                                                |  |                                                                                                                                          |           |                                   |                                    |                                                                                                                |  |
| Average Unit Investment for FIBER cable, Installed as ....                                                            |  | AERIAL                                                                                                                                   | \$ 0.1930 |                                   |                                    | per fiber pair Foot                                                                                            |  |
|                                                                                                                       |  | BURIED                                                                                                                                   | \$ 0.0000 |                                   |                                    | per fiber pair Foot                                                                                            |  |
|                                                                                                                       |  | UNDGRD                                                                                                                                   | \$ 0.2229 |                                   |                                    | per fiber pair Foot                                                                                            |  |
|                                                                                                                       |  | (to Fiber Hub)                                                                                                                           |           |                                   |                                    |                                                                                                                |  |
| <b>FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT</b>                                                            |  |                                                                                                                                          |           |                                   |                                    |                                                                                                                |  |
| Average Unit Investment for FIBER cable, Installed as ....                                                            |  | AERIAL                                                                                                                                   | \$ 0.1930 | \$ 0.0000                         | per fiber pair Foot                |                                                                                                                |  |
|                                                                                                                       |  | BURIED                                                                                                                                   | \$ 0.0000 | \$ 0.0000                         | per fiber pair Foot                |                                                                                                                |  |
|                                                                                                                       |  | UNDGRD                                                                                                                                   | \$ 0.2229 | \$ 0.0000                         | per fiber pair Foot                |                                                                                                                |  |
|                                                                                                                       |  | (Fiber Hub to Remote Terminal)                                                                                                           |           |                                   | (Remote Terminal to Service Point) |                                                                                                                |  |

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| C:\123R24\LCATR032\FACILITY      |  | <b>LOOP COST ANALYSIS TOOL</b>                                   |  | <b>Bellcore</b>        |
| TABLE - SPAN INV<br>SHEET 1A / 4 |  | LOOP FACILITY INPUT<br>FIBER CABLE DATA - BY CABLE SHEATH DETAIL |  | LCAT R#1: 1.04         |
| COMPANY: CINCINNATI BELL TEL.    |  | FOR                                                              |  | Issued: 07/31/95       |
| CITY / AREA: CINCINNATI          |  | INVESTMENT YEAR: 1996                                            |  | STUDY YR: 1996         |
| STATE/PROV: OHIO                 |  | LOOP STUDY YEAR: 1996                                            |  | TEST CASE: 1           |
|                                  |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                             |  | LAST UPDATE: 28-Oct-96 |
|                                  |  |                                                                  |  | TIME: 14:06            |

### FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

| Cable Sheath Sizes |             | CAPACITY | Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size |        |             |
|--------------------|-------------|----------|-------------------------------------------------------------------|--------|-------------|
|                    |             |          | AERIAL                                                            | BURIED | UNDERGROUND |
|                    |             | INDEX    |                                                                   |        |             |
| 4                  | Fiber Cable | 2 pr     | \$                                                                | \$     | \$          |
| 6                  | Fiber Cable | 3 pr     | \$                                                                | \$     | \$          |
| 12                 | Fiber Cable | 6 pr     | \$                                                                | \$     | \$          |
| 18                 | Fiber Cable | 9 pr     | \$                                                                | \$     | \$          |
| 24                 | Fiber Cable | 12 pr    | \$                                                                | \$     | \$          |
| 36                 | Fiber Cable | 18 pr    | \$                                                                | \$     | \$          |
| 48                 | Fiber Cable | 24 pr    | \$                                                                | \$     | \$          |
| 60                 | Fiber Cable | 30 pr    | \$                                                                | \$     | \$          |
| 72                 | Fiber Cable | 36 pr    | \$                                                                | \$     | \$          |
| 84                 | Fiber Cable | 42 pr    | \$                                                                | \$     | \$          |
| 96                 | Fiber Cable | 48 pr    | \$                                                                | \$     | \$          |
| 144                | Fiber Cable | 72 pr    | \$                                                                | \$     | \$          |
| 192                | Fiber Cable | 96 pr    | \$                                                                | \$     | \$          |
| 216                | Fiber Cable | 108 pr   | \$                                                                | \$     | \$          |

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| C:\123R24\LCATR032\FACILITY                         |  | <b>LOOP COST ANALYSIS TOOL</b>                  |                                 | Bellcore (R)                                                                                                                           |                                 |
|-----------------------------------------------------|--|-------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| TABLE - SPAN INV<br>SHEET 2 / 4                     |  | LOOP FACILITY INPUT<br>COPPER CABLE DATA<br>FOR |                                 | LCAT Rel: 1.0.4<br>Issued: 07/31/95                                                                                                    |                                 |
| COMPANY: CINCINNATI BELL TEL.                       |  | INVESTMENT YEAR: 1996                           |                                 | STUDY YR: 1996                                                                                                                         |                                 |
| CITY / AREA: CINCINNATI                             |  | LOOP STUDY YEAR: 1996                           |                                 | TEST CASE: 1                                                                                                                           |                                 |
| STATE/PROV: OHIO                                    |  | SERVICE CLASS: BAND 3 - BUSINESS PBX            |                                 | LAST UPDATE: 28-Oct-96<br>TIME: 14:06                                                                                                  |                                 |
| <b>COPPER CABLE CHARACTERISTICS AND INVESTMENTS</b> |  |                                                 |                                 |                                                                                                                                        |                                 |
| <b>Cable Gauge Mix:</b>                             |  | <b>FEEDER<br/>SEGMENT</b>                       | <b>DISTRIBUTION<br/>SEGMENT</b> | <b>Unit Investment per Cable Pair Foot<br/>By Cable Type, By Cable Gauge:</b>                                                          |                                 |
| The Proportion of<br>Copper Cable that is ....      |  | <b>GAUGE</b>                                    |                                 | Update Cable Sheath Prices (Required with INDIVIDUAL Model)<br>on the FULL SET Input SHEET ? (Y/N) <span style="float:right;">N</span> |                                 |
|                                                     |  | 26 GA.                                          | 0.1500                          | If not, Update                                                                                                                         |                                 |
|                                                     |  | 24 GA.                                          | 0.8500                          |                                                                                                                                        |                                 |
|                                                     |  | 22 GA.                                          | 0.0000                          |                                                                                                                                        |                                 |
| <b>Cable Type Mix, By Gauge:</b>                    |  |                                                 |                                 | <b>GAUGE</b>                                                                                                                           | <b>FEEDER<br/>SEGMENT</b>       |
| The Proportion of<br>Copper Cable that is ....      |  |                                                 |                                 |                                                                                                                                        | <b>DISTRIBUTION<br/>SEGMENT</b> |
|                                                     |  | 26 GA. AERIAL                                   | 0.8100                          | Average Unit                                                                                                                           |                                 |
|                                                     |  | BURIED                                          | 0.0400                          | Investment for                                                                                                                         |                                 |
|                                                     |  | UNDGRND                                         | 0.1500                          | Copper Cable                                                                                                                           |                                 |
|                                                     |  | 24 GA. AERIAL                                   | 0.8100                          | Installed as ....                                                                                                                      |                                 |
|                                                     |  | BURIED                                          | 0.0400                          |                                                                                                                                        |                                 |
|                                                     |  | UNDGRND                                         | 0.1500                          |                                                                                                                                        |                                 |
|                                                     |  | 22 GA. AERIAL                                   | 0.0000                          |                                                                                                                                        |                                 |
|                                                     |  | BURIED                                          | 0.0000                          |                                                                                                                                        |                                 |
|                                                     |  | UNDGRND                                         | 0.0000                          |                                                                                                                                        |                                 |

NOTE: If the DROP WIRE resource investment is average values, it may be backed out the cost input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input the worksheet.

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| CA123R24LCATR032/FACILITY      |  | LOOP COST ANALYSIS TOOL                                           |  | Bellcore               |  |
|--------------------------------|--|-------------------------------------------------------------------|--|------------------------|--|
| TABLE - SPAN_TKV<br>SHEET 2A/4 |  | LOOP FACILITY INPUT<br>COPPER CABLE DATA - BY CABLE SHEATH DETAIL |  | LCAT Ver: 1.0.4        |  |
| COMPANY: CINCINNATI BELL TEL.  |  | FOR                                                               |  | Issued: 07/31/95       |  |
| CITY / AREA: CINCINNATI        |  | INVESTMENT YEAR: 1996                                             |  | STUDY YR: 1996         |  |
| STATE/PROV: CH.O               |  | LOOP STUDY YEAR: 1996                                             |  | TEST CASE: 1           |  |
|                                |  | SERVICE CLASS: BAND 3 - BUSINESS PBX                              |  | LAST UPDATE: 28-Oct-96 |  |
|                                |  |                                                                   |  | TIME: 14:06            |  |

### COPPER CABLE INVESTMENT REFERENCE TABLE

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

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

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C:\123R24\LCATR032\FACILITY  
TABLE - SPAN\_INV  
SHEET 2 / 4

HELP SCREEN

**Bellcore**<sup>TM</sup>  
LCAT Rel: 1.0.4  
Issued: 07/31/95

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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LCAT

INPUT SCREEN

Page -1-

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LCAT

INPUT SCREEN

Page -2-

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| C:\123R24\LCATR032\FACILITY.WK1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         | LOOP COST ANALYSIS TOOL                           |                                         |                        | Bellcore (R)                                              |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|-----------------------------------------|------------------------|-----------------------------------------------------------|------------------|-----------------------------------------------------------|------------------|--|---------|--|--|---------|--|--|---------------|---------------------------------|------------------|-----------------------------------------|------------------|-----------------------------------------------------------|------------------|-----------------------------------------------------------|------------------|----------------------|-----------------|--|-----------------|--|-----------------|--|-----------------|--|--------|--|----------|--|-------------|--|-------------|--|-------------|--------|--|----------|--|-------------|--|-------------|--|-------------|-----------|--|----------|--|-------------|--|--|--|--|---------|--|----------|---------|--|----------|---------|--|----------|
| SPAN INV - WORKSHEET<br>Sheet 2 / 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         | COPPER CABLE DISTRIBUTIONS MELDING<br>WORKSHEET A |                                         |                        | LCAT Ver: 1.0.4                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         | FACILITY TYPE: COPPER CABLE                       |                                         |                        | Issue Date: 07/31/95                                      |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         | DESIGN TYPE: SUBFEEDER SEGMENT                    |                                         |                        | STUDY YR: 1996                                            |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         | SERVICE CLASS: BAND 3 - BUSINESS PBX              |                                         |                        | TEST CASE: 1996                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |                                                   |                                         |                        | DATE: 1                                                   |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |                                                   |                                         |                        | LAST UPDATE: 26-Oct-96                                    |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |                                                   |                                         |                        | TIME: 14:06                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| MELDED CABLE INVESTMENT PER PAIR FOOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |                                                   |                                         |                        |                                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| DATA<br>DESC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (DISTRIBUTION<br>TO CODE)<br>CABLE TYPE MIX<br>(p...fd) | PER FOOT<br>INVESTMENT<br>(pfi..fd)               | CABLE<br>GAUGE MIX<br>(copper...fd)     | ADJUSTED<br>CABLE TYPE | ADJUSTED<br>PFI                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| CHARACTERISTICS FOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [A]                                                     | [B]                                               | [C]                                     | [D=A*C]                | [E=B*C]                                                   |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| AERIAL @ 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.810000                                                | \$ 0.011300                                       | 0.1500                                  | 0.121500               | \$ 0.001695                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| BURIED @ 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.040000                                                | \$ 0.018900                                       | 0.1500                                  | 0.006000               | \$ 0.002835                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| UNDGRND @ 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.150000                                                | \$ 0.012000                                       | 0.1500                                  | 0.022500               | \$ 0.001800                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| AERIAL @ 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.810000                                                | \$ 0.011300                                       | 0.8500                                  | 0.688500               | \$ 0.009605                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| BURIED @ 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.040000                                                | \$ 0.018900                                       | 0.8500                                  | 0.034000               | \$ 0.016065                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| UNDGRND @ 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.150000                                                | \$ 0.012000                                       | 0.8500                                  | 0.127500               | \$ 0.010200                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| AERIAL @ 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000000                                                | \$ 0.000000                                       | 0.0000                                  | 0.000000               | \$ 0.000000                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| BURIED @ 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000000                                                | \$ 0.000000                                       | 0.0000                                  | 0.000000               | \$ 0.000000                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| UNDGRND @ 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000000                                                | \$ 0.000000                                       | 0.0000                                  | 0.000000               | \$ 0.000000                                               |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| Check = 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |                                                   |                                         |                        |                                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| <table border="1"> <thead> <tr> <th colspan="3">TABLE 2</th> <th colspan="3">TABLE 4</th> <th colspan="3">TABLE 6</th> </tr> <tr> <th>DATA<br/>DESC.</th> <th>CABLE TYPE MIX<br/>RANGE<br/>NAME</th> <th>MELDED<br/>GAUGES</th> <th>PAIR / FOOT INVESTMENT<br/>RANGE<br/>NAME</th> <th>MELDED<br/>GAUGES</th> <th>PAIR / FOOT INVESTMENT<br/>RENORMANIZED<br/>AERIAL / BURIED</th> <th>MELDED<br/>GAUGES</th> <th>PAIR / FOOT INVESTMENT<br/>RENORMANIZED<br/>AERIAL / BURIED</th> <th>MELDED<br/>GAUGES</th> </tr> </thead> <tbody> <tr> <td>CHARACTERISTICS FOR:</td> <td colspan="2">[F=sum(D*TYPE)]</td> <td colspan="2">[G=sum(E*TYPE)]</td> <td colspan="2">[H=sum(F*TYPE)]</td> <td colspan="2">[I=sum(G*TYPE)]</td> </tr> <tr> <td>AERIAL</td> <td></td> <td>0.810000</td> <td></td> <td>\$ 0.011300</td> <td></td> <td>\$ 0.952031</td> <td></td> <td>\$ 0.952031</td> </tr> <tr> <td>BURIED</td> <td></td> <td>0.040000</td> <td></td> <td>\$ 0.018900</td> <td></td> <td>\$ 0.043059</td> <td></td> <td>\$ 0.043059</td> </tr> <tr> <td>UNDERGRND</td> <td></td> <td>0.150000</td> <td></td> <td>\$ 0.012000</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Check =</td> <td>1.000000</td> <td colspan="2">Check =</td> <td>1.006000</td> <td colspan="2">Check =</td> <td>1.006000</td> </tr> </tbody> </table> |                                                         |                                                   |                                         |                        |                                                           |                  | TABLE 2                                                   |                  |  | TABLE 4 |  |  | TABLE 6 |  |  | DATA<br>DESC. | CABLE TYPE MIX<br>RANGE<br>NAME | MELDED<br>GAUGES | PAIR / FOOT INVESTMENT<br>RANGE<br>NAME | MELDED<br>GAUGES | PAIR / FOOT INVESTMENT<br>RENORMANIZED<br>AERIAL / BURIED | MELDED<br>GAUGES | PAIR / FOOT INVESTMENT<br>RENORMANIZED<br>AERIAL / BURIED | MELDED<br>GAUGES | CHARACTERISTICS FOR: | [F=sum(D*TYPE)] |  | [G=sum(E*TYPE)] |  | [H=sum(F*TYPE)] |  | [I=sum(G*TYPE)] |  | AERIAL |  | 0.810000 |  | \$ 0.011300 |  | \$ 0.952031 |  | \$ 0.952031 | BURIED |  | 0.040000 |  | \$ 0.018900 |  | \$ 0.043059 |  | \$ 0.043059 | UNDERGRND |  | 0.150000 |  | \$ 0.012000 |  |  |  |  | Check = |  | 1.000000 | Check = |  | 1.006000 | Check = |  | 1.006000 |
| TABLE 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |                                                   | TABLE 4                                 |                        |                                                           | TABLE 6          |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| DATA<br>DESC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CABLE TYPE MIX<br>RANGE<br>NAME                         | MELDED<br>GAUGES                                  | PAIR / FOOT INVESTMENT<br>RANGE<br>NAME | MELDED<br>GAUGES       | PAIR / FOOT INVESTMENT<br>RENORMANIZED<br>AERIAL / BURIED | MELDED<br>GAUGES | PAIR / FOOT INVESTMENT<br>RENORMANIZED<br>AERIAL / BURIED | MELDED<br>GAUGES |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| CHARACTERISTICS FOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [F=sum(D*TYPE)]                                         |                                                   | [G=sum(E*TYPE)]                         |                        | [H=sum(F*TYPE)]                                           |                  | [I=sum(G*TYPE)]                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| AERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         | 0.810000                                          |                                         | \$ 0.011300            |                                                           | \$ 0.952031      |                                                           | \$ 0.952031      |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| BURIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         | 0.040000                                          |                                         | \$ 0.018900            |                                                           | \$ 0.043059      |                                                           | \$ 0.043059      |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| UNDERGRND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         | 0.150000                                          |                                         | \$ 0.012000            |                                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| Check =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         | 1.000000                                          | Check =                                 |                        | 1.006000                                                  | Check =          |                                                           | 1.006000         |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |
| FOOTNOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         |                                                   |                                         |                        |                                                           |                  |                                                           |                  |  |         |  |  |         |  |  |               |                                 |                  |                                         |                  |                                                           |                  |                                                           |                  |                      |                 |  |                 |  |                 |  |                 |  |        |  |          |  |             |  |             |  |             |        |  |          |  |             |  |             |  |             |           |  |          |  |             |  |  |  |  |         |  |          |         |  |          |         |  |          |

