
ACCESS SERVICE

Regulations, Rates and Charges applying to
the provision of Access Service for Connection to intrastate
communications facilities for Intrastate Customers
within the operating territories of the Issuing
Carriers listed on Title Page 2.

(T)

Access Services are provided by means of
wire, fiber optics, radio or any
other suitable technology or a combination thereof.

ACCESS SERVICE

ISSUING CARRIERS

Citizens Telecommunications Company of Tennessee LLC
d/b/a Frontier Communications of Tennessee LLC
(CTC Tennessee study area) (OCN 4336)
(CTC Volunteer State study area) (OCN 0577)
Vice President Government and Regulatory Affairs
Frontier Communications Corporation
21 West Avenue
Spencerport, New York 14559

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Note: Whenever in this Tariff the name Citizens Telecommunications Company of the Volunteer State, L.L.C. or CTC of the Volunteer State appears, that reference shall be deemed to refer to Citizens Telecommunications Company of Tennessee LLC d/b/a Frontier Communications of Tennessee LLC.

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ACCESS SERVICE

Check Sheet

The original and revised pages named below contain all changes from the original tariff that are in effect on the date shown.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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Vice-President Regulatory and Government Affairs
Citizens Communications Company
5600 Headquarters Dr.
Plano, TX 75024

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Assistant Vice-President
Regulatory Affairs
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Assistant Vice-President
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Citizens Telecommunications Company
3 High Ridge Park
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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE TRADEMARKS

NONE

REGISTERED TRADEMARKS

NONE

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
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Stamford, CT 06905

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EXPLANATION OF SYMBOLS

- (R) - to signify reduction.
- (I) - to signify increase.
- (C) - to signify changed regulation.
- (T) - to signify a change in text but no change in rate or regulation.
- (S) - to signify reissued matter.
- (M) - to signify matter relocated without change.
- (N) - to signify new rate or regulation.
- (D) - to signify a discontinued rate or regulation.
- (Z) - to signify a correction.

EXPLANATION OF ABBREVIATIONS

- AAM - Assumed Access Minutes
- ac - Alternating current
- ACAT - Additional Cooperative Acceptance Testing
- ACD - Automatic Call Distributor
- AIOD - Automatic Identification of Outward Dialed
- AM - Access Minutes
- AML - Actual Measured Loss
- ANI - Automatic Number Identification
- AP - Program Audio
- ARD - Automatic Ringdown
- ASR - Access Service Request
- AST - Automatic Scheduled Testing
- AT&T - American Telephone and Telegraph Company
- AUL - Annual Underutilization Liability

- BD - Business Day
- BHMC - Busy Hour Minutes of Capacity
- BP - Billing Percentage

- CAROT - Centralized Automatic Reporting on Trunks
- CCS - Centum Call Seconds
- CCSA - Common Control Switching Arrangement(s)

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EXPLANATION OF SYMBOLS (Cont'd)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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| | |
|--------|---|
| CCS7 | - Common Channel Signaling System 7 |
| CDL | - Customer Designated Location |
| CDM | - Call Days in Month |
| CMF | - Chargeable Minimum Factor |
| CI | - Changes Interface |
| CO | - Central Office |
| COCTX | - Central Office Centrex |
| COMPS | - Central Office Maintenance Planning System |
| Cont'd | - Continued |
| CPE | - Customer Premises Equipment or Customer Provided Equipment |
| CST | - Cooperative Scheduled Testing |
| CSU | - Circuit Switching Unit |
| CTX | - Centrex |
| | |
| DA | - Directory Assistance |
| DAM | - Distance in Airline Miles |
| dB | - decibel |
| dBm | - Decibels below one milliwatt |
| dBm | - Transmission Level Referred to the Zero Transmission Level Point |
| dBrnC | - Decibel Reference Noise C-Message Weighting |
| dBrnCO | - Decibel Reference Noise C-Message Weighted O |
| dBv | - Decibel(s) Relative to 1 Volt (Reference) |
| dBvl | - Decibel(s) Relating to 1 Volt (Reference) |
| dc | - direct current |
| DDA | - Digital Data Access |
| DDS | - Digital Data Service |
| DSAL | - Dedicated Switched Access Line |
| DSAT | - Dedicated Switched Access Transport |
| DTMF | - Dual Tone Multifrequency |
| DX | - Duplex |

Continued

EXPLANATION OF SYMBOLS (Cont'd)

| | |
|-----|--|
| E&M | - The Receive and Transmit Leads of a Signaling System |
| EDD | - Envelope Day Distortion |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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| | |
|-------|---|
| ELEPL | - Equal Level Echo Path Loss |
| EML | - Expected Measured Loss |
| EPL | - Echo Path Loss |
| ERL | - Echo Return Loss |
| ESS | - Electronic Switching System |
| ESSX | - Electronic Switching System Exchange |
| f | - frequency |
| FCC | - Federal Communications Commission |
| FCO | - Foreign Central Office Service |
| FIA | - Facilities for Interstate Access |
| FID | - Field Identifier |
| FNPA | - Foreign Numbering Plan Area |
| FX | - Foreign Exchange |
| GSEC | - General Services and Equipment Code |
| HC | - High Capacity |
| HNPA | - Home Numbering Plan Area |
| Hz | - Hertz |
| IA | - Interface Arrangement |
| IC | - Interexchange Carrier |
| ICB | - Individual Case Basis |
| ICL | - Inserted Connection Loss |
| IDDD | - International Direct Distance Dialing |
| ILP | - Initial Liability Period |
| IP | - Interconnection Point |
| kbps | - kilobits per second |
| kHz | - kilohertz |
| LATA | - Local Access and Transport Area |
| LEC | - Local Exchange Carrier |

Continued

EXPLANATION OF SYMBOLS (Cont'd)

| | |
|------|--------------------------------|
| Ma | - Milliampere |
| Mbps | - Megabits per second |
| MF | - Multifrequency |
| MHz | - Megahertz |
| MJU | - Multi-Junction Unit |
| MMUC | - Minimum Monthly Usage Charge |

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

| | |
|------|---|
| MRC | - Monthly Recurring Charge |
| MST | - Manual Scheduled Testing |
| MT | - Metallic |
| MTL | - Maximum Termination Liability |
| MTS | - Message Telecommunications Services |
| NA | - Not Available |
| NANP | - North American Numbering Plan |
| NECA | - National Exchange Carrier Association |
| NPA | - Numbering Plan Area |
| NRC | - Nonrecurring Charge |
| NST | - Nonscheduled Testing |
| NTS | - Non-Traffic Sensitive |
| NXX | - Three-Digit Central Office Code |
| | |
| OPS | - Off-Premises Station |
| OTPL | - Zero Transmission Level Point |
| | |
| PBX | - Private Branch Exchange |
| PCM | - Pulse Code Modulation |
| PI | - Priority Installation |
| PLP | - Private Line Ringdown |
| POT | - Point of Termination |
| PR | - Priority Restoration |
| | |
| RMC | - Recurring Monthly Charge |
| rms | - root-mean-square |
| RSM | - Remote Switching Modules |
| RSS | - Remote Switching Systems |
| SCP | - Service Control Point |
| SF | - Single Frequency |

Continued

EXPLANATION OF SYMBOLS (Cont'd)

| | |
|------|---------------------------------|
| SMS | - Service Management System |
| SNAL | - Signaling Network Access Line |
| SP | - Signaling Point |
| SPOI | - Signaling Point of Interface |
| SRL | - Singing Return Loss |
| SSN | - Switched Service Network |
| SSP | - Service Switching Point |
| SS7 | - Signaling System Seven |
| STP | - Signal Transfer Point |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

| | |
|------|---|
| STR | - Switched Transport Rate |
| SWC | - Service Wire Center |
| TDCF | - Total Day Conversion Factor |
| TES | - Telephone Exchange Service(s) |
| TLP | - Transmission Level Point |
| TSP | - Telecommunications Service Priority |
| TSPS | - Traffic Service Position System |
| TV | - Television |
| UL | - Under Utilization Liability |
| USOC | - Uniform Service Order Code |
| VG | - Voice Grade |
| V&H | - Vertical & Horizontal |
| WA | - Wideband Analog |
| WATS | - Wide Area Telecommunications Service(s) |
| WD | - Wideband Data |

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STATE ABBREVIATIONS

TN - Tennessee

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F. Wayne Lafferty
Assistant Vice-President
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Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this tariff, and to amendments thereto and successive issues thereof.

REFERENCE TO NECA TARIFFS

- (1) National Exchange Carrier Association Tariff FCC No. 4.
- (2) National Exchange Carrier Association Tariff FCC No. 5.

USE OF THE TARIFF

This tariff contains the regulations, rates and charges applicable to the provision of Access Service by all of the Issuing Carriers listed on Title Page 2.

The regulations applicable to the provision of Access Service are contained in Sections 2 through 19. These regulations are identical for all Issuing Carriers.

Rates and charges for all Access Services are shown in Section 20. If an Issuing Carrier does not presently have a rate for one of the rate elements shown in Section 20, the rate is shown as "Not Applicable" (N/A). Upon receipt of an order by a customer for the service not presently offered, the Issuing Carrier will file with the PSC the appropriate information necessary to establish rates.

Continued

ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Bell Communications Research, Inc., Customer Services, 60 New England Avenue, Piscataway, NJ 08854-4196.

Technical Reference:

PUB 41004 Data Communications Using Voiceband Private Line Channels
Issued: October, 1973

PUB 62310 Digital Data System Channel Interface Specification
Issued: September, 1983

PUB 62411 High Capacity Digital Service Channel Interface Specification
Issued: September, 1983 Addendum: October, 1984

TR-NWT-000063 Network Equipment Building System (NEBS) Generic Equipment
Requirements, Issued 4
Issued: July, 1991 Available: July, 1991

TR-NWT-000334 Issue 2 Voice Grade Switched Service Transmission Parameter
Limits and Interface Combinations
Issued: September, 1990

TR-NWT-000499 Transport Systems Generic Requirements (TSGR), Issue 4
Issued: November, 1991 Available: November, 1991

TR-TSY-000191 Alarm Indication Signal Requirements and Objectives, Issue 1
Issued: May, 1986 Available: May, 1986

Continued

REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

Issued: July 8, 1997

Effective: August 8, 1997

F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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| TR-TSY-000335 | Issue 2 Voice Grade Special Access Service-Transmission Parameter Limits and Interface Combinations |
| Issued: May, 1990 | |
| TR-TSY-000487 | Generic Requirements for Electronic Equipment Cabinets, Issue 1 |
| Issued: July, 1989 | Available: July, 1989 |
| TR-TSV-000905 | Common Channel Signaling (CCS) Network Interface Specification, Issue 1 |
| Issued: August, 1989 | Available: August, 1989 |
| TR-NPL-000054 | High Capacity Digital Service (1.544Mbps) Interface Generic Requirements for End Users |
| Issued: April, 1989 | Available: April, 1989 |
| TR-NPL-000275 | Notes on the BOC Interlata Networks |
| Issued: April, 1986 | |
| TR-NPL-000320 | Fundamental Generic Requirements for Metallic Digital Signal Cross Connect Systems DSX-1, -1C, -2, -3, Issue 1 |
| Issued: April, 1988 | Available: April, 1988 |
| TR-NPL-000334 | Voice Grade Switched Access Service |
| Issued: June, 1986 | Available: July, 1986 |
| TR-NPL-000335 | Voice Grade Special Access Service |
| Issued: June, 1986 | Available: July, 1986 |
| TR-NPL-000336 | Metallic and Telegraph Grade Special Access Services |
| Issued: October, 1987 | Available: October, 1987 |

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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| TR-NPL-000337 | Program Audio Special Access Service and Local Channel Services |
| Issued: July, 1987 | |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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| TR-NPL-000338 | Television Special Access and Local Channel Services |
| Issued: December, 1986 | Available: December, 1986 |
| TR-NPL-000339 | Wideband Analog Special Access Service |
| Issued: January, 1987 | Available: January, 1987 |
| TR-NPL-000340 | Wideband Digital Special Access Service |
| Issued: September, 1986 | Available: January, 1987 |
| TR-NPL-000341 | Digital Data Special Access Service - Transmission Parameter and Interface Combinations |
| Issued: March, 1989 | |
| TR-NPL-000342 | High Capacity Digital Special Access Service |
| Issued: January, 1987 | Available: January, 1987 |
| TR-INS-000342 | High Capacity Digital Special Access Service |
| Issued: February, 1991 | |
| SR-STDS-000307 | NC/NCI Code Dictionary |
| Issued: December, 1990 | |

The following technical publication is referenced in this tariff and may be obtained from Bell Communication Technical Education Center, Room B02, 6200 Route 53, Lisle, IL 60532:

Telecommunications Transmission Engineering
Volume 3 - Networks and Services (Chapters 6 and 7)
Second Edition, 1980
Issued: June, 1980

Continued

REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Director - Tariff and Regulatory Matters, 100 S. Jefferson Road, Whippany, N.J. 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1 - Issue II Access Service
Issued; May 1984

Addendum: March, 1987

Issued: July 8, 1997

Effective: August 8, 1997

F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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AT&T Technical Reference Publication 41014
Issued: February, 1978; entire issue.

The following technical publications are referenced in this tariff and may be obtained from Bell Communications Research, Inc., Distribution Storage Center, 60 New England Avenue, Piscataway, NJ 08854. Updates to this document are performed periodically.

1. Multiple Exchange Carrier Access Billing Guidelines (MECAB)

Ordering and Billing Forum
Issued: December, 1991 Available: December, 1991

2. Multiple Exchange Carrier Ordering and Design Guidelines (MECOD)

Ordering and Billing Forum
Issued: November, 1989 Available: November, 1989

Continued

REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publications are referenced in this tariff and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 N. Capitol St., N.E., Washington, D.C. 20401.

