

**Released  
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Confidential  
Status**

**Case Numbers: 96-922-TP-UNC  
96-974-TP-ATA  
96-1057-TP-UNC**

**Date: 08/11/2008**

**Confidential Documents originally  
filed 2/97- Ameritech Ex 23 Service  
Provider Number Portability Direct  
TELRIC**

This is to certify that the images appearing are an  
accurate and complete reproduction of a case file  
document delivered in the regular course of business  
Technician                      Date Processed 8-11-08

1. A) Service Provider Number Portability Direct - TELRIC  
B) Ameritech Ohio Exhibit 23  
C) Type 4 changes only

2. Tab                      Type Correction

|                      |   |
|----------------------|---|
| 2, prices, all lines | 4 |
| 4, all lines         | 4 |
| 5, cols b, c, d      | 4 |
| 12.1, cols b, c, d   | 4 |

3. No Type 3 changes.

**AMERITECH - OHIO**

**SERVICE PROVIDER NUMBER PORTABILITY  
DIRECT**

**COST STUDY**

TEURIC

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**AMERITECH - OHIO**  
**SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE**  
**DIRECT**

INDEX

SECTION

- |   |                                   |
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| 1 | TOTAL INCREMENTAL COST (TIC) TEST |
| 2 | UNIT COST SUMMARY                 |
| 3 | RECURRING COST SUMMARY            |
| 4 | NONRECURRING COST SUMMARY         |
| 5 | ECONS OUTPUT (NA)                 |

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MARGINAL COST TEST

AMERITECH - OHIO

SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE

DIRECT

|   | Price    | Source     | TELRIC   | Cost Source |
|---|----------|------------|----------|-------------|
| 1 Monthly Cost Per Voice Grade Channel Termination      | \$30.04  | Tab 5,L1d  | \$23.61  | Tab 5,L1a   |
| 2 Monthly Cost Per DS1 Channel Termination              | \$203.35 | Tab 5, L2d | \$159.84 | Tab 5, L2a  |
| 3 Total Monthly Cost Per Ported Number                  | \$0.02   | Tab 5, L5d | \$0.02   | Tab 5, L5a  |
| 4 Monthly Memory Cost Per Office                        | \$0.00   | Tab 5, L6d | \$0.00   | Tab 5, L6a  |
| 5 Nonrecurring Cost Per Voice Grade Channel Termination | \$43.59  | Tab 5,L7d  | \$34.26  | Tab 5,L7a   |
| 6 Nonrecurring Cost Per DS1 Channel Termination         | \$349.07 | Tab 5,L8d  | \$274.38 | Tab 5,L8a   |
| 7 Nonrecurring Cost Per Ported Number                   | \$3.91   | Tab5,L9d   | \$3.07   | Tab5,L9a    |
| 8 Service Ordering Per Occasion                         | \$103.17 | Tab 5,L10d | \$81.10  | Tab 5,L10a  |
| 9 Service Establishment Per Trunk Group                 | \$57.51  | Tab 5,L11d | \$45.20  | Tab 5,L11a  |
| 10 Service Rearrangement                                | \$26.54  | Tab 5,L12d | \$20.86  | Tab 5,L12a  |

Type 4

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## SPNP TOTAL DEMAND FORECAST

|  | <u>1996</u> | <u>1997</u> | <u>1998</u> | <u>Total</u> |
|--|-------------|-------------|-------------|--------------|
| <b>a) Incremental</b>                                      |             |             |             |              |
| - Ohio   | 10,000      | 20,000      | 30,000      | 60,000       |
| <b>b) Cumulative</b>                                       |             |             |             |              |
| - Ohio   | 10,000      | 30,000      | 60,000      | 100,000      |
| <b>c) P/F Factors @13.6% COM</b>                           |             |             |             |              |
|  | 1.00000     | 0.88028     | 0.77490     |              |
| <b>d) Present Value of Incremental Forecast @13.6% COM</b> |             |             |             |              |
| - Ohio   | 10,000      | 17,606      | 23,247      | 50,853       |
| <b>e) Present Value of Cumulative Forecast @13.6% COM</b>  |             |             |             |              |
| - Ohio   | 10,000      | 26,408      | 46,494      | 82,902       |
| <br>   |             |             |             |              |
| - 90% OF DEMAND IS SPNP - REMOTE                           |             |             |             |              |
| - 10% OF DEMAND IS SPNP - DIRECT                           |             |             |             |              |

## Demand For SPNP-Direct

|                                      | a     | b                  | c     | d            |
|--------------------------------------|-------|--------------------|-------|--------------|
|                                      | IL    | Source             | OH    | Source       |
| <b>SPNP - Direct</b>                 |       |                    |       |              |
| 1) Per Ported Number                 |       |                    |       |              |
| - a) Recurring                       | 3,141 | PV of IL Forecast  | 8,290 | Tab 3.1e*.10 |
| - b) Nonrecurring                    | 2,701 | PV of IL Forecast  | 5,085 | Tab 3.1d*.10 |
| 2) Relationship of OH to IL Forecast |       |                    |       |              |
| - a) Recurring                       |       |                    | 2.64  | L1ac/L1aa    |
| - b) Nonrecurring                    |       |                    | 1.88  | L1bc/L1ba    |
| 3) Per VG CT                         |       |                    |       |              |
| - a) Recurring                       | 50    | Tab 3.3L1*.20      | 133   | L3aa*L2ac    |
| - b) Nonrecurring                    | 43    | Tab 3.3L3*.20      | 81    | L3ba*L2bc    |
| 4) Per DS1 CT                        |       |                    |       |              |
| - a) Recurring                       | 201   | Tab 3.3L1*.80      | 530   | L4aa*L2ac    |
| - b) Nonrecurring                    | 173   | Tab 3.3L1*.80      | 325   | L4ba*L2bc    |
| 5) Service Ordering                  | 333   | Tab3.3L4+(L1ba/12) | 626   | L5ba*L2bc    |
| 6) Service Establishment -per TG     | 108   | Tab3.3L4           | 203   | L6ba*L2bc    |
| 7) Service Rearrangement             | 54    | Tab3.3L3*.25       | 102   | L7ba*L2bc    |