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| C:\123R24\LCATR032\FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                       | <b>LOOP COST ANALYSIS TOOL</b>                     |  | Bellcore (R)                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------|--|-------------------------------------|
| TABLE - SPAN_INV<br>SHEET 3 / 4                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                       | LOOP FACILITY INPUT<br>COPPER PAIR GAIN CABLE DATA |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       | FOR                                                |  | STUDY YR: 1996                      |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       | INVESTMENT YEAR: 1996                              |  | TEST CASE: 1                        |
| STATE/PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                       | LOOP STUDY YEAR: 1996                              |  | LAST UPDATE: 28-Oct-96              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                       | SERVICE CLASS: BAND 3 - BUSINESS PBX               |  | TIME: 14:06                         |
| <b><u>COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS</u></b>                                                                                                                                                                                                                                                                                                                                                                                |                                                                       |                                                    |  |                                     |
| <b><u>FOR DLC SYSTEMS ON COPPER LOOPS</u></b>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |                                                    |  |                                     |
| Cable Gauge :                                                                                                                                                                                                                                                                                                                                                                                                                              | Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :               |                                                    |  | <input type="text" value="24"/>     |
| Pair Gain Factor :                                                                                                                                                                                                                                                                                                                                                                                                                         | (When Investment Utilities or Band Width Mix are NOT Used)            |                                                    |  |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | The Average Number Of Voice Grade Circuit Equivalents Per System :    |                                                    |  | <input type="text" value="96"/>     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | The Average Number Of Transmission Pairs Plus Protection Per System : |                                                    |  | <input type="text" value="10"/>     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :  |                                                    |  | <input type="text" value="2"/>      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ratio Of Required Pairs To Derived Pairs [ Pair Gain Factor ] :       |                                                    |  | <input type="text" value="0.1250"/> |
| <p><b>NOTE:</b></p> <p>① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or <math>(10 + 2) / 96 = 0.125</math>. When applied to segment length it becomes the Effective Length per Pair.</p> |                                                                       |                                                    |  |                                     |

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TABLE - SPAN\_INV  
SHEET 3 / 4

HELP SCREEN

Bellcore (R)

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

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

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

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| CA123R24\LCATR032\FACILITY.WK1                                                                                            |                                                                   | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                         |                                                              | Bellcore <sup>®</sup>                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| SPAN INV - WORKSHEET<br>Sheet 3 / 3<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: OHIO<br>STATE / PROV: CINCINNATI |                                                                   | COPPER CABLE DISTRIBUTIONS MELDING<br>WORKSHEET B<br>FOR<br>FACILITY TYPE: COPPER CABLE for DLC<br>DESIGN TYPE: FEEDER SEGMENT<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |                                                              | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1996<br>DATE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 14:05 |
| INVESTMENT DEVELOPMENT FOR:                                                                                               |                                                                   | MELDED CABLE INVESTMENT PER PAIR FOOT<br>LINE REPEATER EQUIPMENT                                                                                                       |                                                              |                                                                                                                                  |
| DESCRIPTION                                                                                                               | REPEATER<br>SPACING<br>[A]                                        | UNIT<br>REPEATER<br>INVESTMENT<br>[B]                                                                                                                                  | REPEATER<br>INVEST.<br>PER FOOT<br>[C=B/A]                   |                                                                                                                                  |
| LINE REPEATER AT 26 GA.                                                                                                   | 3500                                                              | \$ 0                                                                                                                                                                   | \$ 0.000000                                                  |                                                                                                                                  |
| LINE REPEATER AT 24 GA.                                                                                                   | 4500                                                              | \$ 0                                                                                                                                                                   | \$ 0.000000                                                  |                                                                                                                                  |
| LINE REPEATER AT 22 GA.                                                                                                   | 5500                                                              | \$ 0                                                                                                                                                                   | \$ 0.000000                                                  |                                                                                                                                  |
| TABLE 4 DEVELOPMENT FOR:                                                                                                  |                                                                   | COPPER CABLE UNIT INVESTMENT                                                                                                                                           |                                                              |                                                                                                                                  |
| ADJUSTED<br>PAIR / FOOT INVESTMENT                                                                                        | PAIR / FOOT INVESTMENT<br>BY CODE<br>BY GAUGE<br>2 * (PF1cgg) [D] | REPEATER<br>BY GAUGE<br>BY PTR ggg [E=C]                                                                                                                               | WORKING CHANNEL<br>INVESTMENT / FOOT<br>(ADLCPF1cgg) [F=D+E] | FOR DLC Gauge : 24.00<br>- TABLE 4 -<br>WORKING CHANNEL<br>INVESTMENT / FOOT<br>(ADLCPF1c)                                       |
| AERIAL @ 26 GA.                                                                                                           | \$ 0.022600                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.022600                                                  | \$ 0.022600                                                                                                                      |
| BURIED @ 26 GA.                                                                                                           | \$ 0.037800                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.037800                                                  | \$ 0.037800                                                                                                                      |
| UNDGRND @ 26 GA.                                                                                                          | \$ 0.024000                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.024000                                                  | \$ 0.024000                                                                                                                      |
| AERIAL @ 24 GA.                                                                                                           | \$ 0.022600                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.022600                                                  | \$ 0.022600                                                                                                                      |
| BURIED @ 24 GA.                                                                                                           | \$ 0.037800                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.037800                                                  | \$ 0.037800                                                                                                                      |
| UNDGRND @ 24 GA.                                                                                                          | \$ 0.024000                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.024000                                                  | \$ 0.024000                                                                                                                      |
| AERIAL @ 22 GA.                                                                                                           | \$ 0.000000                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.000000                                                  | \$ 0.000000                                                                                                                      |
| BURIED @ 22 GA.                                                                                                           | \$ 0.000000                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.000000                                                  | \$ 0.000000                                                                                                                      |
| UNDGRND @ 22 GA.                                                                                                          | \$ 0.000000                                                       | \$ 0.000000                                                                                                                                                            | \$ 0.000000                                                  | \$ 0.000000                                                                                                                      |
| NOTES :<br>① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.                         |                                                                   |                                                                                                                                                                        |                                                              |                                                                                                                                  |

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SPAN\_INV  
'4

HELP SCREEN

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

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

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

bec  
coaxinv

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

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C:\123R24\LCATR032\FACTORS

## LOOP COST ANALYSIS TOOL

Bellcore

TABLE - FACTORS  
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES

FOR  
ANNUALIZATION FACTORSINVESTMENT YEAR : 1996  
STUDY YEAR: 1996

LCAT Rel: 1.0.4

Issued: 3/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 17-Jan-97

TIME: 15:22

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

SERVICE CLASS BAND 3 - BUSINESS PBX

## plant list

LAND  
 BUILDING  
 BLDG ENTRANCE CABLE  
 INTRABLDG CABLE  
 AERIAL CABLE (COPPER)  
 BURIED CABLE (COPPER)  
 UNDERGROUND (CU) CA.  
 CO EQPT - LOW CAP TERM  
 CO EQPT - LOW CAP CHAN  
 CO EQPT - HI CAP TERM  
 CO EQPT - HI CAP CHAN  
 CO EQPT - ANALOG SW  
 CO EQPT - DIGITAL SW  
 AERIAL CABLE (FIBER)  
 BURIED CABLE (FIBER)  
 UNDERGROUND (FO) CA.  
 CONNECTORS  
 MISC. COM EQP & PWR  
 POLE LINE  
 CONDUIT

PRICE  
INDEXANNUAL  
COST

|        |        |
|--------|--------|
| 1.0000 | 0.2322 |
| 1.0000 | 0.2937 |
| 1.0000 | 0.3922 |
| 1.0000 | 0.3922 |
| 1.0000 | 0.4033 |
| 1.0000 | 0.3467 |
| 1.0000 | 0.3663 |
| 1.0000 | 0.3881 |
| 1.0000 | 0.3881 |
| 1.0000 | 0.3881 |
| 1.0000 | 0.3881 |
| 1.0000 | 0.0000 |
| 1.0000 | 0.2498 |
| 1.0000 | 0.2988 |
| 1.0000 | 0.2724 |
| 1.0000 | 0.2689 |
| 1.0000 | 0.3581 |
| 1.0000 | 0.3881 |
| 1.0000 | 0.3807 |
| 1.0000 | 0.2521 |

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| C:\123R24\LCATR032\INVEST                                                  |      | <b>LOOP COST ANALYSIS TOOL</b>                               |          |          |                 | <b>Bellcore (R)</b>                 |  |
|----------------------------------------------------------------------------|------|--------------------------------------------------------------|----------|----------|-----------------|-------------------------------------|--|
| TABLE - EQUIP_INV<br>Sheet 1 of 1                                          |      | DATA REFERENCE TABLE<br>EQUIPMENT & OTHER INVESTMENTS<br>FOR |          |          |                 | LCAT Ref: 1.0.4<br>Issued: 07/31/95 |  |
| COMPANY: CINCINNATI BELL TEL                                               |      | INVESTMENT YEAR: 1996                                        |          |          |                 | STUDY YR: 1996                      |  |
| CITY / AREA: CINCINNATI                                                    |      | SERVICE LEVEL: NARBAND                                       |          |          |                 | TEST CASE: 1                        |  |
| STATE / PROV: OHIO                                                         |      | SERVICE CLASS: BAND 3 - BUSINESS PBX                         |          |          |                 | LAST UPDATE: 28-Oct-96<br>14:08     |  |
| EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)        |      | CENTRAL OFFICE                                               |          |          | REMOTE LOCATION |                                     |  |
|                                                                            | LINE | CHANNEL                                                      | TERMINAL | CHANNEL  | TERMINAL        |                                     |  |
| <b>AIR DRYERS INVESTMENT:</b>                                              |      |                                                              |          |          |                 |                                     |  |
| For an AERIAL Installed Cable Pair                                         |      |                                                              | \$ 0.00  |          |                 |                                     |  |
| For a BURIED Installed Cable Pair                                          |      |                                                              | \$ 0.00  |          |                 |                                     |  |
| For an UNDERGROUND Installed Cable Pair                                    |      |                                                              | \$ 0.00  |          |                 |                                     |  |
| <b>CENTRAL OFFICE TERMINATION INVESTMENT :</b>                             |      |                                                              |          |          |                 |                                     |  |
| For each cable pair associated with twisted pair copper cable              |      |                                                              | \$ 79.08 |          |                 |                                     |  |
| For each per cable pair associated with digital loop carrier technology    |      |                                                              | \$ 0.00  |          |                 |                                     |  |
| <b>COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :</b>      |      |                                                              |          |          |                 |                                     |  |
| For each line repeater for one copper digroup (not svc lev)                |      | \$ 0.00                                                      |          |          |                 |                                     |  |
| For an Office Repeater Bay for a T1 Line                                   |      | \$ 0.00                                                      |          |          |                 |                                     |  |
| For a Universal DLC Equipment Arrangement                                  |      | \$ 0.00                                                      | \$ 87.51 | \$ 12.14 | \$ 85.28        | \$ 51.57                            |  |
| For an Integrated DLC Equipment Arrangement                                |      | \$ 0.00                                                      | \$ 0.00  | \$ 0.00  | \$ 85.28        | \$ 51.57                            |  |
| <b>FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :</b> |      |                                                              |          |          |                 |                                     |  |
| 1. For a Hub with nonFiber Extensions or nonHub Arrangement                |      | \$ 19.62                                                     | \$ 2.35  | \$ 18.49 | \$ 2.35         |                                     |  |
| 2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement            |      | \$ 0.00                                                      | \$ 0.00  | \$ 0.00  | \$ 0.00         |                                     |  |
| 3. For a Fiber HUB and Fiber Remote Terminal Arrangement                   |      |                                                              |          | \$ 0.00  | \$ 0.00         |                                     |  |
| 4. For Fiber Ring Hub Arrangements (Extensions)                            |      |                                                              |          | \$ 0.00  | \$ 0.00         |                                     |  |
| <b>CEV HOUSING per CIRCUIT by SERVICE LEVEL :</b>                          |      |                                                              |          |          |                 |                                     |  |
| For CEV's used as fiber hubs for FO Multiplexer equipment                  |      |                                                              |          |          |                 | \$ 0.00                             |  |
| For CEV's used as remote terminals for CDLC equipment                      |      |                                                              |          |          |                 | \$ 8.33                             |  |

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

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C:\123R24\LCATR032\INVEST.WK1

TABLE - EQUIP\_INV

## HELP INFORMATION

Bellcore

LCAT Rel: 1.0.4

Issued: 07/31/95

LCAT Commands      Description

This Command will allow the User -

EDIT

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

CLEAR

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

Line Items      Description

This Equipment Item Represents -

Ofc Rept Bay

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

Integrated DLC

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

Universal DLC

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

See Circuit Designs:

COE Field Item 1

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

2,3,4 &amp; 6

REM Field Item 1

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

2,3,4 &amp; 6

COE Field Item 2

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

1 &amp; 5

REM Field Item 2

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

1 &amp; 5

REM Field Item 3

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

1 &amp; 5

REM Field Item 4

FTL Hubbed Arrangements, RING Span Equip, HUB Sites.