Telecommunications Service Priority (TSP)System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook, National Communications System (NCSH 3-2-1)
Dated July, 1990 Available: August, 1990

Issued: July 8, 1997

Effective: August 8, 1997

F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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Telecommunications Service Priority (TSP)System for National Security Emergency
Preparedness (NSEP) Service User Manual, National Communications System
(NCSM 3-1-1)
Dated July, 1990 Available: August, 1990

The following technical publication is referenced in this tariff and may be obtained from the American
National Standards Institute, 1430 Broadway, New York, New York 10018.

ANSI T1.102, Issued 1987

The following technical publication is referenced in this tariff and may be obtained from the Underwriters
Laboratory, Inc., Attention: Publications, 333 Pfingsten Road, Northbrook, Illinois 60062.

UL 94, Issued 1990

The following technical publication is referenced in this tariff and may be obtained from the Federal
Communication Commission's commercial contractor.

GTE Service Corporation Telephone Operations -Traffic Grade of Service Standards
Issued: April, 1985; entire issue

Continued

ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the Bellcore Information Exchange Management, 445 South Street, Room 2J-125, P.O. Box 1910, Morristown, NJ 07962-1910.

BR-795-403100 - Common Language Network Channels (NC)
Network Channel Interface (NCI) Codes
Issued: August, 1993

Continued

Issued: July 8, 1997

Effective: August 8, 1997

F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

1. Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to Carrier Common Line, Switched Access, Special Access and End User Access or, in combination, as Facilities for Intrastate Access, hereinafter referred to as services, provided by the issuing carriers of this tariff, hereinafter referred to as the Telephone Company to customers. This tariff further provides for Ancillary and Miscellaneous Services. This tariff does not apply to other services offered by the Telephone Company.
- 1.2 Regulations, rates and charges as specified in this tariff apply to services and shall not serve as a substitute for IC tariff offerings of services to end users. The provision of such services by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with an IC for the furnishing of any service.
- 1.3 Services are categorized with increasing levels of pricing flexibility: Basic Monopoly, Other Monopoly, Imperfectly Competitive and Competitive.
- (A) Basic Monopoly: terms, conditions and rates are fully tariffed.
- (B) Other Monopoly Services: are monopoly services which receive one of four types of treatment defined as follows:
- (1) Basic Monopoly: see (A) preceding.
- (2) Promotional Pricing: during Telephone Company selected periods of special promotion, nonrecurring charges including installation and Service Connection Charges and/or recurring charges do not apply. This provision is limited to 60 days for recurring charges.

Continued

ACCESS SERVICE

1. Application of Tariff (Cont'd)

1.3 (Cont'd)

(B) (Cont'd)

- (3) Flexible Pricing: Price lists are filed identifying current levels for these services. Changes below the ceiling rates may be made at the discretion of the Telephone Company, upon 15 days notice to the Tennessee Public Service Commission. No more than one rate increase per 12 month period, per service, is allowed. There is no restriction on the number of rate decreases.
- (4) Promotional Pricing and Flexible Pricing: a combination of Promotional and Flexible Pricing applies with this treatment as discussed in (2) and (3) preceding.
- (C) Imperfectly Competitive: Promotional Pricing and Flexible Pricing apply as defined previously.
- (D) Competitive: Flexible Pricing as previously discussed applies, but with an enhanced degree of flexibility.

Continued

ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this tariff.
- (B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the service it provides.
- (C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.
- (D) Services are provided twenty-four (24) hours daily, seven (7) days per week, except as set forth in other sections of this tariff.
- (E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations

- (A) The customer may assign or transfer the use of services under this tariff if there is no interruption in or relocation of services. The assignee or transferee must agree to assume all outstanding indebtedness for services provided under this tariff and any termination liability associated with the services provided. The customer will remain jointly liable with the assignee or transferee for any obligations existing at the time of the assignment.

Prior to assignment, the Telephone Company must acknowledge in writing that all requirements have been met. Acknowledgment will be made within fifteen days after the Telephone Company has been notified of the proposed assignment.

- (B) All services offered in this tariff will be provided on a first-come first-served basis except as described below. The regulations for the installation and restoration of Telecommunications Service Priority (TSP) System Services shall be subject to Part 64.401, Appendix A, of the Federal Communications Commission's Rules and Section 8 following.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

- (C) When an end office is scheduled to be converted to an equal access end office, and a shortage of facilities exists, the Telephone Company will allocate available resources to participating ICs as set forth in Section 5.2.2 following.

2.1.3 Liability

- (A) Except in the case of willful misconduct for which the Telephone Company's liability is not limited by this tariff, the Telephone Company's liability for damages shall not exceed an amount equal to the proportionate tariff charge for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may be due the customer as described in 2.4.3 following.
- (B) The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall the Telephone Company for its own act or omission hold liable any other carrier or customer providing a portion of a service.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Liability (Cont'd)

(C) The Telephone Company is not liable for damages to the customer premises resulting from the furnishing of a service, including the installation and the removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.

(D) The Telephone Company shall be indemnified, defended and held harmless by the end user and by the customer against any claim, loss or damage arising from the end user's use of services offered under this tariff, involving:

(1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;

(2) Claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end users or IC or;

(3) All other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this tariff.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

- (E) The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.3 following.
- (F) The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.
- (G) Except in the case of willful misconduct, under no circumstances whatever shall the Telephone Company be liable for indirect, incidental, special or consequential damages; and this disclaimer shall be effective notwithstanding any other provisions hereof.
- (H) No license under patents is granted by the Telephone Company to the customer or shall be implied or arise by estoppel in the customer's favor with respect to any circuit, apparatus, system or method used by the customer in connection with services provided under this tariff. With respect to claims of patent infringement

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(H) (Cont'd)

made by third persons, the Telephone Company will defend, indemnify, protect and save harmless the customer from and against all claims arising out of the use by the customer of services provided under this tariff.

2.1.4 Provision of Services

The Telephone Company's obligation to furnish the services described in this tariff is dependent upon its ability to provide such service after provision has been made for the Telephone Company's exchange services.

Services provided to a customer under this tariff may be connected directly to customer facilities and/or may be connected to access facilities of another telephone company or companies in the joint provision of intrastate access.

In compliance with Docket No. U-88-7596, the telephone company will waive all intraLATA usage charges for calls associated with County Seat Calling Plan, when the Interexchange Carriers are not billing their customers for such calls.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.5 Installation and Termination of Services

The services provided under this tariff (A) will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a location at the customer-designated premises and (B) will be installed by the Telephone Company to such Point of Termination. The Telephone Company will work cooperatively with the customer to determine the location of the Point of Termination in accordance with the Telephone Company's standard operating procedures.

Each Access Service has only one Point of Termination per customer premises. Any additional terminations beyond such Point of Termination are the sole responsibility of the customer. Moves of the Point of Termination are handled as set forth in Section 6.7.1(A) and Section 7.2.1 following.

2.1.6 Maintenance of Services

The services provided under this tariff shall be maintained by the Telephone Company. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by the Telephone Company, other than by connection or disconnection to any interface means used, except with the written consent of the Telephone Company.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R. section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, (A) change any facilities used in providing service under this tariff, (B) change minimum protection criteria, (C) change operating or maintenance characteristics of facilities or (D) change operations or procedures of the Telephone Company. The Telephone Company shall not be responsible if the change renders customer furnished services obsolete or requires modification of the customer-furnished services. If such change materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the changes made. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

Should a major change occur, the Telephone Company shall notify the customer at least one year in advance. A major change is described as any change in telephone plant which will affect the technical parameters of the interface (e.g., level, impedance, signaling, interface, bandwidth, two-wire, four-wire, etc.).

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service

- (A) Unless the provisions of 2.2.1 or 2.5.1 following apply, if a customer fails to comply with the regulations set forth in: 2.1.6 Maintenance of Service; 2.2.2., Unlawful Use; 2.3.1, Damages; 2.3.4, Availability for Testing; 2.3.5, Balance; and 2.4, Payment Arrangements and Credit Allowances, or fails to make any payment to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of noncompliance:
- (1) Refuse additional applications for service and/or refuse to complete any pending orders for service by the noncomplying customer; and/or
 - (2) Discontinue the provision of the services to the noncomplying customer. In the case of such discontinuance, all applicable charges including termination charges shall become due.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(A) (Cont'd)

If the Telephone Company does not discontinue the provision of the services involved on the date specified in the thirty (30) days' notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to discontinue the provision of the services to the noncomplying customer without further notice.

If the Telephone Company does not refuse additional applications for service on the date specified in the thirty (30) days' notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service to the noncomplying customer without further notice.

(B) When access service is provided by more than one Telephone Company, the companies involved in providing the joint service may individually or collectively deny service to a customer for nonpayment. Where the Telephone Company(s) affected by the nonpayment is incapable of effecting discontinuance of service without

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(B) (Cont'd)

cooperation from the other joint providers of Switched Access Service, such other Telephone Company(s) will, if technically feasible, assist in denying the joint service to the customer. Service denial for such joint service will only include calls originating or terminating within, or transiting, the operating territory of the Telephone Companies initiating the service denial for nonpayment. When more than one of the joint providers must deny service to effectuate termination for nonpayment, in cases where a conflict exists in the applicable tariff provisions, the tariff regulations of the end office Telephone Company shall apply for joint service discontinuance.

(C) If the National Exchange Carrier Association, Inc., notifies the Telephone Company that the customer has failed to comply with Section 8 of the National Exchange Carrier Association, Inc., Tariff FCC No. 5 (Lifeline Assistance and Universal Service Fund charges) including any customer's failure to make payments on the date and times specified therein, the Telephone Company may, on

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(C) (Cont'd)

thirty (30) days' written notice to the customer by Certified U.S. Mail, take any of the following actions: - (1) refuse additional applications for service and/or (2) refuse to complete any pending orders for service, (3) discontinue the provision of service to the customer. In the case of discontinuance, all applicable charges including termination charges, shall become due.

2.1.9 Notification of Service-Affecting Activities

The Telephone Company will provide the customer reasonable notification of service-affecting activities that may occur in normal operation of its business. Such activities may include, but are not limited to, equipment or facilities additions, removals or rearrangements, routine preventative maintenance and major switching machine change-out. Generally, such activities are not individual customer service specific, they affect many customer services. No specific advance notification period is applicable to all service-affecting activities. The Telephone Company will work cooperatively with the customer to determine the notification requirements.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.10 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Access Services, or the Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), the Telephone Company will furnish to the customer six months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s).

2.1.11 Coordination with Respect to Network Contingencies

The Telephone Company intends to work cooperatively with the customer to develop network contingency plans in order to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.12 Preemption of Services

In certain instances, i.e., when spare facilities and/or equipment are not available, it may be necessary to preempt existing services to provision or restore National Security Emergency Preparedness (NSEP) Services. If, in its best judgment, the Telephone Company deems it necessary to preempt, then the Telephone Company will ensure that:

- (A) A sufficient number of public switched services are available for public use if preemption of such services is necessary to provision or restore NSEP Service.
- (B) The service(s) preempted have a lower or do not contain NSEP assigned priority levels.
- (C) A reasonable effort is made to notify the preempted service customer of the action to be taken.
- (D) A credit allowance for any preempted service shall be made in accordance with the provisions in 2.4.3 following.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Interference or Impairment

- (A) The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company, and associated with the facilities utilized to provide services under this tariff shall not interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.

- (B) If interference as described in (A) above exists, except for equipment subject to the FCC Part 68 rules in 47 C.F.R. Section 68.108, when practicable, the Telephone Company will notify the customer that service will be temporarily disconnected until the problem is corrected. When prior notice is not practical, the Telephone Company may temporarily disconnect services without prior notification to the customer. The customer will be notified of the action as soon as possible and given the opportunity to correct the problem. During the period of discontinuance, the credit allowance for service interruptions as set forth in 2.4.3 following does not apply.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.2 Unlawful Use of Services

The services are furnished subject to the condition that they will not be used for an unlawful purpose. Services will be discontinued if any law enforcement agency, acting within its apparent jurisdiction, advises in writing that such services are being used in violation of law. The Telephone Company will refuse to furnish services when it has reasonable grounds to believe that such services will be used in violation of law.

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to the Telephone Company facilities utilized to provide services under this tariff caused by the negligence or willful act of the customer, or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.1 Damages (Cont'd)

and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment. The amount of reimbursement shall be the actual cost of repair to the damaged facilities including labor costs as specified in Section 9.2.

2.3.2 Ownership of Facilities

Facilities utilized by the Telephone Company to provide service under the provisions of this tariff shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested within a reasonable period following the request in as good condition as reasonable wear will permit. Any cost of repair or replacement for unreasonable wear or damage will be billed to the customer who utilized the equipment.

2.3.3 Equipment Space and Power

The customer shall furnish or arrange to have furnished to the Telephone Company, at no charge, equipment space and electrical power required by the Telephone Company to provide services under this tariff at the points of termination of such services. The selection of ac or dc power shall be mutually

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.3 Equipment Space and Power (Cont'd)

agreed to by the customer and the Telephone Company. The customer shall also make necessary arrangements in order that the Telephone Company will have access to such space at reasonable times for installing, testing, repairing or removing Telephone Company services.

2.3.4 Availability for Testing

The services provided under this tariff shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Balance

All signals for transmission over the services provided under this tariff shall be delivered by the customer balanced to ground except for ground start, duplex (DX) and McCulloch-Loop (Alarm System) type signaling and dc telegraph transmission at speeds of 75 baud or less.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.6 Design of Customer Services

Subject to the provisions of 2.1.7 preceding, the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of the Telephone Company, minimum protection criteria or operating or maintenance characteristics of the facilities.