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**AMERITECH - ILLINOIS  
 SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE  
 DIRECT**

Tab 3.3

| <b>YEAR</b>  | <b>1996</b> | <b>1997</b> | <b>PW DEMAND</b> |
|--|-------------|-------------|------------------|
| <b>P/F FACTOR (13.6% COM)</b>                                  | 1.00000     | 0.88028     |                  |
| <b>CUMULATIVE FORECAST - DID TRUNKS<br/>PW FORECAST</b>        | 40<br>40    | 240<br>211  | 251              |
| <b>CUM. FORECAST - DID TRUNK GROUPS<br/>PW FORECAST</b>        | 20<br>20    | 120<br>106  | 126              |
| <b>INCREMENTAL FORECAST - DID TRUNKS<br/>PW FORECAST</b>       | 40<br>40    | 200<br>176  | 216              |
| <b>INCREMENTAL FORECAST - DID TRUNK GROUPS<br/>PW FORECAST</b> | 20<br>20    | 100<br>88   | 108              |



**RATE SUMMARY**

**AMERITECH - OHIO**

**SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE  
DIRECT**

|   | <u>Price</u> | <u>Source</u> |
|---|--------------|---------------|
| 1 Monthly Cost Per Voice Grade Channel Termination      | \$30.04      | Tab 5,L1d     |
| 2 Monthly Cost Per DS1 Channel Termination              | \$203.35     | Tab 5, L2d    |
| 3 Monthly Cost Per Ported Number                        | \$0.02       | Tab 5, L5d    |
| 4 Monthly Memory Cost Per Office                        | \$0.00       | Tab 5, L6d    |
| 5 Nonrecurring Cost Per Voice Grade Channel Termination | \$43.59      | Tab 5,L7d     |
| 6 Nonrecurring Cost Per DS1 Channel Termination         | \$349.07     | Tab 5,L8d     |
| 7 Nonrecurring Cost Per Ported Number                   | \$3.91       | Tab5,L9d      |
| 8 Service Ordering Per Occasion                         | \$103.17     | Tab 5,L10d    |
| 9 Service Establishment Per Trunk Group                 | \$57.51      | Tab 5,L11d    |
| 10 Service Rearrangement                                | \$26.54      | Tab 5,L12d    |

Type 4

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**COST SUMMARY**

**AMERITECH - OHIO**

**SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE**

**DIRECT**

|   | a<br>TELRIC | b=a*.1745<br>Shared | c=a*.0977<br>Common | d=a+b+c<br>Total Cost | e<br>TELRIC Source  |
|---|-------------|---------------------|---------------------|-----------------------|---------------------|
| 1 Monthly Cost Per Voice Grade Channel Termination      | \$23.61     | \$4.12              | \$2.31              | \$30.04               | Tabs 12.2+12.2+12.4 |
| 2 Monthly Cost Per DS1 Channel Termination              | \$159.84    | \$27.89             | \$15.62             | \$203.35              | Tab 12.2*12         |
| 3 Monthly Cost Per Number Ported                        | \$ .000021  |                     |                     |                       | Tab 12.5            |
| 4 Monthly Cost Per Telephone Number                     | \$0.02      |                     |                     |                       | WLS Study           |
| 5 Total Monthly Cost Per Ported Number                  | \$ .020021  | \$0.00              | \$0.00              | \$0.02                | L3 + L4             |
| 6 Monthly Memory Cost Per Office                        | \$ .00105   | \$0.00              | \$0.00              | \$0.00                | Tab 12.6            |
| 7 Nonrecurring Cost Per Voice Grade Channel Termination | \$34.26     | \$5.98              | \$3.35              | \$43.59               | Tab 14.1,L10        |
| 8 Nonrecurring Cost Per DS1 Channel Termination         | \$274.38    | \$47.88             | \$26.81             | \$349.07              | Tab 14.1,L11        |
| 9 Nonrecurring Cost Per Ported Number                   | \$3.07      | \$0.54              | \$0.30              | \$3.91                | Tab 14.1,L12        |
| 10 Service Ordering Per Occasion                        | \$81.10     | \$14.15             | \$7.92              | \$103.17              | Tab, 14.1,L8        |
| 11 Service Establishment Per Trunk Group                | \$45.20     | \$7.89              | \$4.42              | \$57.51               | Tab 14.1, L9        |
| 12 Service Rearrangement                                | \$20.86     | \$3.64              | \$2.04              | \$26.54               | Tab 14.1,L13        |

*Type 4*

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**STUDY ASSUMPTIONS**

**AMERITECH - OHIO**

**SERVICE PROVIDER NUMBER PORTABILITY SERVICE**

**DIRECT**

- 1) The input values used in the SCIS Model to calculate the SPNP - Direct investment are:
  - a) Trunk Signalling is Touchtone
  - b) There are 20 Busy Hour DID calls per Trunk
  - c) The Trunks are Digital

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**STUDY PARAMETER CHECKLIST**