1,2,5 &amp; 6

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

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

PRESS <ENTER> KEY TO RETURN TO THE MAIN MENU

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|                                                                                                                 |        |                                                                                                                                                                     |  |                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|
| CA123R24\LCATR032\LOADING                                                                                       |        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                      |  | Belcore <sup>®</sup>                                                                                          |
| TABLE - ADDNL_INV<br>Sheet 1 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |        | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |  | LCAT Rel: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-95<br>TIME: 14:09 |
| <b>PLANT UTILIZATION FACTORS:</b>                                                                               |        |                                                                                                                                                                     |  |                                                                                                               |
| Land                                                                                                            | 1.0000 | ALL Non-Traffic Sensitive Equipment                                                                                                                                 |  | 1.0000                                                                                                        |
| Building                                                                                                        | 1.0000 | ALL Digital Loop Carrier Equip., or                                                                                                                                 |  | 0.7000                                                                                                        |
| ALL Copper Cables, or                                                                                           |        | CO DLC Channel Unit                                                                                                                                                 |  | 0.7000                                                                                                        |
| Copper Feeder Cable                                                                                             | 0.6000 | REM DLC Channel Unit                                                                                                                                                |  | 0.7000                                                                                                        |
| Copper Distribution Cable                                                                                       | 0.3500 | CO DLC Multiplex System                                                                                                                                             |  | 0.7000                                                                                                        |
| Copper Entrance Cable                                                                                           | 1.0000 | REM DLC Multiplex System                                                                                                                                            |  | 0.7000                                                                                                        |
| Copper Building Cable                                                                                           | 0.3500 | CO Digital Signal Crossconnect Bay                                                                                                                                  |  | 0.7000                                                                                                        |
| Copper Building Terminal                                                                                        | 0.3500 | REM Digital Signal Crossconnect Bay                                                                                                                                 |  | 0.7000                                                                                                        |
| ALL Fiber Cables, or                                                                                            |        | ALL Fiber Optic Multiplex Equip., or                                                                                                                                |  | 1.0000                                                                                                        |
| Fiber Feeder Cable                                                                                              | 0.3300 | CO Fiber Optic Channel Unit                                                                                                                                         |  | 1.0000                                                                                                        |
| Fiber Distribution Cable                                                                                        |        | REM Fiber Optic Channel Unit                                                                                                                                        |  | 1.0000                                                                                                        |
| Fiber Entrance Cable                                                                                            |        | CO Fiber Optic Multiplex System                                                                                                                                     |  | 1.0000                                                                                                        |
| Fiber Building Cable                                                                                            |        | REM Fiber Optic Multiplex System                                                                                                                                    |  | 1.0000                                                                                                        |
| Fiber Building Terminal                                                                                         |        | CO Lightguide Terminating Equipment                                                                                                                                 |  | 1.0000                                                                                                        |
|                                                                                                                 |        | REM Lightguide Terminating Equipment                                                                                                                                |  | 1.0000                                                                                                        |
| Poles                                                                                                           | 1.0000 | Remote Housing: CEV                                                                                                                                                 |  | 1.0000                                                                                                        |
| Conduit                                                                                                         | 1.0000 | PC Hut                                                                                                                                                              |  | 1.0000                                                                                                        |
|                                                                                                                 |        | Comm. Svcs. Cab.                                                                                                                                                    |  | 1.0000                                                                                                        |

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TABLE - ADDNL\_INV  
Sheet 1 of 2

HELP SCREEN

**Bellcore** (R)

LCAT Rel: 1.0.4  
Issued: 3/31/95

NOTE :

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR032\LOADING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                      |  | Bellcore <sup>®</sup>                                                                                         |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
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| TABLE - ADDNL_INV<br>Sheet 2 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |  | LCAT Rel: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 14:09 |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">SEGMENT .....</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">DISTRIBUTION</th> <th style="text-align: center;">FEEDER</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">② use <b>DEFAULT</b></td> </tr> <tr> <td><b>POLE LOADINGS:</b></td> <td></td> <td></td> </tr> <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> <tr> <td><b>CONDUIT LOADINGS:</b></td> <td></td> <td></td> </tr> <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> </tbody> </table> </div> <div style="width: 50%;"> <p><b>DROP WIRE (DW) INVESTMENT ADJUSTMENT:</b></p> <p>The Cable PFI is being Adjusted for DW ? <span style="float: right;">NO</span></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">use <b>DEFAULT</b>      ①      ②</p> <p style="text-align: right;">for: <b>CENT. OFC.</b>      <b>REMOTE SITE</b></p> <p><b>LAND LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or <b>ALL</b> ①</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </tbody> </table> <p><b>BUILDING LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or <b>ALL</b> 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> </tbody> </table> <p><b>MISC. EQUIPMENT &amp; POWER LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or <b>ALL</b> ①</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </tbody> </table> </div> </div> |              |                                                                                                                                                                     |  |                                                                                                               |  | DISTRIBUTION | FEEDER | ② use <b>DEFAULT</b> |  |  | <b>POLE LOADINGS:</b> |  |  | 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 |  |  | <b>CONDUIT LOADINGS:</b> |  |  | 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 |  |  | Aerial Cable |  | Buried Cable |  | Underground Cable |  | Other or <b>ALL</b> ① | 0.0056 | 0.0056 | Digital Loop Carrier | 0.0056 | 0.0056 | Fiber Optic Mux | 0.0056 | 0.0056 | Other or <b>ALL</b> ① | 0.1316 | 0.1316 | Digital Loop Carrier | 0.1316 | 0.1316 | Fiber Optic Mux | 0.1316 | 0.1316 | Other or <b>ALL</b> ① | 0.1127 | 0.1127 | Digital Loop Carrier | 0.1127 | 0.1127 | Fiber Optic Mux | 0.1127 | 0.1127 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DISTRIBUTION | FEEDER                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| ② use <b>DEFAULT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| <b>POLE LOADINGS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| <b>CONDUIT LOADINGS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Aerial Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Buried Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Underground Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                     |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Other or <b>ALL</b> ①                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0056       | 0.0056                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0056       | 0.0056                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0056       | 0.0056                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Other or <b>ALL</b> ①                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.1316       | 0.1316                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.1316       | 0.1316                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1316       | 0.1316                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Other or <b>ALL</b> ①                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.1127       | 0.1127                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.1127       | 0.1127                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1127       | 0.1127                                                                                                                                                              |  |                                                                                                               |  |              |        |                      |  |  |                       |  |  |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                          |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |

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TABLE - ADDNL\_INV  
Sheet 2 of 2

HELP SCREEN**Belcore<sup>(R)</sup>**

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  | fuclf  | _dst | _fdr | Based on underground fiber cable investment relationship to conduit investment  |
| Fiber Cable Conduit Unit Investment    | fuclfi | _dst | _fdr | Per unit length of underground fiber cable effective pair feet placed.          |

## NOTES

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

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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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

| C:\123R24\LCATR032\SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Bellcore                                                                                                       |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|--|---------|------|---------|----|--------------|------|------------|---------|--------------|--------|-------------|-------|---------|---------|-------------------|--|
| INPUT - PLANT_CHAR.<br>Sheet 1 / 5<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS PBX |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LCAT Rel: 1.0.4<br>ISSUED: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 14:13 |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>LOOP TOPOLOGY</b><br>Loop FEEDER Network Configuration Is (S)tar Or (R)ing<br>Average Number Of Hubs In Each Ring<br>Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us<br><br><b>SPAN LENGTHS</b><br>① Average Distance From the Central Office to the Service Access Point<br>② Average Distance From the Serving Area interface to the Service Access Point<br>③ Average Distance From the Remote Terminal to the Serving Area Interface<br>④ Average Distance From the Central Office to the Fiber Hub or S.A.I.<br>⑤ Average Distance From the Fiber Hub to the Remote Terminal |         |                                                                                                                                                                          | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td>27360.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>3479.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>23581.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table> |                                                                                                                | ACTION SEGMENT |  | PRIMARY | STAR | PRIMARY | NA | DISTRIBUTION | STAR | TOTAL LOOP | 27360.0 | DISTRIBUTION | 3479.0 | SUB-PRIMARY | 300.0 | PRIMARY | 23581.0 | PRIMARY-EXTENSION |  |
| ACTION SEGMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STAR    |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA      |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | STAR    |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| TOTAL LOOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 27360.0 |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3479.0  |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| SUB-PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 300.0   |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23581.0 |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY-EXTENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>LOOP LENGTH AT EACH COST BAND</b><br>BAND 1: <input type="text"/><br>BAND 2: <input type="text"/><br>BAND 3: <input type="text"/><br>BAND 4: <input type="text"/><br>BAND 5: <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                            |         |                                                                                                                                                                          | <b>DISTRIBUTION OF COST BANDS IN THE NETWORK</b><br>BAND 1: <input type="text"/><br>BAND 2: <input type="text"/><br>BAND 3: <input type="text"/><br>BAND 4: <input type="text"/><br>BAND 5: <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| LAST <input type="text" value="27360.0"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                          | LAST <input type="text" value="1.0000"/> <input type="text" value="1.0000 Hint"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |

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| C:\123R24\LCATR032\SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | LOOP COST ANALYSIS TOOL                                                        |  | Bellcore (R)                          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|---------------------------------------|--|
| INPUT - PLANT_CHAR.<br>Sheet 1 / 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR |  | LCAT Rel : 1.0.4<br>Issued : 07/31/95 |  |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | INVESTMENT YEAR : 1996                                                         |  | STUDY YR : 1996                       |  |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | LOOP STUDY YEAR : 1996                                                         |  | TEST CASE : 1                         |  |
| STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | SERVICE CLASS: BAND 3 - BUSINESS PEX                                           |  | LAST UPDATE : 28-Oct-96               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                |  | TIME : 14:13                          |  |
| <p align="center"><b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b></p> <p><b>LOOP LENGTH</b><br/>① 27360 FEET</p> <p><b>DROP</b> ② 3479 FEET</p> <p><b>DISTRIBUTION</b> ③ 300.0 FEET</p> <p><b>SUB-PRIMARY</b> ④</p> <p><b>FEEDER</b> ⑤ 23581 FEET</p> <p><b>EXTENSION</b> ⑥</p> <p><b>PRIMARY</b> ⑦</p> <p><b>NETWORK INTERFACE</b> <b>SERVICE ACCESS POINT</b> <b>SERVING AREA INTERFACE</b> <b>REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE / REMOTE NODE / LOOP TRANSFER)</b> <b>FIBER DISTRIBUTION</b> <b>FIBER HUB</b> <b>END OFFICE</b></p> <p align="center"><b>CONFIDENTIAL</b><br/><b>NOTICE MUST BE GIVEN</b><br/><b>PRIOR TO RELEASE TO PUBLIC</b><br/><b>PROVIDED TO PUCO</b></p> |  |                                                                                |  |                                       |  |

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| C:\123R24\LCATRC32\SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | LOOP COST ANALYSIS TOOL            |  | Bellcore <sup>®</sup>                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|---------------------------------------|--|
| INPUT - PLANT CHAR.<br>Sheet 1 of 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | LOOP FACILITY INPUT<br>HELP SCREEN |  | LCAT Rel : 1.0.4<br>Issued : 07/31/95 |  |
| <p><b>AVERAGE NETWORK STUDY -</b></p> <p>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.</p> <p><b>INDIVIDUAL CIRCUIT STUDY -</b></p> <p>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.</p> <p><b>DATA SAMPLE NETWORK STUDY -</b></p> <p>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.</p> <p><b>BANDWIDTH AVERAGING -</b></p> <p>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.</p> |  |                                    |  |                                       |  |
| <p>***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****<br/>***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****</p> <p>PRESS 'ENTER' TO RETURN TO THE MAIN MENU</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                    |  |                                       |  |