2.3.7 Reference to the Telephone Company

The customer may advise end users that certain services are provided by the Telephone Company in connection with the service the customer furnishes to end users; however, the customer shall not represent that the Telephone Company jointly participates in the customer's services.

2.3.8 Claims and Demands for Damages

The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.8 Claims and Demands for Damages (Cont'd)

Telephone Company's services provided under this tariff, including, without limitation, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortuous conduct of the customer, its officers, agents or employees. The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this tariff.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.8 Claims and Demands for Damages (Cont'd)

In the event that a customer files a claim for an access billing or revenue adjustment with the Telephone Company, the Telephone Company will have thirty (30) days from the notification date to resolve the customer's claim or negotiate a mutually agreeable time frame for resolution of the claim.

2.3.9 Jurisdictional Report Requirements

(A) Jurisdictional Reports

- (1) (a) When a customer orders Feature Group A and/or Feature Group B Switched Access Service the customer shall, in its order, state the projected interstate percentage for interstate usage for each Feature Group A and/or Feature Group B Switched Access Service group ordered. If the customer discontinues some but not all of the Feature Group A and/or Feature Group B Switched Access Services in a group, it shall provide the projected interstate percentage for such services which are remaining.
- (b) Pursuant to Federal Communications Commission Order FCC 85-145 adopted April 16, 1985, intrastate usage is to be developed as though every call that enters a customer network at a point within the same state as that in which the called station (as designated

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) (Cont'd)

(b) (Cont'd)

by the called station telephone number) is situated is an intrastate communication and every call for which the point of entry is in a state other than that where the called station (as designated by the called station telephone number) is situated is an interstate communication.

(RESERVED)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) (Cont'd)

(c) The projected interstate percentages will be used by the Telephone Company to apportion the usage between intrastate and interstate until a revised report is received as set forth in (6) following.

(2) (a) All single line Feature Group A and B Switched Access Service usage and charges will be apportioned by the Telephone Company between intrastate and interstate. The projected interstate percentage reported as set forth in 1(a) and 1(b) preceding will be used to make such apportionment.

(3) (a) For multiline hunt group or trunk group arrangements where either the intrastate or the interstate charges are based on measured usage, the interstate Feature Group A and/or Feature Group B Switched Access Service(s) information reported as set forth in (1) preceding will be used to determine the charges as follows:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(3) (Cont'd)

(b) For all groups, the number of access minutes (either measured or assumed) for a group will be multiplied by the projected interstate percentage to develop the interstate access minutes. The number of access minutes for the group minus the developed interstate access minutes for the group will be the developed interstate access minutes.

(4) When a customer orders Feature Group C or Feature Group D Switched Access Service(s), the customer may provide the projected interstate percentage for interstate usage for each end office group in its order. This percentage is subject to audit by the Telephone Company as set forth in 2.3.9(A)(7) following. If the customer does not provide the projected interstate percentage for interstate usage, the Telephone Company will,

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(4) (Cont'd)

where the jurisdiction can be determined from the call detail, determine the projected interstate percentage as follows. For originating access minutes, the projected interstate percentage will be developed on a monthly basis by end office when the Feature Group C or Feature Group D Switched Access Service access minutes are measured by dividing the measured intrastate originating access minutes (the access minutes where the calling number is in one state and the called number is in another state) by the total originating access minutes when the call detail is adequate to determine the appropriate jurisdiction. For terminating access minutes, the data used by the Telephone Company to develop the projected interstate percentage for originating access minutes will be used to develop projected interstate percentage for such terminating access minutes. When originating call details are insufficient to determine the jurisdiction for the

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(4) (Cont'd)

call, the customer shall supply the projected interstate percentage or authorize the Telephone Company to use the Telephone Company developed percentage. This percentage shall be used by the Telephone Company as the interstate percentage for such call detail. The Telephone Company will designate the number obtained by subtracting the projected interstate percentage for originating and terminating access minutes calculated by the Telephone Company from 100 (100 - Telephone Company calculated projected interstate percentage = interstate percentage) as the projected interstate percentage of use.

- (5) Except where Telephone Company measured access minutes are used as set forth in (4) preceding, the customer reported interstate percentage of use as set forth in (1) or (4) preceding will be used until the customer reports a different projected interstate percentage for an in

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(5) (Cont'd)

service end office group. When the customer adds BHMC lines or trunks to an existing end office group, the customer shall furnish a projected interstate percentage that applies to the added BHMC lines or trunks. When the customer discontinues BHMC, lines or trunks from an existing group, the customer shall furnish a projected interstate percentage for the discontinued BHMC lines or trunks in the end office group. The revised report will serve as the basis for future billings and will be effective on the next bill date. No prorating or back billing will be done based on the report.

- (6) Effective on the first of January, April, July and October of each year, the customer shall update the interstate and intrastate jurisdictional report. The customer shall forward to the Telephone Company, to be received no later than fifteen (15) days after the first of each such month, a revised

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(6) (Cont'd)

report showing the interstate and intrastate percentage of use for the past three months ending the last day of December, March, June and September, respectively, for each Switched Access Service arranged for intrastate use. Additionally, where the customer utilizes FGA Switched Access Service for calls between a Primary Exchange Carrier and a Secondary Exchange Carrier within the same Extended Area Service calling area, where the Primary and Secondary Exchange Carriers are not the same Telephone Company and do not provide service under the same access service tariff, a copy of the revised report will be provided by the customer to each Secondary Exchange Carrier. The revised report will serve as the basis for the next three (3) months' billing and will be effective on the bill date for that service. No prorating or back billing will be done based on the report.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(6) (Cont'd)

If the customer does not supply the reports, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the customer, the Telephone Company will assume the percentages to be the same as those provided in the order for service as set forth in (1) preceding.

- (7) For Switched Access, if a billing dispute arises concerning the projected interstate percentage, the Telephone Company will ask the customer to provide the data the customer uses to determine the projected interstate percentage. The Telephone Company will not request such data more than once a year. The customer shall supply the data within thirty (30) days of the Telephone Company request.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(B) Special Access Jurisdictional Certification

(1) Certification Requirements

When the customer orders Special Access Service, and the customer certifies to the Telephone Company in writing that more than ten percent (10%) of the traffic is interstate, the service is considered to be interstate and is provided under Citizens Telecommunications Company FCC Tariff #1. Following initial certification, should the jurisdictional nature of the customer's Special Access Service change, the customer should inform the Telephone Company in writing of the change. The effective date of the change will be the date the Telephone Company receives the customer's notice of change. No charge applies for the jurisdictional change.

(2) Disputes Involving Jurisdictional Certification

If a dispute arises concerning the certification of projected interstate traffic as described in (1) above, the Telephone Company will ask the customer to provide the data the customer used to

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(B) Special Access Jurisdictional Certification (Cont'd)

(2) Disputes Involving Jurisdictional Certification (Cont'd)

determine that more than ten percent (10%) of the traffic is interstate. The customer shall supply the data within thirty (30) days of the Telephone Company request. If the reply results in a jurisdictional change of a Special Access Service, the effective date of the change will be the date the Telephone Company receives the customer's reply. There is no charge when the customer's reply results in a jurisdictional change in the Special Access Service.

2.3.10 Determination of Interstate Charges for Mixed Interstate and Intrastate Switched Access Service

When mixed interstate and intrastate Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) will be prorated between interstate and intrastate. The percentage provided in the reports as set forth in 2.3.9 preceding will serve as the basis for prorating the charges.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Determination of Interstate Charges for Mixed Interstate and Intrastate Switched Access Service (Cont'd)

The percentage of an Access Service to be charged as intrastate is applied in the following manner:

- (A) For monthly and nonrecurring chargeable rate elements, multiply the percent intrastate use times the quantity of chargeable elements times the stated tariff rate per element.

2.3.11 Provision for Customer Audits

Upon thirty (30) days' written notice, the customer shall have the right to access all information, data and records necessary to audit, trace and verify the accuracy of access bills rendered to the customer for usage in connection with MTS, Private Line, WATS and other services. Such information will be provided in a mutually agreeable format and shall include, but not be limited to, call details (e.g., messages and minutes of use summarized by jurisdiction, call type, end office and state). A comprehensive audit of this nature can be conducted by the customer not more than once per year. Examinations of specific questions and issues may be undertaken more frequently.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Provision for Customer Audits (Cont'd)

Each party shall bear its own expenses in connection with the conduct of an Audit (review) or Examination. Special data extractions required by the customer to conduct an Audit or Examination will be paid for by the customer. For purposes of this regulation, a "special data extraction" shall mean the creation of records that cannot normally be created by the Telephone Company's currently available software programs. If the Telephone Company changes software programs and as a result of this change previously available data records would be considered special extractions, the Telephone Company must retain the ability to extract that data for one year at no charge to the customer. After that time, the use of those data records would be considered a special data extraction, cost to be borne by the customer.

2.3.12 Theft

The customer shall reimburse the Telephone Company for any loss through theft of facilities, apparatus, or equipment utilized to provide services under this tariff as the customer designated location or at the end user's premises. The amount of reimbursement shall be the actual cost for replacement of facilities, apparatus, or equipment lost, plus labor costs as specified in Section 9.2.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Sectionalization and Trouble Reporting

The customer will be responsible for reporting troubles sectionalized to Telephone Company facilities and/or equipment. When trouble cannot be clearly sectionalized to the Telephone Company facilities and/or equipment, the Telephone Company will test cooperatively or independently to assist in trouble sectionalized.

2.3.14 County-Wide Calling

Switched Access rates are not applicable for intraLATA and interLATA calls originated and terminated within the boundaries of a single county.

The customer should report actual minutes of use to the Company for interLATA calls originated and terminated within the boundaries of a single county. This usage should be reported no later than 45 days after the end of each quarter (i.e., February 14, May 15, August 14, and November 14). For calls originated or terminated over Special Access service, only the switched access charges will be credited to the customer for these calls. No credit will be given for any call that originates and terminates over Special Access service irrespective of whether the call is intra-county.

The company will provide a credit to the customer for reported actual interLATA minutes of use for calls originated and terminated within county boundaries. The per minute rate credit will include Originating and Terminating Carrier Common Line, Switched Transport average rate*, and Local Switching rate elements.

* The average Switched Transport rate will be recalculated with each Switched Transport rate change or at least once annually.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.14 County-Wide Calling (Cont'd)

All reported minutes of use are subject to audit. The customer shall maintain and retain for a minimum of six months, complete, detailed and accurate records of all reported minutes of use sufficient to allow the Company or auditor to determine the accuracy of the reported minutes of use. In the absence of such records, no credit will be due the customer. Any credit given for periods for which such records do not exist may be recovered by the Company by offsetting such credit against any such credit due the customer from the Company.

2.3.15 Identification and Rating of VoIP-PSTN Traffic

(N)

(A) Scope

- (1) VoIP-PSTN Traffic is defined as traffic exchanged between the Telephone Company end user and the customer in time division multiplexing ("TDM") format that originates and/or terminates in Internet protocol ("IP") format. This section governs the identification of VoIP-PSTN Traffic that is required to be compensated at interstate access rates by the Federal Communications Commission in its Report and Order in WC Docket Nos. 10-90, etc., FCC Release No. 11-161 (Nov. 18, 2011) ("FCC Order"). Specifically, this section establishes the method of separating such traffic (referred to in this tariff as "Relevant VoIP-PSTN Traffic") from the customer's traditional intrastate access traffic, so that such Relevant VoIP-PSTN Traffic can be billed in accordance with the FCC Order.
- (2) This section will be applied to the billing of switched access charges to a customer that is a local exchange carrier only to the extent that the customer has also implemented billing of interstate access charges for Relevant VoIP-PSTN Traffic in accordance with the FCC Order.

(N)

Some material previously shown on this page now appears on 1st Revised Page 77.

(N)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.15 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(B) Rating of VoIP-PSTN Traffic

The Relevant VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Telephone Company's applicable tariffed interstate switched access rates as specified in the Telephone Company's applicable federal access tariff.

As of July 13, 2012, any intrastate originating Toll VoIP-PSTN Traffic will be billed at rates equal to the Company's intrastate originating switched access rates as provided in this tariff. Beginning July 1, 2014, any intrastate originating Toll VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Telephone Company's relevant interstate switched access rates as provided in the Telephone Company's applicable federal access tariff.

(N)
|
(N)

(C) Calculation and Application of Percent-VoIP-Usage Factor

The Telephone Company will determine the number of Relevant VoIP-PSTN Traffic minutes of use ("MOU") to which interstate rates will be applied under subsection (B), above, by applying a Percent VoIP Usage ("PVU") factor to the total intrastate access MOU exchanged with the Telephone Company from the customer. The PVU will be derived and applied as follows:

(C)
(C)

- (1) The customer will calculate and furnish to the Telephone Company a factor (the "PVU-C") representing the percentage of the total intrastate and interstate access MOU that the customer exchanges with the Telephone Company in the State that is sent to the Telephone Company and that originated in IP format, or is received by the Telephone Company and terminated in IP format. This PVU-C shall be based on information such as traffic studies, actual call detail, or other relevant and verifiable information.

(C)
(C)
(C)
(C)

Some material previously shown on this page now appears on 1st Revised Page 76.3.