1. Study Type: EF&I for 377C, TIC for others
2. Study Completion Date (Month/Year): Dec-96
3. Cost of Money: 13.60%
4. Investment Source:
  - A. SCIS/IN Version: 2.1
  - B. CCSCIS Version: \_\_\_\_\_
  - C. OCAT Version: \_\_\_\_\_
  - D. NCAT Version: \_\_\_\_\_
  - E. Broadgauge Dated: \_\_\_\_\_
  - F. Engineering Source Document Dated: \_\_\_\_\_
  - G. Other: \_\_\_\_\_
5. Labor Rates:
  - A. Directly Assigned: X or Other: \_\_\_\_\_
  - B. Year: 1996
6. Gross Receipts Tax (GRT): Yes \_\_\_\_\_ No X
7. Selling Expenses: Yes \_\_\_\_\_ No \_\_\_\_\_
8. Marketing Expenses: Yes \_\_\_\_\_ No \_\_\_\_\_  
(if "Yes" identify) \_\_\_\_\_
9. Cost Development:
  - A. Ameritech Cost Analysis Resource Manual (Mth/Year): Mar-96
  - B. Specify Contract Period(s): \_\_\_\_\_
10. Deviations from AOE LRSIC: Yes \_\_\_\_\_ No X  
(if "Yes" identify on separate sheet)
11. Other Pertinent Information: \_\_\_\_\_

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## **Study Purpose**

The Ameritech Information Industry Unit has requested a cost study to identify and develop costs associated with introducing Service Provider Number Portability service and its pricing.

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### **Service Description**

Service Provider Number Portability (SPNP) is a service arrangement provided by the Company to AEC's where existing local exchange telecommunications service customers of the Company can change local exchange service providers and retain their existing assigned telephone number while remaining within the same company wire center.

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**RECURRING COST SUMMARY**

**AMERITECH - OHIO**

**SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE**

**DIRECT**

|  | a<br>TELRIC | b=a*.1745<br>Shared | c=a*.0977<br>Common | d=a+b+c<br>Total Cost | e<br>TELRIC Source |
|--|-------------|---------------------|---------------------|-----------------------|--------------------|
| 1 Monthly Cost Per Voice Grade Channel Termination | \$23.61     | \$4.12              | \$2.31              | \$30.04               | Tabs 12.2+12.2     |
| 2 Monthly Cost Per DS1 Channel Termination         | \$159.84    | \$27.89             | \$15.62             | \$203.35              | Tab 12.2*12        |
| 3 Monthly Cost Per Number Ported                   | \$.000021   |                     |                     |                       | Tab 12.5           |
| 4 Monthly Cost Per Telephone Number                | \$0.02      |                     |                     |                       | ULS Study          |
| 5 Total Monthly Cost Per Ported Number             | \$.020021   | \$0.00              | \$0.00              | \$0.02                | L3 + L4            |
| 6 Monthly Memory Cost Per Office                   | \$.00105    | \$0.00              | \$0.00              | \$0.00                | Tab 12.6           |

*Type 4*

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AMERITECH - OHIO  
SPNP - DIRECT  
MONTHLY COST PER TRUNK  
TERMINATION

Tab 12.2

INVESTMENT PER  
TRUNK TERM

|         |          |
|---------|----------|
| 5ESS    | \$285.16 |
| DMS-100 | \$119.97 |
| EWSD    | \$57.60  |

ANNUAL COST  
FACTORS - 377C

|         |        |
|---------|--------|
| 5ESS    | 0.4501 |
| DMS-100 | 0.4655 |
| EWSD    | 0.4974 |

COST PER  
TRUNK TERM

|         |          |
|---------|----------|
| 5ESS    | \$128.35 |
| DMS-100 | \$55.85  |
| EWSD    | \$28.65  |

WEIGHTINGS

|         |         |
|---------|---------|
| 5ESS    | 40.62%  |
| DMS-100 | 39.64%  |
| EWSD    | 19.74%  |
| TOTAL   | 100.00% |

|   |         |
|---|---------|
| ANNUAL<br>WEIGHTED COST<br>PER TRUNK TERM | \$79.93 |
|---|---------|

MONTHLY  
WEIGHTED COST  
PER TRUNK TERM

\$6.66

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**AMERITECH - OHIO  
SPNP - DIRECT  
MONTHLY COST D4 CHANNEL BANK PER DSO**

**Tab 12.3**

**INVESTMENT D4 CHANNEL BANK  
PER DSO**

**\$317.73**

**ANNUAL COST FACTOR  
357C**

**0.3916**

**ANNUAL COST  
D4 CHANNEL BANK  
PER DSO**

**\$124.42**

**MONTHLY COST  
D4 CHANNEL BANK  
PER DSO**

**\$10.37**

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**AMERITECH - OHIO  
SPNP - DIRECT  
MONTHLY COST D4 PLUG-IN UNIT PER DSO**

**Tab 12.4**

**INVESTMENT D4 PLUG-IN UNIT  
PER DSO**

**\$201.55**

**ANNUAL COST FACTOR  
357C**

**0.3916**

**ANNUAL COST  
D4 PLUG-IN UNIT  
PER DSO**

**\$78.93**

**MONTHLY COST  
D4 PLUG-IN UNIT  
PER DSO**

**\$6.58**

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AMERITECH - OHIO  
SPNP - DIRECT  
DIRECTORY NUMBER MONTHLY COST

Tab 12.5

|                                      |             |
|--------------------------------------|-------------|
| INVESTMENT PER DN<br>5ESS            | \$0.00      |
| INVESTMENT PER DN<br>EWSD            | \$0.00      |
| INVESTMENT PER DN<br>DMS-100         | \$.00280    |
| ANNUAL COST FACTOR<br>377C - DMS-100 | 0.4655      |
| MONTHLY COST PER DN - DMS-100        | \$0.0001086 |