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## LOOP COST ANALYSIS TOOL

Bellcore<sup>(R)</sup>INPUT - PLANT CHAR.  
Sheet 2 of 2

## HELP SCREEN

LCAT Rev 11.0.4  
Issued : 07/31/95

## COST DETAILS

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

## LOOP TOPOLOGY

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

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

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR032\SPAN        |                    | LOOP COST ANALYSIS TOOL                                     |                                                     |                                                          |                                                     | Bellcore <sup>®</sup>                                    |                                                     |
|--------------------------------|--------------------|-------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|
| INPUT - PLANT_CHAR             |                    | LOOP FACILITY INPUT                                         |                                                     |                                                          |                                                     | LCAT Rel: 1.0.4                                          |                                                     |
| Sheet 2a / 5                   |                    | FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER |                                                     |                                                          |                                                     | STUDY YR: 1996                                           |                                                     |
| COMPANY: 0                     |                    | INVESTMENT YEAR: 1996                                       |                                                     |                                                          |                                                     | TEST CASE: 1                                             |                                                     |
| CITY/AREA: 0                   |                    | LOOP STUDY YEAR: 1996                                       |                                                     |                                                          |                                                     | LAST UPDATE: 28-Oct-96                                   |                                                     |
| STATE/PROV: 0                  |                    | SERVICE CLASS: BAND 3 - BUSINESS PBX                        |                                                     |                                                          |                                                     | TIME: 14:13                                              |                                                     |
| NETWORK CIRCUIT LAYOUT STUDIES |                    |                                                             |                                                     | WORKSHEET A                                              |                                                     |                                                          |                                                     |
|                                | CAPACITY           |                                                             | AERIAL FIBER                                        |                                                          | BURIED FIBER                                        |                                                          | UNDERGROUND FIBER                                   |
|                                | [C]                | idx                                                         | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>A</sub> ] | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>A</sub> ] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>B</sub> ] | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>B</sub> ] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>U</sub> ] |
|                                |                    |                                                             |                                                     |                                                          |                                                     |                                                          | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E=D/C]      |
| 4                              | FIBER CABLE 2 pr   |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 6                              | FIBER CABLE 3 pr   |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 12                             | FIBER CABLE 6 pr   |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 18                             | FIBER CABLE 9 pr   |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 24                             | FIBER CABLE 12 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 36                             | FIBER CABLE 18 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 48                             | FIBER CABLE 24 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 60                             | FIBER CABLE 30 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 72                             | FIBER CABLE 36 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 84                             | FIBER CABLE 42 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 96                             | FIBER CABLE 48 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 144                            | FIBER CABLE 72 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 192                            | FIBER CABLE 96 pr  |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| 216                            | FIBER CABLE 108 pr |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     |
| CUMULATIVE LENGTHS OF FEEDER:  |                    |                                                             |                                                     |                                                          | EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT:         |                                                          |                                                     |
| AERIAL FIBER SUBTOTAL          |                    |                                                             | 0                                                   |                                                          | AERIAL FIBER SUBTOTAL                               |                                                          |                                                     |
| BURIED FIBER SUBTOTAL          |                    |                                                             | 0                                                   |                                                          | BURIED FIBER SUBTOTAL                               |                                                          |                                                     |
| UNDGRD FIBER SUBTOTAL          |                    |                                                             | 0                                                   |                                                          | UNDGRD FIBER SUBTOTAL                               |                                                          |                                                     |
| FIBER SUBTOTAL                 |                    |                                                             | 0                                                   |                                                          | FIBER SUBTOTAL                                      |                                                          |                                                     |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|---------|--------------|---------|------------------------------------------------------------|---------|
| PLANT CHAR - WORKSHEET 23<br>Sheet 2b / 5                                                                                                                                      |        | LOOP FACILITY INPUT<br>FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |         |              |         | LCAT Rel : 1.0.4<br>Issued : 07/31/95                      |         |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO                                                                                                        |        | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                       |         |              |         | STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE: 28-Oct-96 |         |
|                                                                                                                                                                                |        | SERVICE CLASS: BAND 3 - BUSINESS PBX                                                 |         |              |         | TIME: 14:13                                                |         |
| <b>NETWORK CIRCUIT LAYOUT STUDIES</b>                                                                                                                                          |        |                                                                                      |         | WORKSHEET B  |         |                                                            |         |
| <p>EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A/[F]WKSH C<br/>           CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A]*[C]*UNIT INV FACILITY WKSH B</p> |        |                                                                                      |         |              |         |                                                            |         |
| CAPACITY                                                                                                                                                                       |        | AERIAL FIBER                                                                         |         | BURIED FIBER |         | UNDERGROUND FIBER                                          |         |
| [C]                                                                                                                                                                            | idx    | [A]                                                                                  | [B]     | [A]          | [B]     | [A]                                                        | [B]     |
| For these sizes ...                                                                                                                                                            |        |                                                                                      |         |              |         |                                                            |         |
| 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                                                    |         |
|                                                                                                                                                                                |        | foramt                                                                               |         | foramt       |         | foramt                                                     |         |

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|--------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|--------|--------|----------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|
| INPUT - PLANT CHAR.<br>Sheet 3a / 5                                            |                 | LOOP FACILITY INPUT<br>COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER<br>FOR |        |        | LCAT Rev: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 14:13 |        |        |        |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS   |        |        |                                                                                                                |        |        |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                                                 |                 | WORKSHEET A<br>CUMULATIVE LENGTHS BY CABLE PAIR FOOT                                 |        |        |                                                                                                                |        |        |        |        |        |
| CABLE SHEATH SIZES                                                             | CAPACITY<br>10X | 26 GA.                                                                               |        |        | 24 GA.                                                                                                         |        |        | 22 GA. |        |        |
|                                                                                |                 | AERIAL                                                                               | BURIED | UNDGRD | AERIAL                                                                                                         | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                                                                | 20 pr           |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 50 COPPER CABLE                                                                | 25 pr           |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 80 COPPER CABLE                                                                | 40 pr           |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 100 COPPER CABLE                                                               | 50 pr           |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 140 COPPER CABLE                                                               | 70 pr           |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 200 COPPER CABLE                                                               | 100 pr          |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 400 COPPER CABLE                                                               | 200 pr          |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 600 COPPER CABLE                                                               | 300 pr          |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 800 COPPER CABLE                                                               | 400 pr          |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 1200 COPPER CABLE                                                              | 600 pr          |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 1800 COPPER CABLE                                                              | 900 pr          |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 2400 COPPER CABLE                                                              | 1200 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 3000 COPPER CABLE                                                              | 1500 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 3600 COPPER CABLE                                                              | 1800 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 4200 COPPER CABLE                                                              | 2100 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 4800 COPPER CABLE                                                              | 2400 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 5400 COPPER CABLE                                                              | 2700 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 6000 COPPER CABLE                                                              | 3000 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 7200 COPPER CABLE                                                              | 3600 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| 8400 COPPER CABLE                                                              | 4200 pr         |                                                                                      |        |        |                                                                                                                |        |        |        |        |        |
| SUB TOTALS                                                                     |                 | 0.0                                                                                  | 0.0    | 0.0    | 0.0                                                                                                            | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| TOTALS                                                                         |                 |                                                                                      |        | 0.0    |                                                                                                                |        |        |        |        | 0.0    |

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| C:\123R24\LCATR032\SPAN                                  |         | LOOP COST ANALYSIS TOOL                                                         |        |        |        |        |        | Bellcore                              |        |        |        |
|----------------------------------------------------------|---------|---------------------------------------------------------------------------------|--------|--------|--------|--------|--------|---------------------------------------|--------|--------|--------|
| PLANT CHAR - WORKSHEET 3B<br>Sheet 3b / 5                |         | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |        |        |        |        |        | LCAT Rel : 1.0.4<br>Issued : 07/31/95 |        |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                  |        |        |        |        |        | STUDY YR : 1996<br>TEST CASE : 1      |        |        |        |
| STATE: OHIO                                              |         | SERVICE CLASS: BAND 3 - BUSINESS                                                |        |        |        |        |        | LAST UPDATE: 28-Oct-96<br>TIME: 14:13 |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                           |         |                                                                                 |        |        |        |        |        |                                       |        |        |        |
| WORKSHEET B                                              |         |                                                                                 |        |        |        |        |        |                                       |        |        |        |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT               |         |                                                                                 |        |        |        |        |        |                                       |        |        |        |
| CABLE SHEATH SIZES                                       |         | CAPACITY                                                                        | 26 GA. |        |        | 24 GA. |        |                                       | 22 GA. |        |        |
|                                                          | idx     |                                                                                 | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD                                | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                                          | 20 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 50 COPPER CABLE                                          | 25 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 80 COPPER CABLE                                          | 40 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 100 COPPER CABLE                                         | 50 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 140 COPPER CABLE                                         | 70 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 200 COPPER CABLE                                         | 100 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 400 COPPER CABLE                                         | 200 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 600 COPPER CABLE                                         | 300 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 800 COPPER CABLE                                         | 400 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1200 COPPER CABLE                                        | 600 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1800 COPPER CABLE                                        | 900 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 2400 COPPER CABLE                                        | 1200 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3000 COPPER CABLE                                        | 1500 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3600 COPPER CABLE                                        | 1800 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4200 COPPER CABLE                                        | 2100 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4800 COPPER CABLE                                        | 2400 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 5400 COPPER CABLE                                        | 2700 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 6000 COPPER CABLE                                        | 3000 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 7200 COPPER CABLE                                        | 3600 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 8400 COPPER CABLE                                        | 4200 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| AERIAL CABLE SUBTOTAL                                    |         |                                                                                 | 0.00   |        |        | 0.00   |        |                                       | 0.00   |        |        |
| BURIED CABLE SUBTOTAL                                    |         |                                                                                 |        | 0.00   |        |        | 0.00   |                                       |        | 0.00   |        |
| UNDGRD CABLE SUBTOTAL                                    |         |                                                                                 |        |        | 0.00   |        |        | 0.00                                  |        |        | 0.00   |

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| CA123R24\LCATR032\SPAN         |                 | LOOP COST ANALYSIS TOOL                                      |        |        | Bellcore               |        |        |        |        |        |
|--------------------------------|-----------------|--------------------------------------------------------------|--------|--------|------------------------|--------|--------|--------|--------|--------|
| INPUT - PLANT CHAR.            |                 | LOOP FACILITY INPUT                                          |        |        | LCAT Rel: 1.0.4        |        |        |        |        |        |
| Sheet 4a / 5                   |                 | COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER |        |        | Issued: 07/31/95       |        |        |        |        |        |
| COMPANY: CINCINNATI BELL TEL.  |                 | FOR                                                          |        |        | STUDY YR: 1996         |        |        |        |        |        |
| CITY / AREA: CINCINNATI        |                 | INVESTMENT YEAR: 1996                                        |        |        | TEST CASE: 1           |        |        |        |        |        |
| STATE / PROV: OHIO             |                 | LOOP STUDY YEAR: 1996                                        |        |        | LAST UPDATE: 25-Oct-96 |        |        |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES |                 | SERVICE CLASS: BAND 3 - BUSINESS                             |        |        | TIME: 14:13            |        |        |        |        |        |
|                                |                 | WORKSHEET A                                                  |        |        |                        |        |        |        |        |        |
|                                |                 | CUMULATIVE LENGTHS BY CABLE PAIR FOOT                        |        |        |                        |        |        |        |        |        |
| CABLE SHEATH SIZES             |                 | 26 GA.                                                       |        |        | 24 GA.                 |        |        | 22 GA. |        |        |
|                                | CAPACITY<br>IGX | AERIAL                                                       | BURIED | UNDGRD | AERIAL                 | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                | 20 pr           |                                                              |        |        |                        |        |        |        |        |        |
| 50 COPPER CABLE                | 25 pr           |                                                              |        |        |                        |        |        |        |        |        |
| 80 COPPER CABLE                | 40 pr           |                                                              |        |        |                        |        |        |        |        |        |
| 100 COPPER CABLE               | 50 pr           |                                                              |        |        |                        |        |        |        |        |        |
| 140 COPPER CABLE               | 70 pr           |                                                              |        |        |                        |        |        |        |        |        |
| 200 COPPER CABLE               | 100 pr          |                                                              |        |        |                        |        |        |        |        |        |
| 400 COPPER CABLE               | 200 pr          |                                                              |        |        |                        |        |        |        |        |        |
| 600 COPPER CABLE               | 300 pr          |                                                              |        |        |                        |        |        |        |        |        |
| 800 COPPER CABLE               | 400 pr          |                                                              |        |        |                        |        |        |        |        |        |
| 1200 COPPER CABLE              | 600 pr          |                                                              |        |        |                        |        |        |        |        |        |
| 1800 COPPER CABLE              | 900 pr          |                                                              |        |        |                        |        |        |        |        |        |
| 2400 COPPER CABLE              | 1200 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 3000 COPPER CABLE              | 1500 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 3600 COPPER CABLE              | 1800 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 4200 COPPER CABLE              | 2100 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 4800 COPPER CABLE              | 2400 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 5400 COPPER CABLE              | 2700 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 6000 COPPER CABLE              | 3000 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 7200 COPPER CABLE              | 3600 pr         |                                                              |        |        |                        |        |        |        |        |        |
| 8400 COPPER CABLE              | 4200 pr         |                                                              |        |        |                        |        |        |        |        |        |
| SUB TOTALS                     |                 | 0.0                                                          | 0.0    | 0.0    | 0.0                    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| TOTALS                         |                 |                                                              |        | 0.0    |                        |        | 0.0    |        |        | 0.0    |

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Sheet 5 / 5

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

LOOP FACILITY INPUT

DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX

FOR

INVESTMENT YEAR : 1996

LOOP STUDY YEAR : 1996

SERVICE CLASS : BAND 3 - BUSINESS PBX

LCAT Rel : 1.0.4

Issued : 07/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE : 25-Oct-96

TIME : 14:13

FIBER BANDWIDTH

TRANSMISSION FLOW IS : ☒ UNIDIRECTIONAL

☐ BIDIRECTIONAL

LEVEL OF SERVICE :

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

FOOTNOTES

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

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

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PLANT CHAR. - WORKSHEET DS  
Sheet 1 / 1COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIOLCAT Rel: 1.0.4  
Issued: 07/31/95STUDY YR: 1996  
TEST CASE: 1  
LAST UPDATE: 28-Oct-96  
TIME: 14:13