(N)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.15 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(C) Calculation and Application of Percent-VoIP-Usage Factor (Cont'd)

- (2) The Telephone Company will, likewise, calculate a factor (the "PVU-T") representing the percentage of the Telephone Company's total intrastate access MOU in the State that the Telephone Company originates or terminates on its network in IP format. This PVU-T shall be based on information, such as the number of the Telephone Company's retail VoIP subscriptions in the state, traffic studies, actual call detail, or other relevant and verifiable information. (N)
- (3) The Telephone Company will use the PVU-C and PVU-T factors to calculate a PVU factor that represents the percentage of total intrastate MOU exchanged between a Telephone Company end user and the customer that is originated or terminated in IP format, whether at the Telephone Company's end, at the customer's end, or at both ends. The PVU factor will be calculated as the sum of: (A) the PVU-C factor and (B) the PVU-T factor times (1.0 minus the PVU-C factor). (N)
- (4) The Telephone Company will apply the PVU factor to the total terminating intrastate access MOU received from the customer to determine the number of Relevant VoIP-PSTN Traffic MOUs. (M)(T)
- (5) If the customer does not furnish the Telephone Company with a PVU pursuant to the preceding paragraph 1, the Telephone Company will utilize a PVU equal to zero. (T)

(M) Material relocated from Original Page 76.2. (N)

Material previously shown on this page now appears on 1st Revised Page 76.4. (N)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.15 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(D) Initial PVU Factor

If the PVU factor is not available and/or cannot be implemented in the Telephone Company's billing systems by January 20, 2012, once the factor is available and can be implemented the Telephone Company will adjust the customer's bills to reflect the PVU retroactively to January 20, 2012. This retroactive adjustment will be made to January 20, 2012, provided that the customer provides the factor to the Telephone Company no later than April 15, 2012; otherwise, it will set the initial PVU equal to zero, as specified in subsection (C)(1), above.

(E) PVU Factor Updates

The customer may update the PVU factor quarterly using the method set forth in subsection (C)(1), above. If the customer chooses to submit such updates, it shall forward to the Telephone Company, no later than 15 days after the first day of January, April, July and/or October of each year, a revised PVU factor based on data for the prior three months, ending the last day of December, March, June and September, respectively. The revised PVU factor will apply prospectively and serve as the basis for billing until superseded by a new PVU.

(F) PVU Factor Verification

Not more than four times in any year, the Telephone Company may ask the customer to verify the PVU factor furnished to the Telephone Company. The party so requested shall comply, and shall reasonably provide the records and other information used to determine the PVU factors.

(M)

(M)

(M) Material relocated from Original Page 76.3.

(N)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance

(T)

2.4.1 Payment of Rates, Charges and Deposits

(T)

(A) The Telephone Company will require a deposit from all customers with a proven history of late payments to the Telephone Company and all customers who do not have established credit unless the customer is a successor of a company which has established credit and has no history of late payments to the Telephone Company. The deposit may be required prior to or after establishment of service. The total deposit may not exceed the estimated charges for service for a two-month period.

(M)

The fact that a deposit has been made does not relieve the customer from the responsibility of complying with the Telephone Company's regulations regarding prompt payment of bills. Annual interest at the rate described in 2.4.1(B)(3)(b) will be paid on all deposits held from the date the deposit is received up to and including the date the deposit is returned or credited to the customer's account. The deposit will be refunded after the customer has established a record of prompt payment for one year. When service is terminated, any deposit held will be credited on the final bill.

(M)

(B) The Telephone Company will bill all usage charges monthly in arrears. All nonusage-sensitive access services, including End User Access Service and Presubscription Service, will be billed monthly in advance. Nonrecurring charges will be billed in the month following the provision of service.

(M) Material relocated from Original Page 76.1.

(N)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

- (1) The bill day for End User Access Service and Presubscription Service will be the same day established for the provision of local service.
- (2) The bill day(s) for all access services other than End User Access Service and Presubscription Service will be established by the Telephone Company for each customer account and shall appear on the carrier access bill. If the Telephone Company advises the customer in writing, an alternate billing schedule may be established. Alternate billing schedules shall not be established on less than sixty (60) days' notice or initiated by the Telephone Company more than twice in any consecutive twelve (12) month period.
- (3) (a) Payment for service is due thirty-one (31) days after the bill day or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(3) (a) (Cont'd)

the customer does not receive a bill at least twenty (20) days prior to the thirty-one (31) day payment due date, then the bill shall be considered delayed. When a bill has been delayed, upon request of the customer, the due date will be extended by the number of days the bill was delayed. Such request by the customer must be accompanied by proof of the late bill receipt. If such payment date would cause payment to be due on a Saturday, Sunday or legal holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving, Christmas, Veteran's Day and the days when Washington's Birthday, Memorial Day, and Columbus Day are legally observed), payment for such bills will be due as follows:

Continued

ACCESS SERVICE

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(3) (a) (Cont'd)

If such payment date falls on a Sunday or on a holiday which is observed on a Monday, the payment date shall be the first nonholiday day following such Sunday or holiday. If such payment date falls on a Saturday or on a holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last nonholiday day preceding such Saturday or holiday.

(b) Further, if no payment is received by the payment date or if a payment or any portion of a payment is received by the Telephone Company after the payment date as set forth in (a) preceding, or if a payment or any portion of a payment is received by the Telephone Company in funds which are not immediately available to the Telephone

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(3) (b) (Cont'd)

Company, then a late payment penalty shall be due to the Telephone Company. The monthly late payment penalty shall be equal to 1/12 of the percentage rate for deposit interest, as specified in the General Customer's Service Tariff, times the unpaid balance. Late payment charges shall be calculated from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

(c) In the event that a billing dispute arises, the customer shall pay the total amount billed by the due date or be subject to the last payment penalty beginning ten (10) days after the payment date. The customer shall notify the Telephone Company of his intent to dispute all or part of the amount due. If the dispute is resolved in favor of the

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(3) (c) (Cont'd)

customer, the Telephone Company will refund the disputed amount in question plus interest. The penalty interest period shall begin ten (10) days following the due date or on the date the disputed amount was actually paid, whichever is later. Interest will be calculated as described in (b) above.

(C) For services provided on a monthly basis, the charge for the provision of a fractional month's service will be determined by dividing the number of days that service was provided by thirty (30) and multiplying the result times the monthly rate. This calculation will be made subject to any minimum service periods required for specific services.

(D) When a rate as set forth in this tariff is shown to more than two (2) decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two (2) decimal places).

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

The Telephone Company will, upon reasonable request and if available, furnish such detailed information as may be required for verification of any bill.

The customer will receive its monthly bills in a standard paper format, or at the customer's option, on magnetic tape in standard industry format for those access services for which the Telephone Company is technically capable of providing magnetic tape billing. Additional copies of the customer's bill may be provided in standard paper format at the rates and charges set forth for Billing Name and Address in Section 20.1.7 following. When the customer requests a paper copy of the customer's bill in addition to the customer bill provided on magnetic tape, the rate set forth in Section 20.1.7 following shall apply per page.

2.4.2 Minimum Periods

The minimum period for which services are provided are for which rates and charges are applicable is one month except as otherwise specified. The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an individual case basis as set forth in Section 20.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.2 Minimum Periods (Cont'd)

following, is one month unless a different minimum period is established with the individual case filing. When a service is discontinued prior to the expiration of the minimum period, charges are applicable, whether the service is used or not, as follows:

- (A) When a service with a one month minimum period is discontinued prior to the expiration of the minimum period, a one month charge will apply at the rate level in effect at the time service is discontinued.
- (B) When a service with a minimum period greater than one month is discontinued prior to the expiration of the minimum period, the applicable charge will be the lesser of:
 - (1) the Telephone Company's total nonrecoverable costs less the net salvage value for the discontinued service, or
 - (2) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of facilities used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative.

An allowance for interruption will apply only when the interruption is not due to the negligence of the customer. The credit allowance for an interruption or for a series of interruptions shall not exceed the monthly rate for the service interrupted in any one monthly billing period.

(B) When a Credit Allowance Applies

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be as follows:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

- (1) For Special Access services, a credit allowance will be made for an interruption period of 30 minutes or more. The allowance will be calculated at the rate of 1/1440 of the monthly charge for the portion of the service affected, for each 30 minutes or major fraction thereof that the interruption continues. A major fraction is considered to be sixteen minutes or more beyond the 30 minute period.
- (a) For two-point service, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., a channel termination per customer designated premises, channel mileage and optional features and functions).

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(1) (Cont'd)

(b) If a portion of a service such as a portion of a multipoint special access facility can still be utilized during the service interruption, the credit allowance will only apply to the services which are inoperative (i.e., a channel termination per customer designated premises, channel mileage and optional features and functions).

(2) For DS1 and DS3 Special Access service, a credit allowance will be made for each occurrence of a service interruption period of three or more consecutive hours.

This credit allowance is in addition to the credit allowance in 2.4.3. The credit allowance will be \$200.00 for each out of service condition within the Telephone Company's facilities. The credit allowance will not be applied more than once per calendar month and will not exceed the monthly charge for the interrupted service. This credit allowance is applicable in the jurisdiction of:

Tennessee

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(2) (Cont'd)

A credit allowance will not be extended in accordance with conditions in 2.1.3(E) and 2.4.3(C) for repair of Telephone Company owned facilities used to provide DS1 and DS3 service.

(3) For Switched Access Service no credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of any applicable monthly charge, assumed usage, or minimum monthly usage charge for each period of 24 hours or major fraction thereof that the interruption continues.

(4) For Common Channel Signaling System 7 (CCS7) Access Service, described in Section 6.3.11, a credit allowance will be made for an interruption period of 30 minutes or more. The allowance will be calculated at the rate of 1/1440 of the monthly

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(4) (Cont'd)

charge for the portion of the service affected, for each 30 minutes or major fraction thereof that the interruption continues. A major fraction is considered to be 16 minutes or more beyond the 30 minute period.

(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance Does Not Apply (Cont'd)

- (4) Interruptions of service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in 2.4.3(B)(3) preceding applies.
- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in Section 10.

The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance Does Not Apply (Cont'd)

- (6) Periods when the customer elects not to release the service of testing and/or repair and continues to use it on an impaired basis.
- (7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.
- (8) (RESERVED)
- (9) (RESERVED)

Should the customer elect to an alternative service provided by the Telephone Company during the period that a service is interrupted, the customer must pay the tariffed rates and charges for the alternative service used.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance Does Not Apply (Cont'd)

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. The credit allowance will be 1/440 of the monthly rate for each period of 30 minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

2.4.4 Re-establishment of Service Following Fire, Flood, or Other Occurrences

(A) Nonrecurring Charges Do Not Apply

Charges do not apply for the re-establishment of service for the same customer following an interruption resulting from a fire, flood or other occurrence attributed to an Act of God provided that:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.4 Re-establishment of Service Following Fire, Flood, or Other Occurrences
(Cont'd)

(A) Nonrecurring Charges Do Not Apply (Cont'd)

- (1) The service is of the same type as was provided prior to the interruption.
- (2) The service is at the same location on the same premises.
- (3) The re-establishment of service begins within sixty (60) days after Telephone Company service is available.

(B) Nonrecurring Charges Apply

Nonrecurring charges apply for establishing service at a different location on the same premises or at a different premises pending re-establishment of service at the original location.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company

When Switched Transport or Special Transport service is provided by more than one telephone company, the telephone companies involved will mutually agree upon one of the billing methods based upon the type of access service and the interconnection arrangements between the telephone companies.

The Telephone Company will notify the customer which billing method will be used. The customer will place the ASR as in Section 5.3.

(A) Single Company Billing

The Single Company Billing method may be applied to FGA Switched Access Service.

The Telephone Company receiving the ASR from the customer, as specified in Section 5.3, will arrange to provide the service, determine the applicable charges and bill the customer for the entire service in accordance with its Access tariff. The airline mileage is determined using the V&H method in the Exchange Carrier Association (ECA) Tariff FCC No. 4.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing

Meet Point Billing is required when an access service is provided by multiple Telephone Companies* for FGB, FGC and FGD Switched Access services and Special Access. It is optional for FGA Switched Access Services.

There are two Meet Point Billing Options -- Single Bill and Multiple Bill. The Telephone Company must notify the customer of:

- the Meet Point Billing Option that will be used,
- the Telephone Company(s) that will render the bill(s),
- the Telephone Company(s) to whom payment(s) should be remitted, and
- the Telephone Company(s) that will provide the bill inquiry function.

*Meet Point Billing option guidelines, as contained in the MECAB document, may also be applied to services provided by one exchange carrier in two or more states within a single LATA.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

The Telephone Company shall provide such notification at the time that an ASR is placed requesting access service. Additionally, the Telephone Company shall provide this notice in writing 30 days in advance of any change.

(1) Single Bill Option

The Single Bill Option allows the customer to receive one bill from one telephone company or its billing agent for access services.

The Telephone Company(s) that renders the bill to the customer may provide to the customer cross references to the other Telephone Company(s) service and/or the common circuit identifiers based upon industry standards as contained in the MECAB document. Should a billing dispute arise, the terms and conditions of the Billing Company(s) will apply.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

For usage rated access services the access minutes of use will be compiled by the Initial Billing Company and used by the Initial Billing Company and any subsequent Billing Company(s) for the development of access charges.

- The Initial Billing Company for FGB, FGC and FGD Switched Access services is normally the end user's serving office and for WATS usage the Initial Billing Company is normally the WATS serving office. When the Initial Billing Company is other than the normally designated Telephone Company, the Telephone Company will notify the customer.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

- The Subsequent Billing Company(s) is any Telephone Company(s) in whose territory a segment of the Switched Transport Facility is provided and/or where the CDP is located.

