

MIEAC SS7 B-link Interconnection Service Cost Study - TRADE SECRET DATA BEGINS:

| Assumption | Value |
|----------------------|------------|
| Backbill amount | 857,000 |
| COGs Lag (months) | - |
| Billing Lag (months) | 2 |
| Interstate | 2% |
| Intrastate | 98% |
| Ports | |
| Metro | 4 |
| ROCH | 4 |
| DLTH | 2 |
| FRGO | 1 |
| Total Non TCAP Msgs | |
| Metro | 67,774,985 |
| ROCH | - |
| DLTH | 3,578,734 |
| FRGO | 7,929,594 |
| Total TCAP Msgs | |
| Metro | 30,550 |
| ROCH | - |
| DLTH | - |
| FRGO | - |

Proposed B-Link Interconnection Rates:

| | |
|---------------------------------|----------|
| Port Charge, per port per month | 1,200 |
| Usage Charges | |
| Signal Formation | 0.000900 |
| Signal Transport | |
| ISUP per msg | 0.000600 |
| TCAP per msg | 0.000418 |
| Signal Switching | |
| ISUP per msg | 0.002000 |
| TCAP per msg | 0.000046 |
| Summary of Costs: | |
| Port COS per port | 425 |
| Usage Charges | |
| Signal Formation | 0.000829 |
| Signal Transport | |
| ISUP per msg | 0.000559 |
| TCAP per msg | 0.000418 |
| Signal Switching | |
| ISUP per msg | 0.001162 |
| TCAP per msg | 0.000046 |

| IntERstate Non-TCAP Messages (based on 4 month avg) | | |
|---|------------|-----------|
| | Total | Chargable |
| Metro | 67,774,985 | 1,355,500 |
| ROCH | - | - |
| DLTH | 3,578,734 | 71,575 |
| FRGO | 7,929,594 | 158,592 |

| IntERstate TCAP Messages (based on 4 month avg) | | |
|---|--------|-----------|
| | Total | Chargable |
| Metro | 30,550 | 611 |
| ROCH | - | - |
| DLTH | - | - |
| FRGO | - | - |

| Summary Results | | | | | |
|-------------------|-----------|----------------|---------------------|--------|--|
| Payback (Months): | 26 | Target: < 1 yr | IRR (Year 1) | #NUM! | |
| NPV (Year 1) | (745,561) | Target: > \$0 | IRR (Year 2) | -4.30% | |
| NPV (Year 2) | (289,330) | | IRR (Year 3) | 25.44% | |
| NPV (Year 3) | 90,862 | | IRR (Year 4) | 38.99% | |
| NPV (Year 4) | 407,689 | | IRR (Year 5) | 45.35% | |
| NPV (Year 5) | 649,710 | | IRR (Year 7) | 51.32% | |
| NPV (Year 7) | 1,053,078 | | IRR (Year 9) | 53.38% | |
| NPV (Year 9) | 1,333,194 | | IRR (Year 10) | 53.86% | |
| NPV (Year 10) | 1,439,299 | | MIRR | 32.43% | |
| | | | Profitability Index | 1.1144 | |

| IntERstate Revenue | | | | | | |
|--------------------|-------|--------------|-----------|----------|---------|-------|
| | Ports | Port Revenue | Messages | TCAP Msg | Msg Rev | Total |
| Metro links | 4 | 96 | 1,355,500 | 611 | 4,745 | 4,841 |
| ROCH | 4 | 96 | - | - | - | 96 |
| DLTH | 2 | 48 | 71,575 | - | 251 | 299 |
| FRGO | 1 | 24 | 158,592 | - | 555 | 579 |
| Total | 11 | 264 | 1,585,666 | 611 | 5,550 | 5,814 |

| IntRAstate Revenue | | | | | | |
|--------------------|-------|--------------|------------|----------|---------|---------|
| | Ports | Port Revenue | Messages | TCAP Msg | Msg Rev | Total |
| Metro links | 4 | 4,704 | 66,419,485 | 611 | 232,468 | 237,172 |
| ROCH | 4 | 4,704 | - | - | - | 4,704 |
| DLTH | 2 | 2,352 | 3,507,160 | - | 12,275 | 14,627 |
| FRGO | 1 | 1,176 | 7,771,002 | - | 27,199 | 28,375 |
| Total | 11 | 12,936 | 77,697,646 | 611 | 271,942 | 284,878 |

| IntERstate COS | | | | | | |
|----------------|-------|-----------|-----------|--------|----------|-------|
| | Ports | Port COGs | Messages | | Msg COGs | Total |
| Metro links | 4 | 34 | 1,355,500 | 29,939 | 3,470 | 3,504 |
| ROCH | 4 | 34 | - | - | - | 34 |
| DLTH | 2 | 17 | 71,575 | - | 183 | 200 |
| FRGO | 1 | 9 | 158,592 | - | 404 | 413 |
| Total | 11 | 94 | 1,585,666 | 29,939 | 4,057 | 4,151 |

| IntRAstate COS | | | | | | |
|----------------|-------|-----------|------------|--------|----------|---------|
| | Ports | Port COGs | Messages | | Msg COGs | Total |
| Metro links | 4 | 1,666 | 66,419,485 | 29,939 | 169,384 | 171,050 |
| ROCH | 4 | 1,666 | - | - | - | 1,666 |
| DLTH | 2 | 833 | 3,507,160 | - | 8,943 | 9,776 |
| FRGO | 1 | 417 | 7,771,002 | - | 19,816 | 20,233 |
| Total | 11 | 4,582 | 77,697,646 | 29,939 | 198,143 | 202,724 |

| IntRAstate Non-TCAP Messages (based on 4 month avg) | | |
|---|------------|------------|
| | Total | Chargable |
| Metro | 67,774,985 | 66,419,485 |
| ROCH | - | - |
| DLTH | 3,578,734 | 3,507,160 |
| FRGO | 7,929,594 | 7,771,002 |

| IntRAstate TCAP Messages (based on 4 month) | | |
|---|--------|-----------|
| | Total | Chargable |
| Metro | 30,550 | 29,939 |
| ROCH | - | - |
| DLTH | - | - |
| FRGO | - | - |

TRADE SECRET DATA ENDS.