## WORKSHEET DS

| DIGITAL SIGNAL TABLE (diasig.tbl) |       |           |          |         |         |      |       |               |  |
|-----------------------------------|-------|-----------|----------|---------|---------|------|-------|---------------|--|
| SELECT                            | MODE  | HIERARCHY | BNDWDTH  | DS1MULT | DS3MULT | VGE  | MEDIA |               |  |
| 0                                 |       |           |          |         |         |      |       |               |  |
| 1                                 |       | DS1       | 1.5 Mbps | 1       |         | 0.04 | 24    | BIDIR 2WCU CA |  |
| 2                                 |       | DS1       | 1.5 Mbps | 1       |         | 0.04 | 24    | UNDIR 4WCU CA |  |
| 3                                 | MODE3 | V11       | 5.1 Mbps | 1       |         | 0.04 | 24    | UNDIR FIBER   |  |
| 4                                 |       | V12       | 2 Mbps   | 1       |         | 0    |       | UNDIR FIBER   |  |
| 5                                 |       | E1        | 2 Mbps   | 1       |         | 0.06 | 30    | BIDIR 2WCU CA |  |
| 6                                 | MODE1 | DS1C      | 3.2 Mbps | NA      |         |      | 48    | BIDIR 2WCU CA |  |
| 7                                 | MODE2 | DS1C      | 3.2 Mbps |         | 2       | 0.07 | 48    | BIDIR 2WCU CA |  |
| 8                                 |       | V13       | 3.2 Mbps |         | 2       | 0.07 | 56    | UNDIR FIBER   |  |
| 9                                 |       |           | 4 Mbps   |         | 2       | 0    | 60    |               |  |
| 10                                |       | DS2       | 6.3 Mbps |         | 4       | 0.14 | 72    | BIDIR 2WCU CA |  |
| 11                                | MODE4 | DS2       | 6.3 Mbps | NA      |         | 0    | 72    | BIDIR 2WCU CA |  |
| 12                                |       | V16       | 6.3 Mbps |         | 4       | 0.14 | 84    | UNDIR FIBER   |  |
| 13                                |       | E2        | 8 Mbps   |         | 4       | 0.25 | 120   | BIDIR 2WCU CA |  |
| 14                                |       | E3        | 34 Mbps  |         | 16      |      | 480   |               |  |
| 15                                | X     | DS3       | 45 Mbps  |         | 28      | 1    | 672   | BIDIR 2WCU CA |  |
| 16                                |       | OC1       | 50 Mbps  |         | 28      | 1    | 672   | UNDIR FIBER   |  |
| 17                                | X     |           | 90 Mbps  |         |         | 2    | 1344  | UNDIR FIBER   |  |
| 18                                |       |           | 90 Mbps  |         |         | 2    | 1344  | BIDIR MWRADIO |  |
| 19                                |       | DS4       | 135 Mbps |         |         | 3    | 2016  | UNDIR FIBER   |  |
| 20                                |       |           | 135 Mbps |         |         | 3    | 2016  | BIDIR MWRADIO |  |
| 21                                |       | DS4NA     | 139 Mbps |         |         | 3    | 2016  | UNDIR FIBER   |  |
| 22                                |       | E4        | 140 Mbps |         |         | 3    | 1920  | UNDIR FIBER   |  |
| 23                                |       | 14M       | 139 Mbps |         |         | 6    | 4032  | BIDIR COAX    |  |
| 24                                |       | P140      | 139 Mbps |         |         | 6    | 4032  | BIDIR COAX    |  |
| 25                                | X     | OC3       | 155 Mbps |         |         | 3    | 2016  | UNDIR FIBER   |  |
| 26                                | X     |           | 180 Mbps |         |         | 4    | 2880  | 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   | 6084  | UNDIR FIBER   |  |
| 31                                |       |           | 1.2 Gbps |         |         | 24   | 16128 | UNDIR FIBER   |  |
| 32                                |       |           | 1.7 Gbps |         |         | 36   | 24192 | UNDIR FIBER   |  |
| 33                                |       | OC24      | 1.8 Gbps |         |         | 24   | 24192 | UNDIR FIBER   |  |
| 34                                |       |           | 2.5 Gbps |         |         | 24   | 34560 | UNDIR FIBER   |  |
| 35                                |       |           |          |         |         |      |       |               |  |
| 36                                |       |           |          |         |         |      |       |               |  |
| 0 1 2 3 4 5                       |       |           |          |         |         |      |       |               |  |
| OFFSET                            |       |           |          |         |         |      |       |               |  |

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| PLANT CHAR. - WORKSHEET F<br>Sheet 1 of 1                               |                                                                                   | LOOP LENGTH DEVELOPMENT WORKSHEET                                                                   |                                   |                                                                                                                   |                                                              | LCAT Rel: 1.0.4<br>Issued: 07/31/95                                      |  |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------|--|
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |                                                                                   | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 3 - BUSINESS I<br>WORKSHEET F |                                   |                                                                                                                   |                                                              | STUDY YR.: 1996<br>TEST CASE: 1<br>LAST UPDATE: 28-Oct-96<br>TIME: 14:13 |  |
| [A]<br>BAND<br>NUMBER<br>[C]                                            | DISTANCE INCREMENTS:<br>NUMBER OF BANDS:<br>TOTAL<br>WORKING<br>FEET<br>[D=input] | 0 / 4 MILE BETWEEN BANDS<br>0 TO BE CARRIED INTO THE STUDY<br>TOTAL<br>WORKING<br>FEET<br>[E=(B*D)] | TOTAL<br>AIR<br>FEET<br>[F=A*C*K] | [H]<br>[K]<br>ROUTE TO AIR RATIO:<br>UNIT MILE / FEET CONSTANT:<br>LOOP<br>LENGTH<br>@ MIDPOINT<br>[G (see note)] | 1.539947<br>1320<br>WORKING<br>FEET<br>@ MIDPOINT<br>[H=G*R] | ratio                                                                    |  |
| 1                                                                       |                                                                                   | 0                                                                                                   |                                   | 0                                                                                                                 | 0                                                            | 0                                                                        |  |
| 2                                                                       |                                                                                   | 0                                                                                                   |                                   | 0                                                                                                                 | 0                                                            | 0                                                                        |  |
| 3                                                                       |                                                                                   | 0                                                                                                   |                                   | 0                                                                                                                 | 0                                                            | 0                                                                        |  |
| 4                                                                       |                                                                                   | 0                                                                                                   |                                   | 0                                                                                                                 | 0                                                            | 0                                                                        |  |
| 5                                                                       |                                                                                   | 0                                                                                                   |                                   | 0                                                                                                                 | 0                                                            | 0                                                                        |  |

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

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OHIO ONLY  
3 Geographic Areas

07/26/96  
Revised

**Band 1**

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

| Residence         |                   |              | Business          |                   |              |
|-------------------|-------------------|--------------|-------------------|-------------------|--------------|
| Average F1 Length | Average F2 Length | Average Loop | Average F1 Length | Average F2 Length | Average Loop |
| A                 | B                 | C            | D                 | E                 | F            |
| 6,081             | 1,103             | 7,184        | 5,765             | 638               | 6,403        |
| 107               |                   |              | 255               |                   |              |
| 14,881            | 2,346             | 17,226       | 13,630            | 2,046             | 15,677       |
| 53                |                   |              | 38                |                   |              |
|                   |                   |              |                   |                   |              |
| 0.5744            |                   |              | 0.7433            |                   |              |
| 0.4256            |                   |              | 0.2567            |                   |              |
| 1.0000            |                   |              | 1.0000            |                   |              |

**Band 2**

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

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

**Band 3**

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

|        |       |        |        |       |  |
|--------|-------|--------|--------|-------|--|
| 4,845  | 1,981 | 6,825  | 4,512  |       |  |
| 46     |       |        | 3,881  |       |  |
| 23,301 | 4,826 | 28,127 | 23,301 | 5,608 |  |
| 56     |       |        | 3,479  |       |  |
|        |       |        |        |       |  |
| 0.4510 |       |        | 0.4225 |       |  |
| 0.5490 |       |        | 1.0000 |       |  |
| 1.0000 |       |        |        |       |  |

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**BUSY LINE VERIFICATION/INTERRUPT  
(TELRIC)**

MEI Depo.  
EX. No. 15

CDR 11-2697

## BUSY LINE VERIFICATION / INTERRUPT

BUSY LINE VERIFY / EMERGENCY INTERRUPT COST SUMMARY

| <u>Component</u>        | Busy Line<br>Verification<br>A | Emergency<br>Interrupt<br>B |
|-------------------------|--------------------------------|-----------------------------|
| 1 AT&T Operator Expense | \$0.9426                       | \$1.1060                    |
| 2 OSPS Costs            | \$0.0568                       | \$0.0666                    |
| 3 RISLU Costs           | \$0.0019                       | \$0.0022                    |
| 4 Network Costs         | \$0.0523                       | \$0.0535                    |
| 5 Total Costs per Call  | \$1.0535                       | \$1.2283                    |

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## BUSY LINE VERIFICATION / INTERRUPT

AT&T OPERATOR EXPENSE

1 AT&T Operator Billable Rate per Work Second: \$0.02125

| <u>Service</u>                             | <u>Work Sec.<br/>per Call<br/>A</u> | <u>Labor Cost<br/>Per Call<br/>B=L1*A</u> | <u>Weighting<br/>Factor<br/>C</u> | <u>Weighted Cost<br/>Per Call<br/>D=B*C</u> |
|--------------------------------------------|-------------------------------------|-------------------------------------------|-----------------------------------|---------------------------------------------|
| 2 Busy line verify card                    | 82.61                               | \$1.7555                                  | 0.33%                             | \$0.0058                                    |
| 3 BLV paid                                 | 40.06                               | \$0.8513                                  | 76.46%                            | \$0.6508                                    |
| 4 BLV third                                | 100.80                              | \$2.1420                                  | 0.51%                             | \$0.0108                                    |
| 5 BLV non-revenue                          | 57.00                               | \$1.2113                                  | 22.71%                            | \$0.2750                                    |
| 6 Weighted Average BLV Labor Cost Per Call |                                     |                                           |                                   | \$0.9426                                    |
| 7 Emergency interrupt card                 | 94.38                               | \$2.0056                                  | 7.03%                             | \$0.0206                                    |
| 8 Emergency interrupt paid                 | 50.58                               | \$1.0748                                  | 92.99%                            | \$0.9995                                    |
| 9 Emergency interrupt third                | 82.46                               | \$1.7523                                  | 0.13%                             | \$0.0198                                    |
| 10 Emergency interrupt non-revenue         | 64.10                               | \$1.3621                                  | 4.85%                             | \$0.0661                                    |
| 11 Weighted Average EI Labor Cost Per Call |                                     |                                           |                                   | \$1.1060                                    |

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Source:

L1 - Jim Smith, Operator Services (New rate from Jim as of 20FEB97)

L2-5 & L7-10

Column A

TAB F, PG 1, Col. C, Lines 28-35

Column C

TAB E, PG 3, Col. B

L6 = SUM(D2:D5)

L11 = SUM(D7:D10)

## BUSY LINE VERIFICATION / INTERRUPT

**BUSY LINE VERIFY / EMERGENCY INTERRUPT COST SUMMARY**

| <u>Component</u>        | Busy Line<br>Verification<br>A | Emergency<br>Interrupt<br>B |
|-------------------------|--------------------------------|-----------------------------|
| 1 AT&T Operator Expense | \$0.5491                       | \$0.6443                    |
| 2 OSPS Costs            | \$0.0568                       | \$0.0666                    |
| 3 RISLU Costs           | \$0.0019                       | \$0.0022                    |
| 4 Network Costs         | \$0.0523                       | \$0.0535                    |
| 5 Total Costs per Call  | \$0.6601                       | \$0.7666                    |

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TAB A

COST TOTALS

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DATE 10-10-2001 BY 60322  
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## BUSY LINE VERIFICATION / INTERRUPT

BUSY LINE VERIFY / EMERGENCY INTERRUPT COST SUMMARY

| <u>Component</u>        | Busy Line<br>Verification<br>A | Emergency<br>Interrupt<br>B |
|-------------------------|--------------------------------|-----------------------------|
| 1 AT&T Operator Expense | \$0.5491                       | \$0.6443                    |
| 2 OSPS Costs            | \$0.0568                       | \$0.0666                    |
| 3 RISLU Costs           | \$0.0019                       | \$0.0022                    |
| 4 Network Costs         | \$0.0523                       | \$0.0535                    |
| 5 Total Costs per Call  | \$0.6601                       | \$0.7666                    |

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## Source:

## Line 1

Col. A = TAB A, PG 2, Line 6

Col. B = TAB A, PG 2, Line 11

## Line 2

Col. A = TAB A, PG 3, Col. A, Line 7

Col. B = TAB A, PG 3, Col. B, Line 7

## Line 3

Col. A = TAB A, PG 4, Col. A, Line 3

Col. B = TAB A, PG 4, Col. B, Line 3

## Line 4

Col. A = TAB A, PG 5, Col. A, Line 5

Col. B = TAB A, PG 5, Col. B, Line 5

## Line 5

Col. B = TAB A, PG 12, Col. B, Line 5

## Line 5

=SUM(Line1:Line5)

## BUSY LINE VERIFICATION / INTERRUPT

AT&T OPERATOR EXPENSE

1 AT&amp;T Operator Billable Rate per Work Second: \$0.01238

| <u>Service</u>                             | <u>Work Sec.<br/>per Call<br/>A</u> | <u>Labor Cost<br/>Per Call<br/>B=L1*A</u> | <u>Weighting<br/>Factor<br/>C</u> | <u>Weighted Cost<br/>Per Call<br/>D=B*C</u> |
|--------------------------------------------|-------------------------------------|-------------------------------------------|-----------------------------------|---------------------------------------------|
| 2 Busy line verify card                    | 82.61                               | \$1.0227                                  | 0.33%                             | \$0.0034                                    |
| 3 BLV paid                                 | 40.06                               | \$0.4959                                  | 76.46%                            | \$0.3792                                    |
| 4 BLV third                                | 100.80                              | \$1.2479                                  | 0.51%                             | \$0.0063                                    |
| 5 BLV non-revenue                          | 57.00                               | \$0.7057                                  | 22.71%                            | \$0.1602                                    |
| 6 Weighted Average BLV Labor Cost Per Call |                                     |                                           |                                   | \$0.5491                                    |
| 7 Emergency interrupt card                 | 94.38                               | \$1.1684                                  | 1.03%                             | \$0.0120                                    |
| 8 Emergency interrupt paid                 | 50.58                               | \$0.6252                                  | 92.99%                            | \$0.5823                                    |
| 9 Emergency interrupt third                | 82.46                               | \$1.0209                                  | 1.18%                             | \$0.0115                                    |
| 10 Emergency interrupt non-revenue         | 64.10                               | \$0.7936                                  | 4.85%                             | \$0.0385                                    |
| 11 Weighted Average EI Labor Cost Per Call |                                     |                                           |                                   | \$0.6443                                    |