WEIGHTINGS

|         |         |
|---------|---------|
| 5ESS    | 40.62%  |
| EWSD    | 39.64%  |
| DMS-100 | 19.74%  |
| TOTAL   | 100.00% |

|                                 |                    |
|---------------------------------|--------------------|
| MONTHLY<br>WEIGHTED COST PER DN | <b>\$0.0000214</b> |
|---------------------------------|--------------------|

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SPNP - DIRECT

MONTHLY MEMORY COST(PER OFFICE)

DIRECT FIXED  
MEMORY INVESTMENT  
(PER OFFICE)

|         |           |
|---------|-----------|
| 5ESS    | \$0.00000 |
| DMS-100 | \$0.06815 |
| EWSD    | \$0.00000 |

ANNUAL COST  
FACTORS - 377C

|         |        |
|---------|--------|
| 5ESS    | 0.4501 |
| DMS-100 | 0.4655 |
| EWSD    | 0.4974 |

DIRECT FIXED  
MEMORY COST  
(PER OFFICE)

|         |           |
|---------|-----------|
| 5ESS    | \$0.00    |
| DMS-100 | \$0.03172 |
| EWSD    | \$0.00    |

WEIGHTINGS

|         |         |
|---------|---------|
| 5ESS    | 40.62%  |
| DMS-100 | 39.64%  |
| EWSD    | 19.74%  |
| TOTAL   | 100.00% |

|  |           |
|--|-----------|
| ANNUAL WEIGHTED<br>MEMORY COST<br>(PER OFFICE) | \$0.01258 |
|--|-----------|

|   |                  |
|---|------------------|
| MONTHLY WEIGHTED<br>MEMORY COST<br>(PER OFFICE) | <b>\$0.00105</b> |
|---|------------------|

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**INTEROFFICE PLANT AVERAGE INSTALLED UNIT INVESTMENTS BY STATE**  
Factors & Investments for 1996

**PROPRIETARY**

Central Office Terminations

The information contained herein should not be disclosed to unauthorized persons. It is meant solely for use by authorized Ameritech employees.

Ohio  
D

DS3 Termination - One End

- 1 Mux above DS3, O/E Conversion (1-DSX3 (DS3 side)-(Higher Mux-O/E)-1-LGX (CO side) 4,331.08
- 2 DSX-3 Out (DS3 Side) 263.18
- 3 Delivery of DS3 (L1+L2) 4,694.26

DS1 Termination - One End

- 4 Mux above DS3, O/E Conversion per DS1 (L1/28 DS1's per DS3) 182.82
- 5 M13 Mux (1-DSX-1 port + M13 + DSX-3 (DS1 side)) 378.68
- 6 DSX-1 Port, Out 50.35
- 7 Delivery of DS1 from M13 Mux (L4 + L5 + L6) 591.85

DS0 Termination - One End

- 8 Mux above DS3, O/E Conversion per DS0 (L4(24\*.98) DS1's per DS3) 7.37
- 9 M13 Mux (L5(24\*.98)) 17.15
- 10 DSX-1 Port Out, per DS0 (L5(.98\*24)) 2.28
- 11 DS0 Termination, w/o D4 (L8 + L9 + L10) 28.80

D4 Channel Termination per DS0 - One End

- 12 D4 Channel Bank per Circuit, I + O 317.73
- 13 D4 Plug (ZW E & M) 201.55
- 14 DS0 Term Req D4, Incl DS0/Up (L11 + L12 + L13) 548.09

DACS Investment

- 15 DSX-1 ports I+O (2\*L10) 4.56
- 16 DS Adjunct to DSX-1 50.01
- 17 DACS Inv Incl DS1 & Above (L11 + L15 + L16) 81.38

lab 10.2

Ameritech  
SCIS/IN Features 2.1  
Feature: 22. Direct Inward Dialing

Report: Marginal 1: Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 10/14/96 11:43

Technology: SESS

(OH93MOSE:01-24-96 (SE9.2, 02-95))

| Investment Category | Variable  | Direct Fixed per Trunk | Shared Fixed per Trunk | Direct Fixed per Office | Shared Fixed per Office |
|---------------------|-----------|------------------------|------------------------|-------------------------|-------------------------|
| A. Getting Starte   | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| B. CCS              | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| C. Call             | 6.08064   |                        |                        | No Inv.                 | No Inv.                 |
| D. Minimum per Li   | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| E. Hardware         | 279.08324 |                        |                        | No Inv.                 | No Inv.                 |
| F. Memory           | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| G. SSP Octet        | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| H. Total End Offi   | 285.16389 | NA                     | NA                     | No Inv.                 | No Inv.                 |

TOTAL Investment: per Trunk 285.16389 per Office No Inv.