The Single Bill option provides three billing alternatives, Single Bill/Single Tariff, Single Bill/Pass-Through Billing and Single Bill/Multiple Tariff which are described in the following:

(a) Single Bill/Single Tariff

Each Telephone Company will receive an ASR or a copy of the ASR from the customer as specified in Section 5.3 and arrange to provide the service. The Initial Billing Company will:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(a) Single Bill/Single Tariff (Cont'd)

- determine the applicable charges and bill in accordance with its tariff;
- include all recurring and nonrecurring rates and charges of its tariff; and
- forward the bill to the customer.

The customer will remit the payment to the Initial Billing Company.

(b) Single Bill/Pass-Through Billing

Each Telephone Company will receive an ASR or a copy of the ASR from the

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(b) Single Bill/Pass-Through Billing (Cont'd)

customer as specified in Section 5.3 and arrange to provide the service. Each Telephone Company will:

- determine its portion of Switched Transport and/or Special Transport as in 2.4.5(B)(2)(a) and 2.4.5(B)(2)(b).
- determine the applicable charges and bill in accordance with its tariff;
- include all recurring and nonrecurring rates and charges of its tariff; and

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(b) Single Bill/Pass-Through Billing (Cont'd)

- forward the bill to the Initial Billing Company for meet point billed access services.

The Initial Billing Company will:

- apply usage data, when needed, to the bill and calculate the charges;
- identify each involved Telephone Company's charges separately on the bill;
- combine all the bills of the involved Telephone Companies of a meet point billed access service into one access bill;

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(b) Single Bill/Pass-Through Billing (Cont'd)

- forward the bill to the customer; and
- advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Initial Billing Company. If payments are to be sent directly to the Initial Billing Company, the
- Subsequent Billing Company(s) will provide the customer with written authorization for the payment arrangement.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(c) Single Bill/Multiple Tariff

Each Telephone Company will receive an ASR or a copy of the ASR from the customer as specified in Section 5.3 and arrange to provide the service. The Initial Billing Company will:

- determine each Telephone Company's portion of switched transport and/or special transport as set forth in 2.4.5(B)(2)(a) and 2.4.5(B)(2)(b).
- determine the applicable charges and bill in accordance with each Telephone Company's tariff;

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(c) Single Bill/Multiple Tariff (Cont'd)

- include all recurring and nonrecurring charges for each involved Telephone Company;
- identify each involved Telephone Company's charges separately on the bill;
- forward the bill to the customer; and

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(1) Single Bill Option (Cont'd)

(c) Single Bill/Multiple Tariff (Cont'd)

- advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Initial Billing Company. If payments are to be sent directly to the Initial Billing Company, the Subsequent Billing Company(s) will provide the customer with written authorization for the payment arrangement.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option

(a) Switched Access

Multiple Bill - The customer will receive a bill from each Telephone Company providing the access service. Multiple bills will include all charges applicable to the individual portion of the access service provided by each Telephone Company. Such bills will include the following information in accordance with the MECAB Guidelines:

- Billing Account Reference (BAR)
- Billing Account Cross Reference (BACR)
- Billing Account Number (BAN)
- End office NPA/NXX or End Office CLLI Code
- Common EC Circuit Identifiers (Special Access)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(a) Switched Access (Cont'd)

- Billing Percentages as listed in NECA Tariff No. 4
- Percent Interstate Usage (PIU)
- Usage "from" and "through" dates

For Switched Access Tandem-Switched Transport Services, the Telephone Company will determine the applicable charges as follows:

Determine the distance in airline miles using the V&H method set forth in National Exchange Carrier Association Tariff FCC No. 4, between the Telephone Company's end office switch and the customer's serving wire center.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(a) Switched Access (Cont'd)

The airline distance in miles will be multiplied by the Switched Transport Facility rate times the number of access minutes of use times the billing percentage to determine the appropriate Local Transport charges. The billing percentage is that portion of local transport to be billed by each company and is mutually agreed upon by the Telephone Companies involved in providing Access Services to the customer. Billing percentages are listed in National Exchange Carrier Association Tariff FCC No. 4.

The total Local Transport charge shall be the Transport Facility charge plus the Switched Transport Termination rate times the number of access minutes of use times the number of terminations.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(a) Switched Access (Cont'd)

Where the Switched Transport Facility is provided by more than one telephone company, the Switched Transport Termination rate applies for the termination (i.e., the first point of switching and/or the end office serving the end user) at the Telephone Company end of the Switched Transport. The Switched Transport Termination rate will not apply when the Telephone Company is the intermediate provider of the Switched Transport Facility.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(a) Switched Access (Cont'd)

All other appropriate recurring and nonrecurring charges in each Telephone Company's access tariff are applicable. The Nonrecurring Charges for Switched Access, as set forth in Section 20 following, apply in full.

(b) Special Access

For Special Access Services the Telephone Company will determine the applicable charges as follows:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(b) Special Access (Cont'd)

Determine the distance in airline miles using the V&H method set forth in National Exchange Carrier Association Tariff No. 4 between the locations involved; i.e., the serving wire center associated with a customer designated premise and an end office, or a Telephone Company hub, or two Telephone Company hubs, a hub to an end office, or a hub to a tandem.

The airline distance in miles will be multiplied by the Special Access Circuit Mileage-Per Mile rate element times the billing percentage to determine the appropriate charges. The billing percentage

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(b) Special Access (Cont'd)

is that portion of circuit mileage to be billed by each company involved in providing Access Services to the customer. Billing percentages are listed in National Exchange Carrier Association Tariff FCC No. 4.

For Special Access, the total Circuit Mileage charges shall be the Circuit Mileage-Per Mile charge plus the Circuit Mileage-Fixed charges. The Circuit Mileage-Fixed Charge is always applied in full, once per circuit mileage facility, whether the Telephone Company provides one, or more than one, circuit mileage facility termination(s). The Circuit Mileage-Fixed rate does not apply when the Telephone Company provides an intermediate portion of a circuit mileage facility and no circuit mileage terminations.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

(b) Special Access (Cont'd)

All other appropriate recurring and nonrecurring charges in each Telephone Company's access tariff are applicable. The Special Access Nonrecurring Charge for circuit installation applies in full once per Circuit Termination provided by the Telephone Company.

(C) EAS Arrangements

Where a customer utilizes FGA Switched Access Services to originate or terminate calls within an Extended Area Service (EAS) calling area provided by more than one telephone company, the Telephone Company may apply additional Switched Access Service charges as set forth in (1) and(2) following, provided the following criteria are met:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(C) EAS Arrangements (Cont'd)

- The Telephone Companies involved are not the same Telephone Company and do not provide service under the same Access Service tariff,
- The Telephone Companies do not have a revenue sharing arrangement where one Telephone Company bills the total cost of access which includes the other Telephone Company's cost of access,
- The Telephone Companies involved do not bill Switched Access charges in accordance with the Multiple Company Billing Arrangement for subtending end offices of an access tandem as set forth in (B) preceding.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(C) EAS Arrangements (Cont'd)

- (1) For FGA usage which originates or terminates at a Telephone Company end office within an EAS calling area where the first point of switching (dial tone office) is provided by a different Telephone Company, the Telephone Company will apply Local Transport and Circuit Connection rates to originating access minutes, plus end office rates to originating and terminating access minutes as set forth in Section 20 following. Such Switched Access charges will be in addition to those charges assessed by the Telephone Company in whose exchange the first point of switching (dial tone office) is located. Such usage will be determined as set forth in (2) following.
- (2) FGA usage originating or terminating at Telephone Company end offices in EAS arrangements shall be determined as follows:
 - (a) Where end office specific usage data are available, such data will be used to determine the charges.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.5 Access Services Provided by More Than One Telephone Company (Cont'd)

(C) EAS Arrangements (Cont'd)

(2) (Cont'd)

(b) Where end office specific usage data are not available, the total originating and/or terminating usage will be the measured usage or assumed usage at the first point of switching (i.e., dial tone office for FGA). Originating and/or terminating usage will be determined based upon the ratios of the total number of subscriber lines in the Telephone Company exchange to the total number of subscriber lines in the EAS calling area. These ratios will be applied to the total number of originating and/or terminating access minutes to determine the access minutes for the Telephone Company exchange.

(3) The ratio used to calculate the access minutes as set forth in (2) preceding will be determined by the Telephone Company and provided to the customer upon request.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.6 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in Section 5.3.3 following.

2.4.7 Title or Ownership Rights

The payment of rates and charges by Customers for the services offered under the provisions of this tariff does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by the Telephone Company in the provision of such services.

2.4.8 Performance Commitment Program

All refunds under the Performance Commitment Program will be provided as a credit adjustment to the customer's bill.

(A) Performance Commitment Program - Provisioning

The Telephone Company assures that orders for service will be installed and available for customer use no later than the Service Date as referenced in Section 5.1.2 Service Date Intervals. The failure of the Telephone Company to meet the service date of an ASR will result

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.8 Performance Commitment Program (Cont'd)

(A) Performance Commitment Program - Provisioning (Cont'd)

in the refund of all NRCs associated with that ASR. The Telephone Company's liability for failure to meet this commitment is limited to the refund of the NRCs for the ASR associated with the missed Service Date.

The Performance Commitment Program - Provisioning does not apply:

- (1) when failure to meet the Service Date occurs because of conditions listed in 2.1.3(E), or 2.4.3(C), or due to actions of the customer.
- (2) to Special Construction as provided in Section 10.
- (3) when the Telephone Company is not the Access Service Coordination Exchange Carrier (ASC-EC) and the Service Date is not met by the LEC acting as ASC-EC for its portion of the service. See diagram below for indication of when the NRC refund will apply:

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.8 Performance Commitment Program (Cont'd)

(A) Performance Commitment Program - Provisioning (Cont'd)

(3) (Cont'd)

CTC

| | <u>Another ASC-EC</u> | <u>LEC ASC-EC</u> |
|--|---------------------------|-------------------|
| Citizens Telecommunications Misses Date | Refund applies | Refund applies |
| AnotherRefund LEC Misses Date | Refund applies | does not apply |

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.8 Performance Commitment Program (Cont'd)

(B) Performance Commitment Program - IC Desired Due Date For PIC Installation

The Telephone Company assures that the IC Desired Due Date (ICDDD) for PIC Installation, as set forth in Section 9.3.3(K), will be provided as negotiated. The failure of the Telephone Company to meet the ICDDD will result in the refund, to the IC's end user/agent customer, of the Nonrecurring Charge for Primary Interexchange Carrier, as set forth for Equal Access Charges in Section 20.1.7

2.5 Connections

2.5.1 General

Equipment and Systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Switched and Special Access Service furnished by the Telephone Company where such connection or interconnection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in 2.1 preceding.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.2 Standard Access Service Connections

Access services are provided by means of wire, fiber optics, radio or any other suitable technology or a combination thereof. Special Access service connections are made directly or through a Telephone Company hub where bridging or multiplexing functions are performed. These connections can either be analog or digital.

2.5.3 (RESERVED)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections (Cont'd)

2.5.4 (RESERVED)

2.6 Definitions

Access Area

The term "Access Area" denotes a specific calling area serviced by one or more Central Offices associated with the various Switched Access Services offered under this tariff. The size and configuration of the Access Area a customer obtains is dependent upon the Feature Group type and the specific characteristics of the Central Office or Access Tandem Network in which the connection is made.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Access Code

The term "Access Code" denotes a uniform five or seven digit code assigned by the Telephone Company to an individual customer. The five digit code has the form 10XXX, and the seven digit code has the form 950-1/0XXX or 1+950-1/0XXX.

Access Minute

The unit of usage of exchange facilities in intrastate or foreign service for the purpose of calculating chargeable usage. On the originating end of an intrastate or foreign call, usage is measured from the time the originating end user's call is delivered by the Telephone Company to, and acknowledged as received by, the customer's facilities connected with the originating exchange. On the terminating end of an intrastate or foreign call, usage is measured from the time the call is received by the end user in the terminating exchange. Timing of usage at both originating and terminating ends of an intrastate or foreign call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating end exchanges, as applicable.

Access Service Request

The term "Access Service Request" (ASR) denotes a document (i.e., order) used by the Telephone Company to process a customer's request for Access Services as offered throughout this tariff.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Access Tandem

A Telephone Company or centralized equal access provider switching system that provides a concentration and distribution function for originating or terminating traffic between end offices and a customer's premises.

Access Tandem Network

The term "Access Tandem Network" denotes the network of trunk groups that provide a concentration and distribution function for originating and/or terminating Switched Access traffic between a single access tandem and Telephone Company subtending end offices.

Actual Cost

The term "Actual Cost" denotes all costs charged against a specific case of special construction, including any appropriate taxes.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Agent

The term "Agent" is defined as that person or entity that the Telephone Company acknowledges as the possessor of authority to make decisions pertaining to instrument placement, subscription authorization, and access or usage control of Public or Semipublic Pay Telephone Service or, that person or entity duly authorized to act in that capacity by the owner of the premises.

Aggregator

The term "Aggregator" denotes any individual, partnership, association, joint-stock company, trust or corporation that, in the ordinary course of its operations, makes telephones available to the public or to transient users of its premises, for intrastate telephone calls using a provider of operator services.

Alternate Billing Service

The term "Alternate Billing Service" (ABS) denotes the ability of the end user to bill calls to an account not necessarily associated with the originating line, including calling card, collect and third number billing.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Annual Underutilization Liability

The term "Annual Underutilization Liability" denotes a per unit amount which may be billed annually if fewer services are in use utilizing specially constructed facilities at filed tariff rates than were originally specially constructed.

Answer/Disconnect Supervision

The transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

Answer Message

The term "Answer Message" denotes an SS7 message sent in the backward direction to indicate that the call has been answered.

Area of Service

The term "Area of Service" (AOS) routing denotes the ability to ensure that 800 calls originate from subscribed service areas.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Attempt

The term "Attempt" denotes a call in the originating direction from an end user to a CDP which is completed (answered) or not completed (not answered) and a call in the terminating direction from a CDP to a customer which is completed (answered) or not completed (not answered).