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Source:

L1 - Jim Smith, Operator Services

L2-5 &amp; L7-10

Column A

TAB F, PG 1, Col. C, Lines 28-35

Column C

TAB E, PG 3, Col. B

L6 = SUM(D2:D5)

L11 = SUM(D7:D10)

## BUSY LINE VERIFICATION / INTERRUPT

OSPS COSTS

| <u>Component</u>                                  | BLV<br>A            | EI<br>B             |
|---------------------------------------------------|---------------------|---------------------|
| 1 Switch Module                                   | \$0.0207            | \$0.0243            |
| 2 Position Switch                                 | \$0.0180            | \$0.0212            |
| 3 Administrative Module                           | \$0.0030            | \$0.0035            |
| 4 Communications Module                           | \$0.0035            | \$0.0041            |
| 5 Common Equipment, Engineering, and Installation | \$0.0104            | \$0.0122            |
| 6 OSPS RTU Fees                                   | \$0.0012            | \$0.0014            |
| 7 Total OSPS Costs per call                       | <del>\$0.0568</del> | <del>\$0.0666</del> |

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## Source:

## Col. A

L1 - TAB B, PG 1, Line 7  
 L2 - TAB B, PG 3, Line 11  
 L3 - TAB B, PG 6, Line 7  
 L4 - TAB B, PG 8, Line 7  
 L5 - TAB B, PG 10, Line 7  
 L6 - TAB B, PG 13, Col. D, Line 3  
 L7 - SUM(L1:L6)

## Col. B

L1 - TAB B, PG 1, Line 13  
 L2 - TAB B, PG 3, Line 17  
 L3 - TAB B, PG 6, Line 13  
 L4 - TAB B, PG 8, Line 13  
 L5 - TAB B, PG 10, Line 13  
 L6 - TAB B, PG 13, Col. D, Line 4  
 L7 - SUM(L1:L6)



## BUSY LINE VERIFICATION / INTERRUPT

RISLU TOTALS PER CALL

|                                  | BLV<br>A | EI<br>B  |
|----------------------------------|----------|----------|
| 1 Total RISLU Cost               | \$0.0010 | \$0.0012 |
| 2 Total Position Costs           | \$0.0008 | \$0.0010 |
| 3 Total RISLU and Position Costs | \$0.0018 | \$0.0022 |

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## SOURCE:

L1, Col. A: TAB C, PG 1, Line 7  
 L1, Col. B: TAB C, PG 1, Line 13  
 L2, Col. A: TAB C, PG 3, Line 7  
 L2, Col. B: TAB C, PG 3, Line 13  
 L3: L1 + L2

## BUSY LINE VERIFICATION / INTERRUPT

NETWORK TOTALS

|                                                          | BLVI<br>A | EI<br>B  |
|----------------------------------------------------------|-----------|----------|
| 1 NCAT Switching and Trunking Costs                      | \$0.0083  | \$0.0089 |
| 2 NCAT Switching Costs (Excluding Trunking)              | \$0.0076  | \$0.0081 |
| 3 Trunking between OSPS and 4ESS (24 Trunks)             | \$0.0052  | \$0.0052 |
| 4 Dedicated Trunking from 4ESS to each CO's (102 Trunks) | \$0.0312  | \$0.0312 |
| 5 Total Network Costs                                    | \$0.0523  | \$0.0535 |

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## Source:

L1, Col A - TAB D, PG 1, Col. E, Line 11  
 L1, Col B - TAB D, PG 1, Col. E, Line 12  
 L2, Col A - TAB D, PG 1, Col. E, Line 13  
 L2, Col B - TAB D, PG 1, Col. E, Line 14  
 L3, Col A - TAB D, PG 5, Line 7  
 L3, Col B - TAB D, PG 5, Line 8  
 L4, Col A - TAB D, PG 7, Line 17  
 L4, Col B - TAB D, PG 7, Line 18  
 L5, Col A - SUM(Col. A, Lines 1-4)  
 L5, Col B - SUM(Col. B, Lines 1-4)

TAB B

OSPS COSTS

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## BUSY LINE VERIFICATION / INTERRUPT

OSPS SWITCH MODULE COSTS

|   |                          |             |
|---|--------------------------|-------------|
| 1 | Switch Module Investment | \$3,448,991 |
|---|--------------------------|-------------|

**Busy Line Verification (BLV)**

|   |                                |             |
|---|--------------------------------|-------------|
| 2 | Percent usage (BLV)            | 0.30%       |
| 3 | Switch Module Investment (BLV) | \$10,201.89 |
| 4 | 377C Annual Charge             | 33.68%      |
| 5 | Annual Cost (BLV)              | \$3,436.00  |
| 6 | Monthly Cost (BLV)             | \$286.33    |
| 7 | Cost per call (BLV)            | \$0.0207    |

**Emergency Interrupt (EI)**

|    |                               |            |
|----|-------------------------------|------------|
| 8  | Percent usage (EI)            | 0.20%      |
| 9  | Switch Module Investment (EI) | \$7,065.62 |
| 10 | 377C Annual Charge            | 33.68%     |
| 11 | Annual Cost (EI)              | \$2,379.70 |
| 12 | Monthly Cost (EI)             | \$198.31   |
| 13 | Cost per call (EI)            | \$0.0243   |

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## SOURCE:

L1 - TAB B, PG 2, Col. D, Line 18

L2 - TAB B, PG 12, Line 13

L3 - L1 \* L2

L4 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs

L5 - L3 \* L4

L6 - L5 / 12

L7 - L6 / TAB E, PG 3, Col. A, Line 5

L8 - TAB B, PG 12, Line 14

L9 - L1 \* L8

L10 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs

L11 - L9 \* L10

L12 - L11 / 12

L13 - L12 / TAB E, PG 3, Col. A, Line 12

| Title: OSPS SWITCH MODULE COSTS           |                                               |                  |                 |
|-------------------------------------------|-----------------------------------------------|------------------|-----------------|
| Description<br>A                          | Sources<br>B                                  | Incremental<br>C | Total<br>D      |
| 1) SCIS Investment                        | See source below                              | \$ 2,537,143.93  | \$ 2,537,143.93 |
| 2) SCIS Spare Capacity                    |                                               | \$ -             | \$ -            |
| 3) Filled Investment                      | Line 1 + Line 2                               | \$ 2,537,143.93  | \$ 2,537,143.93 |
| 4) Telco Engineering Factor               | Network Engineering                           | 11.5%            | 11.5%           |
| 5) Installed Investment                   | Line 3 * (1 + Line 4)                         | \$ 2,828,915.48  | \$ 2,828,915.48 |
| 6) Pwr & Cmn Eqpt Factor                  | Factor File (1994)                            | 1.0000           | 1.0721          |
| 7) Total Digital Switch Investment (377c) | Line 5 * Line 6                               | \$ 2,828,915.48  | \$ 3,032,880.29 |
| 8) Annual Charge Factor (377c)            | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.3368           | 0.3368          |
| 9) Monthly Cost (377c)                    | Line 7 * Line 8 /12                           | \$ 79,398.23     | \$ 85,122.84    |
| 10) Land Factor                           | Factor File (1994)                            | -                | 0.0056          |
| 11) Land Investment (20jc)                | Line 7 * Line 10                              | \$ -             | \$ 16,984.13    |
| 12) Annual Charge Factor (20jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2232           | 0.2232          |
| 13) Monthly Cost (20jc)                   | Line 11 * Line 12 /12                         | \$ -             | \$ 315.96       |
| 14) Bldg Factor                           | Factor File (1994)                            |                  | 0.1316          |
| 15) Bldg Investment (10jc)                | Line 7 * Line 14                              |                  | \$ 399,127.04   |
| 16) Annual Charge Factor (10jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2847           | 0.2847          |
| 17) Monthly Cost (10jc)                   | Line 15 * Line 16 /12                         |                  | \$ 9,469.29     |
| 18) Total Investment                      | Line 7 + Line 11 + Line 15                    | \$ 2,828,915.48  | \$ 3,448,991.46 |
| 19) Total Monthly Cost                    | Line 9 + Line 13 + Line 17                    | \$ 79,398.23     | \$ 94,908.83    |

## Source:

L1 - EN4.60 Station Equipment cost study data, Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 3, Line 1

## BUSY LINE VERIFICATION / INTERRUPT

OSPS POSITION SWITCH MODULE COSTS

|   |                                   |             |
|---|-----------------------------------|-------------|
| 1 | Position Switch Module Investment | \$1,524,788 |
| 2 | Total PSM's                       | 5           |
| 3 | Directory Assistance PSM's        | 3           |
| 4 | T&A PSM's                         | 2           |
| 5 | T&A PSM Investment                | \$609,915   |

**Busy Line Verification (BLV)**

|    |                                            |            |
|----|--------------------------------------------|------------|
| 6  | Percent usage of T&A PSM Investment, (BLV) | 1.46%      |
| 7  | PSM Investment, (BLV)                      | \$8,883.12 |
| 8  | 377C Annual Charge                         | 33.68%     |
| 9  | Annual Cost (BLV)                          | \$2,991.84 |
| 10 | Monthly Cost (BLV)                         | \$249.32   |
| 11 | Cost per call (BLV)                        | \$0.0180   |

**Emergency Interrupt (EI)**

|    |                                           |            |
|----|-------------------------------------------|------------|
| 12 | Percent usage of T&A PSM Investment, (EI) | 1.46%      |
| 13 | PSM Investment, (EI)                      | \$8,883.12 |
| 14 | 377C Annual Charge                        | 33.68%     |
| 15 | Annual Cost (EI)                          | \$2,991.84 |
| 16 | Monthly Cost (EI)                         | \$249.32   |
| 17 | Cost per call (EI)                        | \$0.0180   |

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## BUSY LINE VERIFICATION / INTERRUPT

**SOURCE: OSPS POSITION SWITCH MODULE COSTS**

## SOURCE:

- L1 - TAB B, PG 5, Col. D, Line 18
- L2 - EN4.60 Station Equipment Cost Study Data, Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 5, Line 2
- L3 - EN4.60 Station Equipment Cost Study Data, Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 5, Line 3
- L4 - Line 2 - Line 3
- L5 -  $(L1 / L2) * L4$
- L6 - TAB B, PG 12, Line 15
- L7 -  $L5 * L6$
- L8 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs
- L9 -  $L7 * L8$
- L10 -  $L9 / 12$
- L11 - L10 / TAB E, PG 3, Col. A, Line 5
- L12 - TAB B, PG 12, Line 16
- L13 -  $L5 * L12$
- L14 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs
- L15 -  $L13 * L14$
- L16 -  $L15 / 12$
- L17 - L12 / TAB E, PG 3, Col. A, Line 12

Note: Data for lines 6 and 12 are percentages for T&A usage not total OSPS usage. These percentages were used

| Title: OSPS POSITION MODULE COSTS         |                                               |                  |                 |
|-------------------------------------------|-----------------------------------------------|------------------|-----------------|
| Description<br>A                          | Sources<br>B                                  | Incremental<br>C | Total<br>D      |
| 1) SCIS Investment                        | See source below                              | \$ 1,121,663.00  | \$ 1,121,663.00 |
| 2) SCIS Spare Capacity                    |                                               | \$ -             | \$ -            |
| 3) Filled Investment                      | Line 1 + Line 2                               | \$ 1,121,663.00  | \$ 1,121,663.00 |
| 4) Telco Engineering Factor               | Network Engineering                           | 11.5%            | 11.5%           |
| 5) Installed Investment                   | Line 3 * (1 + Line 4)                         | \$ 1,250,654.25  | \$ 1,250,654.25 |
| 6) Pwr & Cmn Eqpt Factor                  | Factor File (1994)                            | 1.0000           | 1.0721          |
| 7) Total Digital Switch Investment (377c) | Line 5 * Line 6                               | \$ 1,250,654.25  | \$ 1,340,826.42 |
| 8) Annual Charge Factor (377c)            | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.3368           | 0.3368          |
| 9) Monthly Cost (377c)                    | Line 7 * Line 8 /12                           | \$ 35,101.70     | \$ 37,432.53    |
| 10) Land Factor                           | Factor File (1994)                            | -                | 0.0056          |
| 11) Land Investment (20jc)                | Line 7 * Line 10                              | \$ -             | \$ 7,508.63     |
| 12) Annual Charge Factor (20jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2232           | 0.2232          |
| 13) Monthly Cost (20jc)                   | Line 11 * Line 12 /12                         | \$ 139.66        | \$ 139.66       |
| 14) Bldg Factor                           | Factor File (1994)                            | -                | 0.1316          |
| 15) Bldg Investment (10jc)                | Line 7 * Line 14                              | \$ -             | \$ 176,452.76   |
| 16) Annual Charge Factor (10jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2847           | 0.2847          |
| 17) Monthly Cost (10jc)                   | Line 15 * Line 16 /12                         | \$ 4,186.34      | \$ 4,186.34     |
| 18) Total Investment                      | Line 7 + Line 11 + Line 15                    | \$ 1,250,654.25  | \$ 1,524,787.80 |
| 19) Total Monthly Cost                    | Line 9 + Line 13 + Line 17                    | \$ 35,101.70     | \$ 41,958.53    |

## SOURCE:

L1 - EN4.60 Station Equipment Cost Study Data, Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 5, Line 1



## BUSY LINE VERIFICATION / INTERRUPT

OSPS ADMINISTRATIVE MODULE COSTS

|                                     |                                        |            |
|-------------------------------------|----------------------------------------|------------|
| 1                                   | Administrative Module Investment       | \$502,578  |
| <b>Busy Line Verification (BLV)</b> |                                        |            |
| 2                                   | Percent usage (BLV)                    | 0.30%      |
| 3                                   | Administrative Module Investment (BLV) | \$1,486.59 |
| 4                                   | 377C Annual Charge                     | 33.68%     |
| 5                                   | Annual Cost (BLV)                      | \$500.68   |
| 6                                   | Monthly Cost (BLV)                     | \$41.72    |
| 7                                   | Cost per call (BLV)                    | \$0.0030   |
| <b>Emergency Interrupt (EI)</b>     |                                        |            |
| 8                                   | Percent usage (EI)                     | 0.20%      |
| 9                                   | Administrative Module Investment (EI)  | \$1,029.58 |
| 10                                  | 377C Annual Charge                     | 33.68%     |
| 11                                  | Annual Cost (EI)                       | \$346.76   |
| 12                                  | Monthly Cost (EI)                      | \$28.90    |
| 13                                  | Cost per call (EI)                     | \$0.0035   |