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1a713.5

Ameritech  
SCIS/IN Features 2.1  
Feature: 22. Direct Inward Dialing

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I  
State: OH

Input File: (untitled)

Date: 10/14/96 11:43

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

| Investment Category | Variable  | Direct Fixed per Trunk | Shared Fixed per Trunk | Direct Fixed per Office | Shared Fixed per Office |
|---------------------|-----------|------------------------|------------------------|-------------------------|-------------------------|
| A. Getting Started  | 29.77739  |                        |                        | No Inv.                 | No Inv.                 |
| B. CCS              | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| C. Call             | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| D. Minimum per Li   | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| E. Hardware         | 90.17568  |                        |                        | No Inv.                 | No Inv.                 |
| F. Memory           | 0.01214   |                        |                        | 0.06815                 | No Inv.                 |
| G. SSP Octet        | No Inv.   |                        |                        | No Inv.                 | No Inv.                 |
| H. Total End Offi   | 119.96520 |                        | NA                     | 0.06815                 | No Inv.                 |

TOTAL Investment:                      per Trunk 119.96520                      per Office 0.06815

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12/12/96

Ameritech  
SCIS/IN Features 2.1  
Feature: 22. Direct Inward Dialing

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 10/14/96 11:44

Technology: EWSD

(OH93MOEW:01-24-96 (12, 04-95))

| Investment Category | Variable | Direct Fixed per Trunk | Shared Fixed per Trunk | Direct Fixed per Office | Shared Fixed per Office |
|---------------------|----------|------------------------|------------------------|-------------------------|-------------------------|
| A. Getting starte   | 2.37070  |                        |                        | No Inv.                 | No Inv.                 |
| B. CCS              | No Inv.  |                        |                        | No Inv.                 | No Inv.                 |
| C. Call             | No Inv.  |                        |                        | No Inv.                 | No Inv.                 |
| D. Minimum per Li   | No Inv.  |                        |                        | No Inv.                 | No Inv.                 |
| E. Hardware         | 55.23050 |                        |                        | No Inv.                 | No Inv.                 |
| F. Memory           | No Inv.  |                        |                        | No Inv.                 | No Inv.                 |
| G. SSP Octet        | No Inv.  |                        |                        | No Inv.                 | No Inv.                 |
| H. Total End Offi   | 57.60119 | NA                     | NA                     | No Inv.                 | No Inv.                 |

TOTAL Investment:

per Trunk 57.60119

per Office No Inv.

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AMERICITECH  
SCIS/IN Features 2.1  
Feature: 22. Direct Inward Dialing

Calculation: Marg-1 E,F&I  
Rate: OH

Input File: (untitled)

Date: 10/14/96 11:43

| Input # | Value    | Description                              |
|---------|----------|--|
| IP1     | 2.00000  | Trunk Signaling is DP (0); MF (1); TT(2) |
| IP2     | 20.00000 | BH DID calls per Trunk                   |
| IP3     | 1.00000  | Trunks are: Analog=0; Digital=1          |

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10/13/96

Ameritech  
SCIS/IN Features 2.1  
Feature: 22. Direct Inward Dialing

Calculation: Marg-1 E.F&I

State: OH

Input File: (untitled)

Date: 10/14/96 11:43

Technology: SESS

Vendor Name: Direct Inward Dialing for PBX

Vendor #: 04-02-0000

Study Name: OH93MOSE:01-24-96 (SE9.2, 02-95)

| MO #  | Value   | Description                     |
|-------|---------|---------------------------------|
| MO2   | 4.62129 | SM Real Time Inv. Per EPHC      |
| MO2.1 | 0.00000 | SM-2000 Real Time Inv. Per EPHC |

SESS Material Discount: 9 %

SESS Engineering and Installation Discount: 0 %

Default Table Items Used:

| DT # | Value    | Description                      |
|------|----------|----------------------------------|
| DT11 | 14.30000 | HDBH calls per trunk termination |

SESS Technology Mix: 40.82 %

**PROPRIETARY**

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Technology: SESS

Calculation: Marginal

Date: 10/14/96 11:43

| Category | Equation(s) | Cost Type |
|----------|-------------|-----------|
|----------|-------------|-----------|

CS - EPHC

$$+ MO2 \times IP2 \times RS22.03 / AT3 \times (1 - SMP)$$

$$+ MO2.1 \times IP2 \times RM22.03 / AT3.01 \times SMP$$

Variable

E1 - Digital Trunk

$$IP(IP3 = 1) + ME6$$

Variable

| Symbol  | Value     | Description                          |
|---------|-----------|--------------------------------------|
| AT3.01  | 16.89000  | Realtime per average EPHC (SM2K)     |
| AT3     | 76.00000  | Realtime per average EPHC            |
| DT11    | 14.30000  | HDBH calls per trunk termination     |
| IP2     | 20.00000  | BH DID calls per Trunk               |
| IP3     | 1.00000   | Trunks are: Analog=0; Digital=1      |
| IT1     | 279.88804 | 1:1 SM term cost (trunks)            |
| IT20    | 65.27963  | Digital trunk + DLTU2                |
| ME6     | 279.08324 | Digital Trunk                        |
| ME6     |           | IT20 - IT1 - DT11 * MO2              |
| MO2.1   | 0.00000   | SM-2000 Real Time Inv. Per EPHC      |
| MO2     | 4.62129   | SM Real Time Inv. Per EPHC           |
| RM22.02 | 1.11000   | Per DID call per trunk               |
| RS22.03 | 5.00000   | Per DID call per trunk               |
| SMP     | 0.00000   | Percent Of Calls On SM-2000s / (100) |

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## Feature: 22. Direct Inward Dialing

Calculation: Marg-1 E,F&amp;I

State: OH Input File: (untitled)

Date: 10/14/96 11:43

Technology: DMS-100

Vendor Name: Direct Inward Dialing

Vendor #: NTXMDC00001

Study Name: OH100F93:01-24-96 (NA004, 10-95)

| MO # | Value   | Description                       |
|------|---------|-----------------------------------|
| MO1  | 0.18381 | Getting Started Inv. Per MS/Cycle |

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 39.35 %

**PROPRIETARY**

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Feature: 22. Direct Inward Dialing