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Balance (100-Type) Test Line

The term "Balance (100-Type) Test Line" denotes a standard feature of FGA, FGB, FGC, FGD, and 800 Access Service and refers to the end office termination provided for balance and noise testing. The termination provides off-hook supervision to the calling end, and terminates the line or trunk in a resistive and capacitive arrangement which simulates the characteristic impedance of the end office.

BHMC

See Busy Hour Minutes of Capacity.

Basic Monopoly

Terms, conditions and rates are fully tariffed.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Basic Monopoly Services

Services which are only provided by the Telephone Company and are essential to basic telephone service.

Billed Number Screening

The term "Billed Number Screening" (BNS) denotes the process of utilizing a line information data base to determine billing number acceptance for collect and third number calls and to perform public telephone line number checks to prevent the alternate billing of calls to public coin telephone lines.

Bit

The term "Bit" denotes the smallest unit of information in the binary system of notation.

Bridging

The term "Bridging" denotes the connection of one or more circuits in parallel with another circuit without interrupting the continuity of the first circuit.

Bridging Wire Center

The term "Bridging Wire Center" denotes the telephone company designated wire center in which bridging is accomplished.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Business Day

The times of day that a company is open for business. Business day hours for the Telephone Company may be determined by contacting the business office.

Busy Hour Minutes of Capacity (BHMC)

The customer specified maximum amount of Switched Access Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 a.m. to 11:00 p.m. period for the Switched Access Service ordered. This customer furnished BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Switched Access Service ordered.

Busy Season

The term "Busy Season" denotes the four consecutive weeks of the calendar year having the highest daily busiest hour traffic load based on a five day week. Normally the five-day week consists of Monday through Friday. Where weekend traffic is greater than weekday traffic, one or both weekend days may be used as a substitute for a weekday as long as a consistent five-day week is maintained for the four consecutive weeks.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Byte

The term "Byte" denotes a sequence or group of eight bits that represents one character.

C-Conditioning

The term "C-Conditioning" denotes a telephone company special treatment of the transmission path in order to control attenuation and envelope delay distortion.

C-Message Noise

The term "C-Message Noise" denotes the frequency weighted average noise within an idle voice circuit. The frequency weighting, called C-message, is used to simulate the frequency characteristic of the 500-type telephone set and the hearing of the average subscriber.

C-Notched Noise

The term "C-Notched Noise" denotes the frequency weighted noise on a voice circuit with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

CCS

The term "CCS" denotes a hundred call-seconds which is a standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of lines or trunks.

Call

A customer attempt for which the complete address code (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Call Branding

Call Branding is the act of providing customer identification, audibly and distinctly, to the caller at the beginning of a Preferred Directory Assistance call.

Carrier or Common Carrier

See Interexchange Carrier.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Cellular Mobile Carrier (CMC)

The term "Cellular Mobile Carrier" (CMC) denotes a Common Carrier authorized by the Federal Communications Commission to provide cellular mobile radio telecommunications services.

Central Office

A local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks.

Central Office Loop Around Test Line

The term "Central Office Loop Around Test Line" denotes equipment in the Telephone Company's end office which provides a means for making two-way transmission tests for Switched Access services. These transmission tests are normally for the measurement of level and noise tests. This arrangement has two terminations, each reached by means of a separate seven digit number.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the telephone number assigned to a telephone company subscriber's local service.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Centralized Automatic Reporting on Trunks (CAROT) Testing

The term "Centralized Automatic Reporting on Trunks (CAROT) Testing" denotes a type of testing which includes the capacity for measuring the 1000 Hz loss, C-message weighted noise, C-notched noise, loss slope, and the provision of a balance termination.

Channel Service Unit

The term "Channel Service Unit" denotes customer premises equipment which performs one or more of the following functions: termination of a digital facility, regeneration of digital signals, detection and/or correction of signal format error, and remote loop back.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrow bandwidth or lower speed channels.

Circuit

The term "Circuit" denotes an electrical or photonic, in the case of fiber optic based transmission systems, communications path between two or more points of termination.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Citizens' Service Order Code (CSOC)

A two (2), four (4) or five (5) character alphabetic, numeric, or an alphanumeric code that identifies a specific item of service or equipment. Citizens' Service Order Codes are used in the Telephone Company billing system to identify recurring rates and nonrecurring charges.

Coin Station

A location where telephone equipment is provided in a public or semipublic place where end users can originate telephonic communications and pay the applicable charges by inserting coins into the equipment.

Common Channel Signaling

The term "Common Channel Signaling" (CCS) denotes a high speed packet switched communications network which is separate (out of band) from the public packet switched and message networks. Its purpose is to carry addressed signaling messages for individual trunk circuits and/or database related services between Signaling Points in the CCS network.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Common Channel Signaling System 7 Network (CCS7)

The term "Common Channel Signaling System 7 Network" (CCS7) denotes a dedicated out-of-band signaling network which utilizes Signaling System 7 (SS7) protocol to provide call handling and data base access services.

Common Line

The term "Common Line" denotes a line, trunk, coin line or other facility provided under the Telephone Company General and/or Local Tariffs, terminated on a Central Office switch. A Common Line - Residence is a line or trunk provided under the residence regulations of the Telephone Company General and/or Local Tariffs. A Common Line - Business is a line or trunk provided under the business regulations of the Telephone Company General and/or Local Tariffs. A coin line is a line provided under the public and/or semi-public service regulations of the Telephone Company General and/or Local Tariffs.

Communications System

The term "Communications System" denotes circuits and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company or Telephone Company stations.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Competitive Services

Flexible Pricing applies, but with an enhanced degree of flexibility.

Confirmed ASR

The term "Confirmed ASR" denotes a customer's ASR for a) Switched Access service which the Telephone Company has processed with the Engineering Department to confirm for the customer and the Telephone Company the availability of facilities and/or equipment, and b) Special Access service for which the Telephone Company confirms to the customer that the established due date can be met. The date the ASR is confirmed, the standard service date interval commences.

Confirming Design Layout Report Date

The term "Confirming Design Layout Report (CDLR) Date" identifies the date that the Telephone Company is scheduled to receive confirmation that the Design Layout Report provided by the Telephone Company for a confirmed ASR is acceptable.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Conventional Signaling

The term "Conventional Signaling" denotes the inter-machine signaling system which has been traditionally used in North America for the purpose of transmitting the called number's address digits from the originating end office to the switching machine which will terminate the call. In this system, all of the dialed digits are received by the originating switching machine, a path is selected, and the sequence of supervisory signals and outpulsed digits is initiated. No overlap outpulsing, ten-digit ANI, ANI information digits, or acknowledgment wink are included in this signaling sequence.

Customer

The term "Customer" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or any other entity which subscribes to the services offered under this tariff, including Interexchange Carriers (ICs), alternative access providers, facility based carriers, end users, Information and Enhanced Service Providers.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Customer Designated Location

The term "Customer Designated Premises" (CDP) denotes a location specified by the customer for the purpose of terminating services. The Telephone Company must have access to the location to perform installation, testing, and maintenances functions. The customer may or may not have access to the location. CDPs include locations such as customer premises, end user premises, customer repeater stations, customer microwave towers, a Telephone Company's first point of switching, some other point where Telephone Company testing can occur, etc. A CDP may be designated by the customer for Switched Access, Special Access, or both in combination.

Customer Designated Premises

The premises specified by the customer for the provision of Access Service.

Customer Message

A completed intrastate call originated by a customer's end user. A customer message begins when answer supervision from the premise of the ordering customer is received by Telephone company recording equipment indicating that the called party has answered. A message ends when disconnect supervision is received by Telephone Company recording equipment from either the premise of the ordering customer or the customer's end user premise from which the call originated.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

D-Conditioning

The term "D-Conditioning" denotes a Telephone Company special treatment of the transmission path in order to control C-notched noise and intermodulation distortion.

Daily Busiest Hour

The term "Daily Busiest Hour" denotes the highest usage hour for each day with the reading taken on the clock hour or half hour. The clock hour or half hour selection varies from day to day, depending upon the usage measured. The Daily Busiest Hour is also known as the Bouncing Busy Hour.

Data Transmission (107 Type) Test Line

An arrangement which provides for a connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Decibel

The term "Decibel" denotes a unit used to express relative differences in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Decibel Reference Noise C-Message Referenced to 0

The term "Decibel Reference Noise C-Message Referenced to 0" denotes noise power in "Decibel Reference Noise C-Message Weighting" referred to or measured at a zero transmission level point.

Decibel Reference Noise C-Message Weighting

The term "Decibel Reference Noise C-Message Weighting" denotes noise power measurements with C-Message Weighting in decibels relative to a reference 1000 Hz tone of 90 dB below 1 milliwatt.

Digital Switched 56 Service

A switched access optional feature available with Feature Group D Access, which provides for data transmission at up to 56 Kilobits per second.

(RESERVED)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency (DTMF) Address Signaling" denotes a type of signaling that is an optional feature of FGA. It may be utilized when FGA is being used in the terminating direction. An office arranged for signaling would expect to receive address signals from the IC in the form of DTMF format.

Echo Control

The term "Echo Control" denotes the control of reflected signals in a telephone transmission path.

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a four-wire interface without regard to the send and receive Transmission Level Point (TLP).

Echo Return Loss

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately 500 to 2500 Hz) where talker echo is most annoying.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Effective Four-Wire (4)

A condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective four-wire (4) transmission is at the discretion of the Telephone Company (physical, time domain, frequency-domain separation or echo cancellation techniques).

Effective Two-Wire (2)

A condition which permits the simultaneous transmission in both directions over a channel, which does not insure independent information transmission in both directions. Effective two-wire (2) channels may be terminated with two-wire (2) or four-wire (4) interfaces.

End Office Switch

A local Telephone Company switching system where Telephone Exchange Service customer common lines are terminated for purposes of interconnection to trunks. Included are Remote Switching Modules and Remote Switching Systems served by a host office in a different wire center.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

End User

Any customer of an intrastate or foreign telecommunications service that is not a carrier, except that a carrier shall be deemed to be an "end user" to the extent that such carrier uses a telecommunications service for administrative purposes, without making such service available to others, directly or indirectly.

Engineering Review

The term "Engineering Review" denotes the examination of an ASR with a customer requested change to determine if a design change is required. It includes, but is not limited to, the review for possible change requirements in equipment, interfaces, circuit configurations, engineering records, and billing.

Enhanced Service Provider

The term "Enhanced Service Provider" denotes a customer who offers the capability for generating, acquiring, storing, transforming, processing, retrieving, utilizing, or making available information which may be conveyed via telecommunications, except that such service does not include, 1) any use of any such capability for the management, control, or operation of a telecommunications system or the management of a telecommunications system, or 2) the provision of time, weather, and such other similar audio services that are offered by any Telephone Company.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

(RESERVED)

Entry Switch

See First Point of Switching.

Envelope Delay Distortion

The term "Envelope Delay Distortion" denotes a measure of the linearity of the phase versus frequency of a channel.

Equal Level Echo Path Loss

The term "Equal Level Echo Path Loss" (ELEPL) denotes the measure of Echo Path Loss (EPL) at a 4-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP). [ELEPL = TLP (send) + TLP (receive)]

Estimated Cost

The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Excess Capacity

The term "Excess Capacity" denotes a quantity of services requested by the customer which is greater than that which the Telephone Company would construct to fulfill the customer's ASR.

Exchange

A unit generally smaller than a local access and transport area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. The exchange includes any Extended Area Service Area that is an enlargement of a Telephone Company's exchange area to include nearby exchanges.

Exchange Access Signaling

The term "Exchange Access Signaling" denotes the signaling system used by equal access end offices to transmit originating information and address digits to the customer's premises and includes the means of verifying the receipt of these address digits. Features of this system include overlap outpulsing (in suitable equipped end offices), identification of the type of call, identification of the ten-digit telephone number of the calling party, and acknowledgment wink supervisory signals.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Existing Suitable Space

The term "Existing Suitable Space" denotes a space in which ac/dc power, heat and air conditioning, battery and generator back-up power, and other requirements necessary for provision of wire center equipment currently exists.

Exit Message

The term "Exit Message" denotes an SS7 message sent to an end office by the Telephone Company tandem switch to mark the connect time when the Telephone Company's tandem switch sends an Initial Address Message to a customer.

(RESERVED)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004-Hz loss on a terminated test connection between two readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

Extended Area Service

The term "Extended Area Service" (EAS) denotes an arrangement whereby a customer in one exchange can call a local number in another exchange that is part of the extended area without paying a toll charge.

Facility

The term "Facility" denotes generically the various transmission media used for the transmission of telecommunications service. This included, but is not limited to, cable (copper pair, coaxial and fiber optic) and microwave radio equipment.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Field Identifier

The term "Field Identifier" denotes two to four characters that are used on service orders to convey specific instructions. Field Identifiers may or may not have associated data. Selected Field Identifiers are used in Telephone Company billing systems to generate nonrecurring charges.

Firm Order Confirmation Date

The term "Firm Order Confirmation (FOC) Date" denotes the date that the Telephone Company will provide the schedule of dates for the provisioning activities associated with the customer's request for service.

First Come - First Served

The term "First Come - First Served" denotes a procedure followed by the Telephone Company to process fully completed Access Orders according to the sequence in which they are received.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

First Point of Switching

The first Telephone Company location at which switching occurs on the terminating path of a call proceeding from the customer premises to the terminating end office and, at the same time, the last Telephone Company location at which switching occurs on the originating path of a call proceeding from the originating end office to the IC or customer premises.