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## SOURCE:

- L1 - TAB B, PG 7, Col. D, Line 18
- L2 - TAB B, PG 12, Line 13
- L3 - L1 \* L2
- L4 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs
- L5 - L3 \* L4
- L6 - L5 / 12
- L7 - L6 / TAB E, PG 3, Col. A, Line 5
- L8 - TAB B, PG 12, Line 14
- L9 - L1 \* L8
- L10 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs
- L11 - L9 \* L10
- L12 - L11 / 12
- L13 - L12 / TAB E, PG 3, Col. A, Line 12

| Title: OSPS ADMINISTRATION MODULE COSTS   |                                               |                  |               |
|-------------------------------------------|-----------------------------------------------|------------------|---------------|
| Description<br>A                          | Sources<br>B                                  | Incremental<br>C | Total<br>D    |
| 1) SCIS Investment                        | See source below                              | \$ 369,706.00    | \$ 369,706.00 |
| 2) SCIS Spare Capacity                    |                                               | \$ -             | \$ -          |
| 3) Filled Investment                      | Line 1 + Line 2                               | \$ 369,706.00    | \$ 369,706.00 |
| 4) Telco Engineering Factor               | Network Engineering                           | 11.5%            | 11.5%         |
| 5) Installed Investment                   | Line 3 * (1 + Line 4)                         | \$ 412,222.19    | \$ 412,222.19 |
| 6) Pwr & Cmn Eqpt Factor                  | Factor File (1994)                            | 1.0000           | 1.0721        |
| 7) Total Digital Switch Investment (377c) | Line 5 * Line 6                               | \$ 412,222.19    | \$ 441,943.41 |
| 8) Annual Charge Factor (377c)            | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.3368           | 0.3368        |
| 9) Monthly Cost (377c)                    | Line 7 * Line 8 /12                           | \$ 11,569.70     | \$ 12,403.58  |
| 10) Land Factor                           | Factor File (1994)                            | -                | 0.0056        |
| 11) Land Investment (20jc)                | Line 7 * Line 10                              | \$               | \$ 2,474.88   |
| 12) Annual Charge Factor (20jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2232           | 0.2232        |
| 13) Monthly Cost (20jc)                   | Line 11 * Line 12 /12                         | \$               | \$ 46.03      |
| 14) Bldg Factor                           | Factor File (1994)                            |                  | 0.1316        |
| 15) Bldg Investment (10jc)                | Line 7 * Line 14                              | \$               | \$ 58,159.75  |
| 16) Annual Charge Factor (10jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2847           | 0.2847        |
| 17) Monthly Cost (10jc)                   | Line 15 * Line 16 /12                         | \$               | \$ 1,379.54   |
| 18) Total Investment                      | Line 7 + Line 11 + Line 15                    | \$ 412,222.19    | \$ 502,578.05 |
| 19) Total Monthly Cost                    | Line 9 + Line 13 + Line 17                    | \$ 11,569.70     | \$ 13,829.75  |

## SOURCE:

L1 - EN4.60 Station Equipment Cost Study Data, Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 6, Line 1

## BUSY LINE VERIFICATION / INTERRUPT

OSPS COMMUNICATION MODULE COSTS

|                                     |                                       |            |
|-------------------------------------|---------------------------------------|------------|
| 1                                   | Communications Module Investment      | \$576,491  |
| <b>Busy Line Verification (BLV)</b> |                                       |            |
| 2                                   | Percent usage (BLV)                   | 0.30%      |
| 3                                   | Communication Module Investment (BLV) | \$1,705.22 |
| 4                                   | 377C Annual Charge                    | 33.68%     |
| 5                                   | Annual Cost (BLV)                     | \$574.32   |
| 6                                   | Monthly Cost (BLV)                    | \$47.86    |
| 7                                   | Cost per call (BLV)                   | \$0.0035   |
| <b>Emergency Interrupt (EI)</b>     |                                       |            |
| 8                                   | Percent usage (EI)                    | 0.20%      |
| 9                                   | Communication Module Investment (EI)  | \$1,181.00 |
| 10                                  | 377C Annual Charge                    | 33.68%     |
| 11                                  | Annual Cost (EI)                      | \$397.76   |
| 12                                  | Monthly Cost (EI)                     | \$33.15    |
| 13                                  | Cost per call (EI)                    | \$0.0041   |

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## SOURCE:

L1 - TAB B, PG 9, Col. D, Line 18  
 L2 - TAB B, PG 12, Line 13  
 L3 - L1 \* L2  
 L4 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs  
 L5 - L3 \* L4  
 L6 - L5 / 12  
 L7 - L6 / TAB E, PG 3, Col. A, Line 5  
 L8 - TAB B, PG 12, Line 14  
 L9 - L1 \* L8  
 L10 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs  
 L11 - L9 \* L10  
 L12 - L11 / 12  
 L13 - L12 / TAB E, PG 3, Col. A, Line 12

| Title: OSPS COMMUNICATION MODULE COSTS    |                                               |                  |               |
|-------------------------------------------|-----------------------------------------------|------------------|---------------|
| Description<br>A                          | Sources<br>B                                  | Incremental<br>C | Total<br>D    |
| 1) SCIS Investment                        | See source below                              | \$ 424,078.00    | \$ 424,078.00 |
| 2) SCIS Spare Capacity                    |                                               | \$ -             | \$ -          |
| 3) Filled Investment                      | Line 1 + Line 2                               | \$ 424,078.00    | \$ 424,078.00 |
| 4) Telco Engineering Factor               | Network Engineering                           | 11.5%            | 11.5%         |
| 5) Installed Investment                   | Line 3 * (1 + Line 4)                         | \$ 472,846.97    | \$ 472,846.97 |
| 6) Pwr & Cmn Eqpt Factor                  | Factor File (1994)                            | 1.0000           | 1.0721        |
| 7) Total Digital Switch Investment (377c) | Line 5 * Line 6                               | \$ 472,846.97    | \$ 506,939.24 |
| 8) Annual Charge Factor (377c)            | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.3368           | 0.3368        |
| 9) Monthly Cost (377c)                    | Line 7 * Line 8 /12                           | \$ 13,271.24     | \$ 14,228.09  |
| 10) Land Factor                           | Factor File (1994)                            | -                | 0.0056        |
| 11) Land Investment (20jc)                | Line 7 * Line 10                              | \$ -             | \$ 2,838.86   |
| 12) Annual Charge Factor (20jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2232           | 0.2232        |
| 13) Monthly Cost (20jc)                   | Line 11 * Line 12 /12                         | \$ 52.38         | \$ 52.38      |
| 14) Bldg Factor                           | Factor File (1994)                            | -                | 0.1316        |
| 15) Bldg Investment (10jc)                | Line 7 * Line 14                              | \$ -             | \$ 66,713.20  |
| 16) Annual Charge Factor (10jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2847           | 0.2847        |
| 17) Monthly Cost (10jc)                   | Line 15 * Line 16 /12                         | \$ 1,512.77      | \$ 1,512.77   |
| 18) Total Investment                      | Line 7 + Line 11 + Line 15                    | \$ 472,846.97    | \$ 576,491.30 |
| 19) Total Monthly Cost                    | Line 9 + Line 13 + Line 17                    | \$ 13,271.24     | \$ 15,863.67  |

## SOURCE:

L1 - EN4.60 Station Equipment Cost Study Data, Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 8, Line 1

## BUSY LINE VERIFICATION / INTERRUPT

**OSPS COMMON QUIPMENT, ENGINEERING, AND  
INSTALLATION COSTS**

|   |                                                            |             |
|---|------------------------------------------------------------|-------------|
| 1 | Common Equipment, Engineering, and Installation Investment | \$1,732,163 |
|---|------------------------------------------------------------|-------------|

**Busy Line Verification (BLV)**

|   |                                                            |            |
|---|------------------------------------------------------------|------------|
| 2 | Percent usage (BLV)                                        | 0.30%      |
| 3 | Common Equipment, Engineering, and Installation Investment | \$5,123.62 |
| 4 | 377C Annual Charge                                         | 33.68%     |
| 5 | Annual Cost (BLV)                                          | \$1,725.64 |
| 6 | Monthly Cost (BLV)                                         | \$143.80   |
| 7 | Cost per call (BLV)                                        | \$0.0104   |

**Emergency Interrupt (EI)**

|    |                                                            |            |
|----|------------------------------------------------------------|------------|
| 8  | Percent usage (EI)                                         | 0.20%      |
| 9  | Common Equipment, Engineering, and Installation Investment | \$3,548.52 |
| 10 | 377C Annual Charge                                         | 33.68%     |
| 11 | Annual Cost (EI)                                           | \$1,195.14 |
| 12 | Monthly Cost (EI)                                          | \$99.60    |
| 13 | Cost per call (EI)                                         | \$0.0122   |

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**SOURCE:**

L1 - TAB B, PG 11, Col. D, Line 18  
 L2 - TAB B, PG 12, Line 13  
 L3 - L1 \* L2  
 L4 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs  
 L5 - L3 \* L4  
 L6 - L5 / 12  
 L7 - L6 / TAB E, PG 3, Col. A, Line 5  
 L8 - TAB B, PG 12, Line 14  
 L9 - L1 \* L8  
 L10 - ACF TELRIC, 1/19/97, Total Directly Assigned Costs  
 L11 - L9 \* L10  
 L12 - L11 / 12  
 L13 - L12 / TAB E, PG 3, Col. A, Line 12

| Title: OSPS EQUIPMENT COSTS               |                                               |                  |                 |
|-------------------------------------------|-----------------------------------------------|------------------|-----------------|
| Description<br>A                          | Sources<br>B                                  | Incremental<br>C | Total<br>D      |
| 1) SCIS Investment                        | See source below                              | \$ 1,274,212.00  | \$ 1,274,212.00 |
| 2) SCIS Spare Capacity                    |                                               | \$ -             | \$ -            |
| 3) Filled Investment                      | Line 1 + Line 2                               | \$ 1,274,212.00  | \$ 1,274,212.00 |
| 4) Telco Engineering Factor               | Network Engineering                           | 11.5%            | 11.5%           |
| 5) Installed Investment                   | Line 3 * (1 + Line 4)                         | \$ 1,420,746.38  | \$ 1,420,746.38 |
| 6) Pwr & Cmn Eqpt Factor                  | Factor File (1994)                            | 1.0000           | 1.0721          |
| 7) Total Digital Switch Investment (377c) | Line 5 * Line 6                               | \$ 1,420,746.38  | \$ 1,523,182.19 |
| 8) Annual Charge Factor (377c)            | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.3368           | 0.3368          |
| 9) Monthly Cost (377c)                    | Line 7 * Line 8 /12                           | \$ 39,875.62     | \$ 47,750.65    |
| 10) Land Factor                           | Factor File (1994)                            | -                | 0.0056          |
| 11) Land Investment (20jc)                | Line 7 * Line 10                              | \$ -             | \$ 8,529.82     |
| 12) Annual Charge Factor (20jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2232           | 0.2232          |
| 13) Monthly Cost (20jc)                   | Line 11 * Line 12 /12                         | \$ -             | \$ 158.65       |
| 14) Bldg Factor                           | Factor File (1994)                            |                  | 0.1316          |
| 15) Bldg Investment (10jc)                | Line 7 * Line 14                              | \$ -             | \$ 200,450.78   |
| 16) Annual Charge Factor (10jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2847           | 0.2847          |
| 17) Monthly Cost (10jc)                   | Line 15 * Line 16 /12                         | \$ -             | \$ 4,755.69     |
| 18) Total Investment                      | Line 7 + Line 11 + Line 15                    | \$ 1,420,746.38  | \$ 1,732,162.79 |
| 19) Total Monthly Cost                    | Line 9 + Line 13 + Line 17                    | \$ 39,875.62     | \$ 47,665.00    |

## SOURCE:

L1 - EN4.60 Station Equipment Cost Study Data. Volume 333, Directory Assistance Cost Study  
11JUL96, TAB 2, TAB B, PG 10, Line 1

## BUSY LINE VERIFICATION / INTERRUPT

PERCENT OSPS USAGE (March 1996)

|    |                                                     |             |
|----|-----------------------------------------------------|-------------|
| 1  | T&A CBT Attempts                                    | 562,215     |
| 2  | Average Operator Work Time (seconds)                | 33.46       |
| 3  | Total T&A CBT Operator Work Time (seconds)          | 18,811,714  |
| 4  | CBT Total Percent Usage of OSPS                     | 44.68%      |
| 5  | Total Average Operator Work Time, T&A (seconds)     | 42,103,209  |
| 6  | Total CBT DA Calls                                  | 3,515,000   |
| 7  | Average Operator Work Time, DA (seconds)            | 21.00       |
| 8  | Total CBT Average Operator Work Time, DA (seconds)  | 73,815,000  |
| 9  | Total Average Operator Work Time, DA (seconds)      | 165,208,147 |
| 10 | Total OSPS Average Operator Work Time (seconds)     | 207,311,356 |
| 11 | Total CBT Average Operator Work Time, BLV (seconds) | 613,213.26  |
| 12 | Total CBT Average Operator Work Time, EI (seconds)  | 424,698.88  |
| 13 | Percent Usage of Total OSPS, BLV                    | 0.30%       |
| 14 | Percent Usage of Total OSPS, EI                     | 0.20%       |
| 15 | Percent Usage of T&A, BLV                           | 1.46%       |
| 16 | Percent Usage of T&A, EI                            | 1.01%       |

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## Source:

- Line 1 - TAB F, PG 1, Col. A, Line 00
- Line 2 - TAB F, PG 1, Col. C, Line 00
- Line 3 - Line 1 \* Line 2
- Line 4 - TAB F, PG 6, Col. B, Line 1
- Line 5 - Line 3 / Line 4 (Grossing up amount to find total volume)
- Line 6 - TAB F, PG 1, DA Calls, March 1996
- Line 7 - TAB F, PG 1, Work Time (CST) March 1996
- Line 8 - Line 6 \* Line 7
- Line 9 - Line 8 / Line 4
- Line 10 - Line 9 + Line 5
- Line 11 - TAB E, PG 1, Line 6
- Line 12 - TAB E, PG 1, Line 12
- Line 13 - Line 11 / Line 10
- Line 14 - Line 12 / Line 10
- Line 15 - Line 11 / Line 5
- Line 16 - Line 12 / Line 5