Report: Marginal 1; Marginal

Technology: DMS-100

Calculation: Marginal

Date: 10/14/96 11:43

| Category                      | Equation(s)                       | Cost Type    |
|-------------------------------|-----------------------------------|--------------|
| A - Getting Started           | IF(IP1 = 2) + MO1 x IP2 x RT22.02 | Variable     |
| E1 - Digital Trunk            | IF(IP3 = 1) + ME6                 | Variable     |
| F1 - Program store (DMS only) | + MP22.00 x IT14                  | Direct Fixed |
| F2 - Data Store (DMS only)    | + MD22.00 x IT15                  | Direct Fixed |
| F3 - Data Fill (DMS only)     | + MF22.00 x IT16                  | Variable     |

| Symbol  | Value    | Description                              |
|---------|----------|--|
| IP1     | 2.00000  | Trunk Signaling is DP (0); MF (1); TT(2) |
| IP3     | 1.00000  | Trunks are: Analog=0; Digital=1          |
| IP2     | 20.00000 | BH DID calls per Trunk                   |
| IT16    | 0.00093  | Data Fill cost per word                  |
| IT15    | 0.00093  | Data Store cost per word                 |
| IT14    | 0.00093  | Program Store cost per word              |
| IT9     | 90.17568 | Digital trunk cost                       |
| MD22.00 | 73.00000 | Per Direct Inward Dialing                |
| ME6     | 90.17568 | Digital Trunk                            |
| ME6     |          | IT9                                      |
| MF22.00 | 13.00000 | Per Direct Inward Dialing                |
| MO1     | 0.18381  | Getting Started Inv. Per MS/Cycle        |
| MP22.00 | 0.00000  | Per Direct Inward Dialing                |
| RT22.02 | 8.10000  | Per DID call with TT signaling           |

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Calculation: Marg-1 E,F&amp;I

State: OH

Input File: (untitled)

Date: 10/14/96 11:43

Technology: EWSD

Vendor Name: Direct Inward Dialing

Vendor #: 04-02-0000

Study Name: OH93MOEW:01-24-96 (12, 04-95)

| MO # | Value   | Description                       |
|------|---------|-----------------------------------|
| MO1  | 0.19756 | Getting Started Inv. Per MS/Cycle |

EWSD Material Discount: 66.064 %

EWSD Engineering and Installation Discount: 16 %

EWSD Technology Mix: 19.83 %

**PROPRIETARY**

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Technology: EWSD

Calculation: Marginal

Date: 10/14/96 11:43

| Category            | Equation(s)           | Cost Type |
|---------------------|-----------------------|-----------|
| A - Getting Started | + MO1 x IP2 x RT22.03 | Variable  |
| E1 - Digital Trunk  | IF(IP3 = 1) + ME6     | Variable  |

| Symbol  | Value    | Description                          |
|---------|----------|--------------------------------------|
| IP3     | 1.00000  | Trunks are: Analog=0; Digital=1      |
| IP2     | 20.00000 | BH DID calls per Trunk               |
| IT6     | 55.23050 | Investment per digital trunk circuit |
| ME6     | 55.23050 | Digital Trunk                        |
| ME6     |          | IT6                                  |
| MO1     | 0.19756  | Getting Started Inv. Per MS/Cycle    |
| RT22.03 | 0.60000  | Per DID call per trunk               |

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tab 15.102

Ameritech  
SCIS/DN Features 2.1  
Feature: 195. Direct Inward Dialing-DN

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 11/22/96 11:00

Technology: EWSD

(OH93MOEW:01-24-96 (12, 04-95))

| Investment Category | Variable | Direct Fixed per DN | Shared Fixed per DN | Direct Fixed per Office | Shared Fixed per Office |
|---------------------|----------|---------------------|---------------------|-------------------------|-------------------------|
| A. Getting Started  | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| B. CCS              | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| C. Call             | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| D. Minimum per Line | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| E. Hardware         | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| F. Memory           | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| G. SSP Octet        | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| H. Total End Office | No Inv.  | NA                  | NA                  | No Inv.                 | No Inv.                 |

TOTAL Investment:

per DN No Inv.

per Office No Inv.

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100 100 100

Ameritech  
SCIS/IN Features 2.1  
Feature: 195. Direct Inward Dialing-DN

Report: Marginal 1: Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 11/22/96 11:00

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

| Investment Category | Variable | Direct Fixed<br>per DN | Shared Fixed<br>per DN | Direct Fixed<br>per Office | Shared Fixed<br>per Office |
|---------------------|----------|------------------------|------------------------|----------------------------|----------------------------|
| A. Getting Started  | No Inv.  |                        |                        | No Inv.                    | No Inv.                    |
| B. CCS              | No Inv.  |                        |                        | No Inv.                    | No Inv.                    |
| C. Call             | No Inv.  |                        |                        | No Inv.                    | No Inv.                    |
| D. Minimum per Line | No Inv.  |                        |                        | No Inv.                    | No Inv.                    |
| E. Hardware         | No Inv.  |                        |                        | No Inv.                    | No Inv.                    |
| F. Memory           | 0.00280  |                        |                        | No Inv.                    | No Inv.                    |
| G. SSP Octet        | No Inv.  |                        |                        | No Inv.                    | No Inv.                    |
| H. Total End Office | 0.00280  | NA                     | NA                     | No Inv.                    | No Inv.                    |

TOTAL Investment:

per DN 0.00280

per Office No Inv

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Ameritech  
SCIS/IN Features 2.1  
Feature: 195. Direct Inward Dialing-DN

Report: Marginal 1: Marginal

Calculation: Marg-1 E.FAI

State: OH

Input File: (untitled)

Date: 11/22/96 11:00

Technology: 5ESS

(OH93MO5E:01-24-96 (SE9.2. 02-95))

| Investment Category | Variable | Direct Fixed per DN | Shared Fixed per DN | Direct Fixed per Office | Shared Fixed per Office |
|---------------------|----------|---------------------|---------------------|-------------------------|-------------------------|
| A. Getting Started  | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| B. CCS              | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| C. Call             | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| D. Minimum per Line | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| E. Hardware         | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| F. Memory           | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| G. SSP Octet        | No Inv.  |                     |                     | No Inv.                 | No Inv.                 |
| H. Total End Office | No Inv.  | NA                  | NA                  | No Inv.                 | No Inv.                 |

TOTAL Investment: per DN No Inv. per Office No Inv.