Four-Wire to Two-Wire Conversion

The term "Four-Wire to Two-Wire Conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate in a two-wire entity such as a central office switch trunk circuit or switching system.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.

(RESERVED)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Ground Start Supervisory Signaling

The term "Ground Start Supervisory Signaling" denotes a type of signaling which provides for the application of ground on the tip side at the point of termination (assuming no signaling conversion has been provided by the Telephone Company) as an initial seizure signal before the application of ringing in the originating direction (towards the customer from the end office).

Host Office

An electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

Immediately Available Funds

A corporate or personal check drawn on a bank account for which funds are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Impedance Balance

The term "Impedance Balance" denotes the method of expressing Echo Return Loss and Singing Return Loss at a 4-wire interface whereby the gains and/or loss of the 4 wire portion of the transmission path, including the hybrid, are not included in the specification.

Imperfectly Competitive Services

Promotional Pricing and Flexible Pricing apply as defined previously.

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise on a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

Individual Case Basis (ICB)

A condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed based on the circumstances in each case.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Information Service Provider

The term "Information Service Provider" denotes one who offers a capability for generating, acquiring, storing, transforming, processing, retrieving, utilizing, or making available information which may be conveyed via telecommunications, except that such service does not include (1) any use of any such capability for the management, control, or operation of a telecommunications system or the management of a telecommunications service, or (2) the provision of time, weather, and such other similar audio services that are offered by the Telephone Company.

Initial Address Message (IAM)

The term "Initial Address Message" (IAM) denotes an SS7 message sent in the forward direction to initiate trunk set up with the busying of an outgoing trunk which carries the information about that trunk along with other information relating to the routing and handling of the call to the next switch.

Initial Liability Period

The term "Initial Liability Period" denotes the initial planning period during which the customer expects to place specially constructed facilities in service.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 H2 power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

Installed Cost

The term "Installed Cost" denotes the total cost (estimated or actual) by the Telephone Company to provide facilities for the offered services.

Interexchange Carrier (IC) or Interexchange Common Carrier

Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in intrastate or foreign communication by wire or radio, between two or more exchanges.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a circuit. It is measured using four tones, and evaluating the ratios (in dBs) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Interstate Call

A term which denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

Kilosegment

The term "Kilosegment" denotes a unit of packet transmission defined as 64,000 bytes of data; one thousand segments.

Line

The term "Line" denotes a communications path connecting an end office switch with an end user's premises or a CDP for the provision for FGA.

Line Group

The term "Line Group" denotes a grouping of lines which are traffic engineered as a unit for the establishment of connections between end office switches and customers in which all of the communications paths are interchangeable.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Line Information Data Base

The term "Line Information Data Base" (LIDB) denotes a data base containing billing validation data providing the ability to screen billed numbers to support Alternate Billing services.

Line Side Connection

A connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area

A geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Local Tandem Switch

A Telephone Company local operating unit by means of which local or access telephonic communication is switched to and from an End Office switch.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Loop Around Test Line

An arrangement utilizing a Telephone Company central office to provide a means to make certain two-way transmission tests on a manual basis. This arrangement has two central office terminations, each reached by means of separate telephone numbers and does not require any specific customer premises equipment. Equipment subject to this test arrangement is at the discretion of the customer.

Loss Deviation

The term "Loss Deviation" denotes the variation of the actual loss from the designed value.

Maximum Termination Liability

The term "Maximum Termination Liability" (MTL) denotes the maximum amount of money for which the customer is liable in the event all services ordered in a Special Construction case are discontinued before a specified period of time.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Maximum Termination Liability Period

The term "Maximum Termination Liability Period" denotes the length of time the customer is liable for a termination charge in the event specially constructed services are terminated. The MTL period is equal to the average account life of the service provided.

Message

See "Call".

Mid Link

The term "Mid Link" denotes the Special Transport facilities between Hub Wire Centers where the circuit is bridged and/or where switching devices such as a loop transfer arrangement are located.

Milliwatt (102 Type) Test Line

An arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customer's premises from the Telephone Company end office.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Mobile Telephone Switching Office (MTSO)

The term "Mobile Telephone Switching Office" (MTSO) denotes a Cellular Mobile Carrier (CMC) switching facility that is used to originate or terminate calls on the CMC network, or originate or terminate calls between the CMC and the public switched telephone network.

Multicarrier Access Area

The term "Multicarrier Access Area" denotes an EAS for FGA or an area for FGB where services are provided by more than one telephone company in which a customer obtains access to an entire EAS or FGB area by obtaining a FGA or FGB access tandem arrangement that connects its switch with the First Point of Switching of the Primary Exchange Carrier.

National Security Emergency Preparedness (NSEP) Services

The term "National Security Emergency Preparedness (NSEP) Services" denotes telecommunications services which are used to maintain a state of readiness or to respond to and manage any event or crisis (local, national or international), which causes or could cause injury or harm to the population, damage to or loss of property, or degrades or threatens the NSEP posture of the United States.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Net Salvage

The estimated scrap, sale, or trade-in value, less the estimated cost of removal. Cost of removal includes the costs of demolishing, or otherwise disposing of the material and any other applicable costs. Since the cost of removal may exceed salvage value, net salvage may be negative.

Network Address

The term "Network Address" denotes the alphanumeric character string used to specify the destination of each switched connection made within the network.

Network Channel Interface Code

The "Network Channel Interface" (NCI) code is an ordering code that provides an indication of the generic channel type. The NCI code provides the technical characteristics of the interface and describes the physical and electrical characteristics of the special access interface to the customer designated locations.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Network Control Signaling

The transmission of signals used in the telecommunications system which perform functions such as supervision (control, status, and charge signals), address signaling (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating reorder or busy conditions, alerting, coin denomination, coin collect and coin return tones) to control the operation of the telecommunications system.

Non-Overlap Outpulsing

The term "Non-Overlap Outpulsing" is the feature of the exchange access signaling system which provides initiation of pulsing to the customer's premises after the calling subscriber has completed dialing an originating call.

Nonrecoverable Cost

The term "Nonrecoverable Cost" denotes the cost of specially constructed facilities for which the Telephone Company has no foreseeable use should the customer terminate service.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Nonsynchronous Test Line

An arrangement in step-by-step end offices which provides operational tests which are not as complete as those provided by the synchronous test lines, but can be made more rapidly.

Normal Construction

The term "Normal Construction" denotes all facilities the Telephone Company would normally use to provide service in the absence of a requirement for special construction.

North American Numbering Plan

A three-digit (3) area (Numbering Plan Area) code and a seven-digit (7) number made up of a three-digit (3) Central Office code plus a four-digit (4) station number.

NSEP Treatment

The term "NSEP Treatment" denotes the provisioning of a telecommunications service before others based on the provisioning priority level assigned by the Executive Office of the President.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Octet

The term "Octet" denotes a group of eight binary digits operated upon as an entity.

Off-Hook

The active condition of Switched Access or a Telephone Exchange Service line.

On-Hook

The idle condition of Switched Access or a Telephone Exchange Service line.

Open Circuit Test Line

An arrangement in an end office which provides an ac open circuit termination of a trunk or line by means of an inductor of several Henries.

Operator Services Provider

The intrastate provider of operator services to which an end user placing an operator assisted call is connected.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Operator Services System

The switching equipment, facilities, operator positions and software components utilized for the provision of operator services.

Operator Services Switching Location (OSSL)

A Telephone Company office where Telephone Company equipment processes Operator Services calls to or from a customer designated location in the same LATA.

Order Interval

The term "Order Interval" denotes the interval between the Scheduled Issue Date and the Service Date.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Originating Direction

The use of access service for the origination of calls from an end user premises to an IC premises.

Originating Point Code

The term "Originating Point Code" (OPC) denotes the identity assigned to each Operator Service System (OSS) location.

Other Monopoly Services

Monopoly services which receive one of four types of treatment defined as follows:

- 1) Basic Monopoly: terms, conditions and rates are fully tariffed.
- 2) Promotional Pricing: during Telephone Company selected periods of special promotion, nonrecurring charges including installation and Service Connection Charges and/or recurring charges do not apply. This provision is limited to 60 days for recurring charges.
- 3) Flexible Pricing: Price lists are filed identifying current levels for these services. Changes below the ceiling rates may be made at the discretion of the Telephone Company, upon 15 days notice to the Tennessee Public Service Commission. No more than one rate increase per 12 month period, per service, is allowed. There is no restriction on the number of rate decreases.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Other Monopoly Services (Cont'd)

- 4) Promotional Pricing and Flexible Pricing: a combination of Promotional and Flexible Pricing applies with this treatment as discussed in (2) and (3) preceding.

Overlap Outpulsing

The feature of the exchange access signaling system which permits initiation of pulsing to the customer's premises before the calling subscriber has completed dialing an originating call.

(RESERVED)

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

(RESERVED)

(RESERVED)

Pay Telephone

Telephone instruments and related facilities that are available to the general public for public convenience and necessity, including public and semi-public telephones, and coinless telephones.

Permanent Facilities

The term "Permanent Facilities" denotes facilities providing service for one month or more.

Phase Jitter

The term "Phase Jitter" denotes the unwanted phase variations of a signal.

(RESERVED)

Plant Test Date

The term "Plant Test Date" denotes the date on which installation is completed and the Telephone Company to customer testing can begin.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Point of Termination

The point of demarcation within a customer-designated premises at which the Telephone Company's responsibility for the provision of Access Service ends.

Premises

A building or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.

Pre-Service Testing

The term "Pre-Service Testing" denotes tests performed on services to assure standard transmission performance/parameters meet specifications prior to acceptance testing.

Primary Exchange Carrier

Denotes the Local Exchange Telephone Company in whose exchange a customer's first point of switching (i.e., dial tone office for FGA).

Prime Service Vendor

The term "Prime Service Vendor" denotes the status of the Telephone Company when contracting directly with the user of TSP service.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Protocol

The term "Protocol" denotes a set of rules governing the format to be followed when transmitting information between communicating devices.

Public Pay Telephone

The term "Public Pay Telephone" denotes a switched coin line provided under the Public Telephone Service regulations of the Telephone Company General Exchange and/or Local Exchange Tariffs.

Query

The term "Query" denotes the inquiry to a Telephone Company data base to obtain information, processing instructions or service data.

Recoverable Cost

The term "Recoverable Cost" denotes the cost of specially constructed facilities for which the Telephone Company has a foreseeable reuse, either in place or elsewhere should the customer terminate service.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Regional Signal Transfer Point (RSTP)

The term "Regional Signal Transfer Point" (RSTP) denotes a Signal Transfer Point (STP) equipped with gateway screening capability. Gateway screening is defined as the examination of designated fields within inbound SS7 messages to prevent unauthorized access to, and use of, the Telephone Company's SS7 network by another signaling network.

Regional Signal Transfer Point (RSTP) Port

The term "Regional Signal Transfer Point (RSTP) Port" denotes the physical point of termination and interconnection to the RSTP.

Registered Equipment

The customer's premises equipment which complies with and has been approved within the Registration Provision of Part 68 of the FCC's Rules and Regulations.

Release Message

The term "Release Message" denotes an SS7 Message sent in either direction to indicate that a specific circuit is being released.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Remote Switching Modules and/or Remote Switching Systems

Small, remotely controlled electronic end office switches which obtain their call processing capability from a Digital Host Office. The Remote Switching Modules and/or Remote Switching Systems cannot accommodate direct trunks to an IC.

Response

The term "Response" denotes an SS7 message representing a reply to a request for information contained in a query.

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission paths. The higher the return loss, the higher the similarity.

Route Mileage

The term "Route Mileage" denotes the actual Telephone Company provided facility mileage of a transmission circuit.

Scheduled Issue Date

The term "Scheduled Issue Date" denotes the date the Telephone Company is scheduled to issue the confirmed ASR to all associated work groups.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Secondary Exchange Carrier

Denotes the Local Exchange Telephone Company in whose exchange a FGA customer's end users' end office is located and where the customer's first point of switching is provided by a Primary Exchange Carrier who is not the same Exchange Carrier as the Secondary Exchange Carrier.

(RESERVED)

Semi-Public Pay Telephone

The term "Semi-Public Pay Telephone" denotes a switched coin line provided under the Semi-Public Telephone Service regulations of the Telephone Company General and/or Local Tariffs.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Service Categories

Services are categorized with increasing levels of pricing flexibility: Basic Monopoly, Other Monopoly, Imperfectly Competitive and Competitive.

- (A) Basic Monopoly: terms, conditions and rates are fully tarified.
- (B) Other Monopoly Services: are monopoly services which receive one of four types of treatment defined as follows:
 - (1) Basic Monopoly: terms, conditions and rates are fully tarified.
 - (2) Promotional Pricing: during Telephone Company selected periods of special promotion, nonrecurring charges including installation and Service Connection Charges and/or recurring charges do not apply. This provision is limited to 60 days for recurring charges.
 - (3) Flexible Pricing: Price lists are filed identifying current levels for these services. Changes below the ceiling rates may be made at the discretion of the Telephone Company, upon 15 days notice to the Tennessee Public Service Commission. No more than one rate increase per 12 month period, per service, is allowed. There is no restriction on the number of rate decreases.
 - (4) Promotional Pricing and Flexible Pricing: a combination of Promotional and Flexible Pricing applies with this treatment as discussed in (2) and (3) preceding.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Service Categories (Cont'd)

- (C) Imperfectly Competitive: Promotional Pricing and Flexible Pricing apply as defined previously.
- (D) Competitive: Flexible Pricing as previously discussed, applies, but with an enhanced degree of flexibility.