## BUSY LINE VERIFICATION / INTERRUPT

OSPS RTU FEES (Monthly Per Switch)

|                                   |          |
|-----------------------------------|----------|
| 1 Annual Generic Upgrade Expense  | \$64,966 |
| 2 Monthly Generic Upgrade Expense | \$5,414  |

| <u>Service</u>           | % OSPS<br>Usage<br><u>A</u> | Associated<br>Costs<br><u>B=A*L2</u> | Total<br>Calls<br><u>C</u> | Costs<br>per call<br><u>D=B/C</u> |
|--------------------------|-----------------------------|--------------------------------------|----------------------------|-----------------------------------|
| 3 Busy Line Verification | 0.30%                       | \$16.01                              | 73,825                     | \$0.0012                          |
| 4 Emergency Interrupt    | 0.20%                       | \$11.09                              | 8,160                      | \$0.0014                          |

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Source:

L1 = Kathy Himes, Network Eng &amp; Const

L2 - L1 / 12

L3

Col. A - TAB B, PG 12, Line 13

Col. C - TAB E, PG 1, Line 5

L4

Col. A - TAB B, PG 12, Line 14

Col. C - TAB E, PG 1, Line 11



TAB C

RISLU COSTS

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## BUSY LINE VERIFICATION / INTERRUPT

RISLU EQUIPMENT COSTS

|                                     |                                        |           |
|-------------------------------------|----------------------------------------|-----------|
| 1                                   | Total RISLU Equipment Cost             | \$169,308 |
| <b>Busy Line Verification (BLV)</b> |                                        |           |
| 2                                   | Percent usage (BLV)                    | 0.30%     |
| 3                                   | Total RISLU Equipment Investment (BLV) | \$500.80  |
| 4                                   | 377C Annual Charge                     | 33.68%    |
| 5                                   | Annual Cost (BLV)                      | \$168.67  |
| 6                                   | Monthly Cost (BLV)                     | \$14.06   |
| 7                                   | Cost per call (BLV)                    | \$0.0010  |
| <b>Emergency Interrupt (EI)</b>     |                                        |           |
| 8                                   | Percent usage (EI)                     | 0.20%     |
| 9                                   | Total RISLU Equipment Investment (EI)  | \$346.84  |
| 10                                  | 377C Annual Charge                     | 33.68%    |
| 11                                  | Annual Cost (EI)                       | \$116.82  |
| 12                                  | Monthly Cost (EI)                      | \$9.73    |
| 13                                  | Cost per call (EI)                     | \$0.0012  |

## SOURCE:

L1: TAB C, PG 2, Col. D, Line 18  
 L2: TAB B, PG 12, Line 13  
 L3: L1 \* L2  
 L4: ACF TELRIC, 1/19/97, Total Directly Assigned Costs  
 L5: L3 \* L4  
 L6: L5 / 12  
 L7: L6 / TAB E, PG 3, Col. A, Line 5  
 L8: TAB B, PG 12, Line 14  
 L9: L1 \* L8  
 L10: ACF TELRIC, 1/19/97, Total Directly Assigned Costs  
 L11: L9 \* L10  
 L12: L11 / 12  
 L13: L12 / TAB E, PG 3, Col. A, Line 12

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| Title: 377 RISLU COSTS                    |                                               |                  |               |
|-------------------------------------------|-----------------------------------------------|------------------|---------------|
| Description<br>A                          | Sources<br>B                                  | Incremental<br>C | Total<br>D    |
| 1) SCIS Investment                        | Mike Bishop, Accounting                       | \$ 124,546.00    | \$ 124,546.00 |
| 2) SCIS Spare Capacity                    |                                               | \$ -             | \$ -          |
| 3) Filled Investment                      | Line 1 + Line 2                               | \$ 124,546.00    | \$ 124,546.00 |
| 4) Telco Engineering Factor               | Network Engineering                           | 11.5%            | 11.5%         |
| 5) Installed Investment                   | Line 3 * (1 + Line 4)                         | \$ 138,868.79    | \$ 138,868.79 |
| 6) Pwr & Cmn Eqpt Factor                  | Factor File (1994)                            | 1.0000           | 1.0721        |
| 7) Total Digital Switch Investment (377c) | Line 5 * Line 6                               | \$ 138,868.79    | \$ 148,881.23 |
| 8) Annual Charge Factor (377c)            | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.3368           | 0.3368        |
| 9) Monthly Cost (377c)                    | Line 7 * Line 8 / 12                          | \$ 3,897.58      | \$ 4,175.00   |
| 10) Land Factor                           | Factor File (1994)                            | -                | 0.0056        |
| 11) Land Investment (20jc)                | Line 7 * Line 10                              | \$ -             | \$ 833.73     |
| 12) Annual Charge Factor (20jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2232           | 0.2232        |
| 13) Monthly Cost (20jc)                   | Line 11 * Line 12 / 12                        | \$ -             | \$ 18.51      |
| 14) Bldg Factor                           | Factor File (1994)                            | -                | 0.1316        |
| 15) Bldg Investment (10jc)                | Line 7 * Line 14                              | \$ -             | \$ 19,592.77  |
| 16) Annual Charge Factor (10jc)           | 1996 ACF TELRIC,<br>Intrastate Ohio - 1/19/97 | 0.2847           | 0.2847        |
| 17) Monthly Cost (10jc)                   | Line 15 * Line 16 / 12                        | \$ -             | \$ 4,634.44   |
| 18) Total Investment                      | Line 7 + Line 11 + Line 15                    | \$ 138,868.79    | \$ 169,307.73 |
| 19) Total Monthly Cost                    | Line 9 + Line 13 + Line 17                    | \$ 3,897.58      | \$ 4,658.95   |

## BUSY LINE VERIFICATION / INTERRUPT

**RISLU POSITION COSTS**

|                                     |                                                       |           |
|-------------------------------------|-------------------------------------------------------|-----------|
| 1                                   | Total Position Costs, (Workstation, CRT, & Equipment) | \$107,894 |
| <b>Busy Line Verification (BLV)</b> |                                                       |           |
| 2                                   | Percent usage (BLV)                                   | 0.30%     |
| 3                                   | Total RISLU Investment (BLV)                          | \$319.14  |
| 4                                   | 117C Annual Charge                                    | 44.10%    |
| 5                                   | Annual Cost (BLV)                                     | \$140.74  |
| 6                                   | Monthly Cost (BLV)                                    | \$11.73   |
| 7                                   | Cost per call (BLV)                                   | \$0.0008  |
| <b>Emergency Interrupt (EI)</b>     |                                                       |           |
| 8                                   | Percent usage (EI)                                    | 0.20%     |
| 9                                   | Total RISLU Investment (EI)                           | \$221.03  |
| 10                                  | 117C Annual Charge                                    | 44.10%    |
| 11                                  | Annual Cost (EI)                                      | \$97.48   |
| 12                                  | Monthly Cost (EI)                                     | \$8.12    |
| 13                                  | Cost per call (EI)                                    | \$0.0010  |

## SOURCE:

- L1: Mike Bishop, Accounting. This is the CBT portion (45%) of the positions only, RISLU switching costs are not included.
- L2: TAB B, PG 12, Line 13
- L3: L1 \* L2
- L4: ACF TELRIC, 1/19/97, Total Directly Assigned Costs
- L5: L3 \* L4
- L6: L5 / 12
- L7: L6 / TAB E, PG 3, Col. A, Line 5
- L8: TAB B, PG 12, Line 14
- L9: L1 \* L8
- L10: ACF TELRIC, 1/19/97, Total Directly Assigned Costs
- L11: L9 \* L10
- L12: L11 / 12
- L13: L12 / TAB E, PG 3, Col. A, Line 12

Note: Furniture costs were not included. CBT does not own any of the furniture at these positions per the AT&T contract & Bill Hersch.

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TAB D

NETWORK COSTS

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## BUSY LINE VERIFICATION / INTERRUPT

LOCAL NETWORK USAGE

| <u>Service</u>                             | Work Sec.<br>per Call<br><u>A</u> | Weighting<br>Factor<br><u>B</u> | Weighted<br>Work Sec.<br><u>C=A*B</u> |
|--------------------------------------------|-----------------------------------|---------------------------------|---------------------------------------|
| <b>BLV</b>                                 |                                   |                                 |                                       |
| 1 Busy line verify card                    | 82.61                             | 0.33%                           | 0.27                                  |
| 2 BLV paid                                 | 40.06                             | 76.46%                          | 30.63                                 |
| 3 BLV third                                | 100.80                            | 0.51%                           | 0.51                                  |
| 4 BLV non-revenue                          | 57.00                             | 22.71%                          | 12.94                                 |
| <b>5 Total Weighted Work Seconds (BLV)</b> |                                   |                                 | <b>44.36</b>                          |
| <b>EI</b>                                  |                                   |                                 |                                       |
| 6 Emergency interrupt card                 | 94.38                             | 1.03%                           | 0.97                                  |
| 7 Emergency interrupt paid                 | 50.58                             | 92.99%                          | 47.03                                 |
| 8 Emergency interrupt third                | 82.46                             | 1.13%                           | 0.93                                  |
| 9 Emergency interrupt non-revenue          | 64.10                             | 4.85%                           | 3.11                                  |
| <b>10 Total Weighted Work Seconds (EI)</b> |                                   |                                 | <b>52.05</b>                          |

## NCAT SWITCHING AND TRUNKING COSTS

| <u>Service</u>            | Setup<br>Costs<br><u>(A)</u> | Duration<br>of call<br><u>(B)</u> | Work Sec.<br>per Call<br><u>(C)</u> | MOU<br>per Call<br><u>D=C/60</u> | Cost<br>per call<br><u>E=A+(B*D)</u> |
|---------------------------|------------------------------|-----------------------------------|-------------------------------------|----------------------------------|--------------------------------------|
| 11 Busy Line Verification | 0.004827                     | 0.004752                          | 44.36                               | 0.7393                           | \$0.0083                             |
| 12 Emergency Interrupt    | 0.004827                     | 0.004752                          | 52.05                               | 0.8674                           | \$0.0089                             |

## NCAT SWITCHING COSTS

| <u>Service</u>            | Setup<br>Costs<br><u>(A)</u> | Duration<br>of call<br><u>(B)</u> | Work Sec.<br>per Call<br><u>(C)</u> | MOU<br>per Call<br><u>D=C/60</u> | Cost<br>per call<br><u>E=A+(B*D)</u> |
|---------------------------|------------------------------|-----------------------------------|-------------------------------------|----------------------------------|--------------------------------------|
| 13 Busy Line Verification | 0.004606                     | 0.004070                          | 44.36                               | 0.7393                           | \$0.0076                             |
| 14 Emergency Interrupt    | 0.004606                     | 0.004070                          | 52.05                               | 0.8674                           | \$0.0081                             |

## BUSY LINE VERIFICATION / INTERRUPT

SOURCE: LOCAL NETWORK USAGE

## SOURCE:

## Col. A.

Lines 1-4 - TAB F, PG 1, Col. C, Lines 29 - 31

Lines 6-9 - TAB F, PG 1, Col. C, Lines 32 - 35

## Col. B.

Lines 1-4 - TAB E, PG 3, Col. B, Lines 1 - 4

Lines 6-9 - TAB E, PG 3, Col. B, Lines 8 - 11

Line 5, Col. C - SUM(Col. C, Lines 1 - 4)

Line 10, Col. C - SUM(Col. C, Lines 6 - 9)

## Col. A

Lines 11-12 - TAB D, PG 3, Col. E, Line 8

Lines 13-14 - TAB D, PG 4, Col. E, Line 8

## Col. B

Lines 11-12 - TAB D, PG 3, Col. E, Line 12

Lines 13-14 - TAB D, PG 4, Col. E, Line 12

## Col. C

Line 11 = Line 5

Line 12 = Line 10

Line 13 = Line 5

Line 14 = Line 10

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## BUSY LINE VERIFY / INTERRUPT

NCAT INTEROFFICE COSTS (END OFFICE TO END OFFICE. INCLUDES TRUNKS)

|       | Messages<br>A         | B=A%  | Minutes<br>C          | D=C%  | Avg Min. / Msg<br>E=C/A |   |
|-------|-----------------------|-------|-----------------------|-------|-------------------------|---|
|       | 41,703.134.633        | 30.1% | 92,044,839.993        | 18.2% | 2.207                   | 1 |
|       | 80,318.217.391        | 58.0% | 357,716,579.669       | 70.9% | 4.454                   | 2 |
|       | <u>16,543.594.024</u> | 11.9% | <u>55,054.858.019</u> | 10.9% | <u>3.328</u>            | 3 |
| Total | 138,564.946.048       |       | 504,816,277.681       |       | 3.643                   | 4 |

|            | Costs<br>C | D     | % of Costs<br>E=C*D |   |
|------------|------------|-------|---------------------|---|
| Setup      | 0.004290   | 30.1% | 0.001291            | 5 |
| (Per Call) | 0.005082   | 58.0% | 0.002946            | 6 |
|            | 0.004946   | 11.9% | 0.000591            | 7 |
|            |            |       | <u>0.004827</u>     | 8 |

|          | Costs<br>C | D     | % of Costs<br>E=C*D |    |
|----------|------------|-------|---------------------|----|
| Duration | 0.003576   | 18.2% | 0.000652            | 9  |
| (MOU)    | 0.005168   | 70.9% | 0.003656            | 10 |
|          | 0.004067   | 10.9% | 0.000444            | 11 |
|          |            |       | <u>5 0.004752</u>   | 12 |

These costs are included to cover the costs from the first CO to the Seventh St. OSPS.

Sources: Line 1 - Tab H, Page 2A, TOTAL  
 Line 2 - Tab H, Page 3A, TOTAL  
 Line 3 - Tab H, Page 4A, TOTAL  
 Line 4 - Sum Lines 1-3  
 Lines 5-7, Col C - Tab H, Pages 2C,3C,4C, TOTAL.  
 Lines 5-7, Col D - Lines 1-3, Col B.  
 Line 8 - Col. E, Sum of Lines 5 to 7.  
 Line 9 - 11, Col C - Tab H, Pages 2D,3D,4D, TOTAL  
 Lines 9-11, Col D - Lines 1-3, Col D.  
 Line 12 - Col. E, Sum of Lines 9 to 11.