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Report: Marginal 1: Marginal

Technology: EWSD      Calculation: Marginal      Date: 11/22/96 11:00

Category      Equation(s)      Cost Type

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Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 11/22/96 11:00

Technology: EWSD

Vendor Name: Direct Inward Dialing-DN

Vendor #: 04-02-0000

Study Name: OH93MOEW:01-24-96 (12. 04-95)

EWSD Material Discount: 66.064 %

EWSD Engineering and Installation Discount: 16 %

EWSD Technology Mix: 19.83 %

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Report: Marginal 1; Marginal

Technology: DMS-100      Calculation: Marginal      Date: 11/22/96 11:00

Category      Equation(s)      Cost Type

F3 - Data Fill (DMS only)      Variable  
+ MF195.00 x IT16

| Symbol   | Value   | Description              |
|----------|---------|--------------------------|
| IT16     | 0.00093 | Data Fill cost per word  |
| MF195.00 | 3.00000 | Per DID Directory Number |

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Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 11/22/96 11:00

Technology: DMS-100

Vendor Name: Direct Inward Dialing DN

Vendor #: NTXMDC00001

Study Name: OH100F93:01-24-96 (NA004, 10-95)

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 39.35 %

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Report: Marginal 1; Marginal

Technology: 5ESS      Calculation: Marginal      Date: 11/22/96 11:00

| Category | Equation(s) | Cost Type |
|----------|-------------|-----------|
|----------|-------------|-----------|

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Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 11/22/96 11:00

Technology: SESS

Vendor Name: Direct Inward Dialing-DN

Vendor #: 04-02-0000

Study Name: OH93MO5E:01-24-96 (SE9.2, 02-95)

SESS Material Discount: 9 %

SESS Engineering and Installation Discount: 0 %

SESS Technology Mix: 40.62 %

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Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 11/22/96 11:00

NO INPUTS REQUIRED

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**SPNP - DIRECT NONRECURRING COSTS - TELRIC  
OHIO**

Tab 14.1  
3ATOHDIR.XLS

3/15/97

| A<br>Work Group<br><br>Per DID   | B<br>Activity          | C<br>Installation/<br>Removal<br>Estimate (Hrs) | D<br>1997<br>Labor Rate<br>Per Hour | E=C*D<br>Total Installation/<br>Removal Expense |         |         |
|--|------------------------|---|-------------------------------------|---|---------|---------|
| 1) Business Unit (per order)<br>- for VG and DS1 w/ and w/o transport<br>(A/C = M236X Wisc only) | a                      | Log Order                                       | 0.083                               | \$32.12   | \$2.68  |         |
|  | b                      | Pull CSR, Verify Request                        | 0.167                               | \$32.12   | \$5.35  |         |
|  | c                      | Call Business Office to issue C order           | 0.042                               | \$32.12   | \$1.34  |         |
|  | d                      | Input into Ordermate                            | 0.167                               | \$32.12   | \$5.35  |         |
|  | e                      | Issue SPS order for NAC                         | 0.167                               | \$32.12   | \$5.35  |         |
|  | f                      | Contact CTG for info                            | 0.083                               | \$32.12   | \$2.68  |         |
|  | g                      | Retrieve Order & Account #'s                    | 0.083                               | \$32.12   | \$2.68  |         |
|  | h                      | Input into Ordermate                            | 0.167                               | \$32.12   | \$5.35  |         |
|  | i                      | Issue SPS for CTG & NAC                         | 0.250                               | \$32.12   | \$8.03  |         |
|  | j                      | Machine cost                                    |                                     |   | \$4.07  |         |
|  | location life = 1 year | k   | Disconnect Order PV=13.6%COM        | 0.250   | \$33.47 | \$7.37  |
|  |                        | l   | Machine cost PV=13.6%COM            |   |         | \$3.58  |
|  |                        | m   | Total                               |   |         | \$53.83 |
| 2) Business Office (per order)<br>(A/C = M236X)  | a                      | Type Order                                      | 0.250                               | \$34.80   | \$8.70  |         |
|  | b                      | Contact Time                                    | 0.167                               | \$34.80   | \$5.80  |         |
|  | c                      | Issue Order                                     | 0.250                               | \$34.80   | \$8.70  |         |
|  | d                      | Machine cost                                    |                                     |   | \$4.07  |         |
|  | e                      | Total   |                                     |   |         | \$27.27 |
| 3) Unbundling Center (per trunk)<br>(A/C = P475X Wisc only)                                      | a                      | Pre-service Set-up                              | 0.250                               | \$41.32   | \$10.33 |         |
|  | b                      | Verify and Release Order                        | 0.167                               | \$41.32   | \$6.89  |         |
|  | c                      | Reverify and Close Order                        | 0.083                               | \$41.32   | \$3.44  |         |
|  | d                      | Disconnect Order PV=13.6%COM                    | 0.083                               | \$43.05   | \$3.16  |         |
|  | e                      | Total   |                                     |   |         | \$23.82 |
| 4) Centralized Translations Group (CTG)<br>(A/C = P430X)   | a                      | Build Route Index per Trunk Group               | 0.333                               | \$42.91   | \$14.29 |         |
|  | b                      | Disconnect Order PV=13.6%COM                    | 0.167                               | \$44.71   | \$6.57  |         |
|  | c                      | Total   |                                     |   |         | \$20.86 |
|  | d                      | Assign Trunk Members per Trunk                  | 0.167                               | \$42.91   | \$7.17  |         |
|  | e                      | Disconnect Order PV=13.6%COM                    | 0.083                               | \$44.71   | \$3.27  |         |
|  | f                      | Total   |                                     |   |         | \$10.44 |
| 5) Recent Change Memory Admin. Center<br>(RCMAC)<br>(A/C = P430X)                                | a                      | Assign Directory Numbers per No.                | 0.033                               | \$42.91   | \$1.43  |         |
|  | b                      | Rearrangement per line                          | 0.025                               | \$42.91   | \$1.07  |         |
|  | c                      | Total   |                                     |   |         | \$2.50  |
| 6) Network Administration Center (NAC)<br>(per number) (A/C = M270X)                             |                        | Provide assignment                              | 0.017                               | \$34.40   | \$0.57  |         |
| 7) USOC Implementation (per Trunk Group)   |                        |   |                                     |   | \$24.34 |         |
| 8) SERVICE ORDERING  | (L1m + L2e)            |   | \$81.10                             |   |         |         |
| 9) TOTAL PER TRUNK GROUP   | (L4c + L7)             |   | \$45.20                             |   |         |         |
| 10) TOTAL PER DS0 TRUNK TERMINATION  | (L4f + L3e)            |   | \$34.26                             |   |         |         |
| 11) TOTAL PER DS1 TRUNK TERMINATION  | ((L4f *24) + L3e)      |   | \$274.38                            |   |         |         |
| 12) TOTAL PER NUMBER   | (L5c +L6)              |   | \$3.07                              |   |         |         |
| 13) SUBSEQUENT CHANGES   | L4c                    |   | \$20.86                             |   |         |         |

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# NONRECURRING COST SUMMARY

Tab 14.2

## AMERITECH - OHIO

### SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE

#### DIRECT

|   |  |             |  |
|---|--|-------------|--|
| 1 | USOC Implementation Hours                                  |             |  |
|   | a - Programming and Development                            | 800         | Network Services                           |
|   | b - Integrated Testing                                     | 30          | Network Services                           |
|   | c - Operational Systems                                    | 58          | Network Services                           |
| 2 | 1996 Labor Rates   |             |  |
|   | a - SG3 IT   | \$56.17     | ACAR                                       |
|   | b - P475X  | \$40.29     | ACAR                                       |
| 3 | USOC Implementation Expense                                | \$49,402.56 | (L1a * L2a) + (L1b * L2b) +<br>(L1c * L2a) |
| 4 | Nonrecurring Cost Per Trunk Group -<br>USOC Implementation | \$24.34     | (L3 * 10%) / 203                           |

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| System  | CPU usage<br>MIPS | Service Order<br>% usage   | Service Order<br>CPU usage | DASD Storage<br>GBs                               | Service Order<br>% storage | Service Order<br>DASD Storage |
|---|-------------------|----------------------------|----------------------------|---|----------------------------|-------------------------------|
| DSF (LFACS)   | 169               | 0.20                       | 33.80                      | 220   | 0.25                       | 55.00                         |
| EXACT/ARIS/PBSI                                       | 63                | 1.00                       | 63.00                      | 37  | 1.00                       | 37.00                         |
| TIRKS   | 50                | 0.40                       | 20.00                      | 248   | 0.40                       | 99.20                         |
| WFA/DI/DO   | 114               | 1.00                       | 114.00                     | 240   | 1.00                       | 240.00                        |
| WFA/C   | 76                | 0.60                       | 45.60                      | 159   | 0.60                       | 95.40                         |
| <b>Total Svc Order Usage &amp; Storage in 1 month</b> |                   |                            | <b>276.40</b>              |   |                            | <b>526.60</b>                 |
|   |                   | <b>Capital \$ per MIPS</b> | <b>\$ 51,500</b>           | <b>Capital \$ per GB</b>                          | <b>\$ 5,120</b>            |                               |
|   |                   |                            | <b>\$ 14,234,600</b>       | <b>+</b>  | <b>\$ 2,696,192</b>        | <b>=</b>                      |
|   |                   |                            |                            |   |                            | <b>\$ 16,930,792</b>          |
|   |                   |                            |                            |   |                            | <b>12</b>                     |
|   |                   |                            |                            | <b>Annual</b>                                     |                            | <b>\$ 203,169,504</b>         |
|   |                   |                            |                            | <b>Ohio annual charge factor - TELRIC</b>         |                            | <b>0.3341</b>                 |
|   |                   |                            |                            | <b>Annual costs</b>                               |                            | <b>\$ 67,878,931</b>          |
|   |                   |                            |                            | <b>Other annual costs per system</b>              |                            | <b>ASCOT</b>                  |
|   |                   |                            |                            |   |                            | <b>900,000</b>                |
|   |                   |                            |                            | <b>Total Region annual costs</b>                  |                            | <b>A. \$ 68,778,931</b>       |
|   |                   |                            |                            | <b>Total Region no. of svc. orders per year</b>   |                            | <b>B. 16,889,518</b>          |
|   |                   |                            |                            | <b>Computer processing cost per service order</b> |                            | <b>4.07</b>                   |