Service Control Point

The term "Service Control Point" (SCP) denotes an SS7 network control interface element between the Telephone Company's SS7 network and one or more data bases.

Service Date

The term "Service Date" denotes the date that the service is to be placed in service. A confirmed ASR is required to establish a service date.

Service Management System

The term "Service Management System" (SMS) denotes the primary 800 service system that interfaces between the regional SCPs and 800 service providers order entry centers and/or systems. The primary function of the SMS is to administer 800 records in the SCPs that involve service provisioning, maintenance network administration and management.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Service Switching Point (SSP)

The term "Service Switching Point" (SSP) denotes a switch which recognizes 800 calls and suspends them in order to query the 800 Service Control Point (SCP) for routing instructions for the 800 call.

Serving Wire Center

That Telephone Company designated wire center serving the customer's designated premises and used for mileage measurement to determine local transport or circuit mileage charges for Access Service.

Seven Digit Manual Test Line

The term "Seven Digit Manual Test Line" denotes an arrangement which allows the Customer to select balance, milliwatt and synchronous test lines by manually dialing a seven digit number over the associated access connection.

Short Circuit Test Line

The term "Short Circuit Test Line" denotes the end office circuit which provides an ac short circuit termination of the trunk or line by means of a capacitor of at least 4 microfarads.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Shortage of Facilities or Equipment

A condition which occurs when the Telephone Company does not have appropriate cable, switching capacity, bridging or multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Signal Transfer Point (STP)

The term "Signal Transfer Point" (STP) denotes a packet switch which provides access to the Telephone Company's SS7 network and performs SS7 message signal routing and screening. The technical interface specifications, transmission specifications, and diversity requirements for interconnecting to the Telephone Company's SS7 network at the STP are as described in Bellcore Technical Reference Publication TR-TSV-000905.

Signal Transfer Point (STP) Port

The term "Signal Transfer Point (STP) Port" denotes the physical point of termination and interconnection to the STP.

Signaling Point (SP)

The term "Signaling Point" (SP) denotes an SS7 network interface element capable of originating and terminating SS7 trunk signaling messages.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Signaling System 7 (SS7)

The term "Signaling System 7" (SS7) denotes the layered protocol used for standardized common channel signaling in the United States.

Signal-to-C-Notched Noise Ratio

The term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

Subcontractor

The term "Subcontractor" denotes the status of the Telephone Company when contracting directly with a Prime Service Vendor to provide TSP to a service user.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Subtending End Office of an Access Tandem

An end office that has final trunk group routing through that tandem.

Synchronous Test Line

An arrangement in an end office which performs marginal operational tests of supervisory and ring-tripping functions.

Telecommunications Service Priority (TSP) System

Telecommunications Service Priority (TSP) is a regulatory, administrative, and operational system developed by the Federal Government to ensure priority provisioning and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services. The Federal Communications Commission (FCC) defines NSEP telecommunications services as those services which are used to maintain a state of readiness or to respond to and manage any event or crises, which causes or could cause harm to the population, damage to or loss of property, or degrades or threatens the NSEP posture of the United States.

Under the rules of the TSP System, Telephone Companies are authorized and required to provision and/or restore services with TSP assignments before services without such assignments.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Temporary Facilities

The term "Temporary Facilities" denotes facilities used to provide service to a customer for less than the minimum service period or less than one month, whichever is longer, or to provide service while permanent facilities are being constructed.

Terminating Direction

The use of Access Service for the completion of calls from an IC premises to an end user premises.

Termination Charge

The term "Termination Charge" denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period.

Termination Liability

The amount which will be billed if services using specially constructed facilities are terminated prior to the expiration of the Termination Liability Period.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Transmission Measuring (105 Type) Test Line

An arrangement in an end office which provides far-end access to a recorder and permits two-way loss and noise measurements to be made on trunks from a near end office.

Transmission Path

An electrical path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of three hundred (300) to three thousand (3,000) Hz. A transmission path is comprised of physical or derived facilities consisting of any form or configuration of plant typically used in the telecommunications industry.

Trunk

A communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

Trunk Group

A set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Trunk Side Connection

The connection of a transmission path to the trunk side of a local exchange switching system. This type of connection is used when providing FGB, FGC, or FGD Switched Access Service.

Two-Wire (2) to Four-Wire (4) Conversion

An arrangement which converts a four-wire (4) transmission path to a two-wire (2) transmission path to allow a four-wire (4) facility to terminate in a two-wire (2) entity (e.g., a central office switch).

Uniform Service Order Code

The term "Uniform Service Order Code" denotes a three or five character alphabetic, numeric, or an alphanumeric code that identifies a specific item of service or equipment. Uniform Service Order Codes are used in the Telephone Company billing system to generate recurring rates and nonrecurring charges.

V and H Coordinates Method

A method of computing airline miles between two points by utilizing an established formula which is based on the vertical and horizontal coordinates of the two points.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Virtual Connection

The term "Virtual Connection" denotes a logical channel resulting from call establishment to a network address that exists until the call is terminated by either party.

(RESERVED)

WATS Serving Office

The term "WATS Serving Office" denotes a Telephone Company designated serving wire center where switching, screening and/or recording functions are performed in connection with the closed-end of WATS or WATS-type services.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Wire Center

The term "Wire Center" denotes (1) a building in which one or more central offices, including end office switches, used for the provision of Telephone Exchange Services, are located, or (2) in the case of a centralized equal access tandem arrangement, a building in which Telephone Company access facilities are located for purposes of interconnection to customer premises.

Wire Center Area

The term "Wire Center Area" denotes the geographical area served by a Wire Center through the use of central office switching equipment, cross connection equipment, and subscriber loops.

Continued

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

(RESERVED)

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service

Carrier Common Line charges compensate the Telephone Company for the use of Telephone Company provided common lines by customers for access to end users in furnishing Intrastate Communications.

The Switched Access Service associated with Carrier Common Line Access shall be ordered by the customer in accordance with regulations set forth in Section 6 following.

3.1 General Description

Carrier Common Line Access provides for the use of end users' Telephone Company provided common lines by customers for access to such end users to furnish Intrastate Communications at rates and charges set forth in Section 20 following. The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

Premium access is (1) Switched Access Service provided to customers under this tariff which furnish intrastate MTS/WATS, (2) Switched Access Service in an end office converted to equal access.

A Special Access Surcharge will apply to intrastate special access service provided by the Telephone Company to a customer, in accordance with regulations as set forth in Section 7 following.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.2 Access Groups

All line side connections provided in the same access group will be limited to the same features and operating characteristics. All trunk side connections provided in the same access group will be limited to the same features and operating characteristics.

3.3 Limitations

(A) Exclusions

Neither a telephone number nor detail billing are provided with Carrier Common Line access. Additionally, directory listings and intercept arrangements are not included in the rates and charges for Carrier Common Line access.

(B) WATS/WATS-type Access Lines

Where Switched Access Services are connected with Special Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS/WATS-type Services, Switched Access Service minutes which are carried on that end of the service (i.e., originating minutes for outward WATS/WATS-type services and terminating minutes for inward WATS/WATS-type services) shall not be assessed Carrier Common Line per minute charges with the following exception. Carrier Common Line per minute charges shall apply when FGA or FGB Switched Access is ordered from a nonequal access

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.3 Limitations (Cont'd)

(B) WATS/WATS-type Access Lines (Cont'd)

Telephone Company end office or access tandem that does not have measurement capabilities (i.e., cannot create an Automatic Message Accounting record).

3.4 Determination of Usage Subject to Carrier Common Line Charges

Except as set forth herein, all Switched Access Service provided to the customer will be subject to Carrier Common Line charges.

3.4.1 Determination of Jurisdiction

The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for both interstate and intrastate communications. When the customer reports interstate and intrastate use of Switched Access Service, the associated Carrier Common Line Access used by the customer for intrastate will be determined as set forth in 3.6.4 following (Percentage Interstate Use-PIU).

3.4.2 Case Involving Usage Recording By the Customer

Where Feature Group C end office switching is provided without Telephone Company recording and the customer records minutes of use used to determine Carrier Common

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.4 Determination of Usage Subject to Carrier Common Line Charges (Cont'd)

3.4.2 Case Involving Usage Recording By the Customer (Cont'd)

Line Access charges (i.e., Feature Group C operator, and calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls), the customer shall furnish such minutes of use detail to the Telephone Company in a timely manner. If the customer does not furnish the data, the customer shall identify all Switched Access Services which could carry such calls in order for the Telephone Company to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.

3.4.3 Local Exchange Access and Enhanced Services Exemption

Where access to the local exchange is required to provide a customer service (e.g., MTS/WATS-type, telex, Data, etc.) that uses a resold private line service, Switched Access Service Rates and Regulations, as set forth in Section 6 following will apply, except when such access to the local exchange is required for the provision of an enhanced service. Carrier Common Line Access rates and charges as set forth in Section 20 following apply in accordance with the resale rate regulations as set forth in 3.5.2 following.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.4 Determination of Usage Subject to Carrier Common Line Charges (Cont'd)

3.4.4 Common Channel Signaling System 7 (CCS7) Access Service

Carrier Common Line charges do not apply to CCS7 Access Service as described in Section 6.2.5.

3.5 Resold Services

3.5.1 Scope

Where the customer is reselling MTS and/or MTS-type service(s) on which the Carrier Common Line and Switched Access charges have been assessed, the customer may, at the option of the customer, obtain Feature Group A, Feature Group B, or Feature Group D Switched Access Service under this tariff as set forth in Section 6 following for originating and/or terminating access in the local exchange. Such access group arrangements whether single lines or trunks or multiline hunt groups or trunk groups will have Carrier Common Line Access charges applied as set forth in Section 20 following in accordance with the resale rate regulations set forth in 3.5.2 following. For purposes of administering this provision:

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.1 Scope (Cont'd)

Resold intrastate terminating MTS and MTS-type service(s) shall include collect calls, third number calls and credit card calls where the reseller pays the underlying carrier's service charges; and shall not include intrastate minutes of use.

Resold intrastate originating MTS and MTS-type service(s) shall not include collect, third number, credit card or intrastate minutes of use.

3.5.2 Customer Obligations Concerning the Resale of MTS/MTS-type Services

When the customer is reselling MTS/MTS-type service, as set forth in 3.5.1 preceding, the customer will be charged Carrier Common Line Access charges in accordance with the resale rate regulations, as set forth in 3.5.4 following, if the customer or the provider of the MTS/MTS-type service furnishes documentation of the MTS/MTS-type usage. Such documentation shall be supplied each month by the customer and shall identify the involved resold MTS/MTS-type services.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.2 Customer Obligations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

The monthly period used to determine the minutes of use for resold MTS/MTS-type service(s) shall be the most recent monthly period for which the customer has received a bill for such resold service(s). This information shall be delivered to the Telephone Company, at a location specified by the Telephone company, no later than 15 days after the bill date shown on the resold MTS/MTS-type service bill. If the required information is not received by the Telephone Company, the previously reported information, as described preceding, will be used for the next two months. For any subsequent month, no allocation or credit will be made until the required documentation has been received by the Telephone Company.

3.5.3 Resale Documentation Provided By the Customer

When the customer utilizes Switched Access Service, as set forth in 3.5.2 preceding, the Telephone Company may request a certified copy of the customer's resold MTS/MTS-type usage billing from either the customer or the provider of the MTS/MTS-type service. Requests for billing will relate back no more than 12 months prior to the current billing period.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services

When the customer is provided an access group to be used in conjunction with the resale of MTS/MTS-type services, as set forth in 3.5.1 preceding, subject to the limitations, as set forth in 3.3, and the billing entity receives the usage information required, as set forth in 3.5.2 preceding, to calculate the adjustment of Carrier Common Line charges, the customer will be billed, as set forth in (D), (E), or (F) following, depending upon, respectively, whether the usage is from nonequal access offices, equal access offices or a combination of the two.

(A) Apportionment and Adjustment of Resold Minutes of Use

When the customer is provided with more than one access group in a LATA in association with the resale of MTS/MTS-type services, the resold minutes of use will be apportioned as follows:

(1) Originating Services

The Telephone Company will apportion the resold originating MTS/MTS-type services and originating minutes of use for which the resale credit adjustment applies, among the access groups. Such

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services

(A) Apportionment and Adjustment of Resold Minutes of Use

(1) Originating Services

apportionment will be based on the relationship of the originating usage for each access group to the total originating usage for all access groups in the LATA. For purposes of administering this provision:

Resold originating MTS/MTS-type services minutes shall be only those attributable to intrastate originating MTS/MTS-type minutes and shall not include collect, third number, credit card or intrastate minutes of use.

The resale credit adjustment shall apply for resold originating MTS/MTS-type services and minutes of use, provided Carrier Common Line and Switched Access charges have been assessed on such services.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(A) Apportionment and Adjustment of Resold Minutes of Use (Cont'd)

(2) Terminating Services

The Telephone Company will apportion the resold terminating MTS/MTS-type services and terminating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the terminating usage for each access group to the total terminating usage for all access groups in the LATA. For purposes of administering this provision:

Resold terminating MTS/MTS-type services minutes shall be only those attributable to intrastate terminating MTS/MTS-type minutes of use (i.e., collect, third number, and credit card) and shall not include intrastate minutes of use or MTS/MTS-type minutes of use paid for by another party.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(A) Apportionment and Adjustment of Resold Minutes of Use (Cont'd)

(2) Terminating Services (Cont'd)

The resale credit adjustment shall apply for resold terminating MTS/MTS-type services and minutes of use, provided Carrier Common Line and Switched Access charges have been assessed on such services.

(B) Same State/Telephone Company/Exchange Limitation

In order for the rate regulations to apply, as set forth in (D), (E) or (F) following, the access groups and the resold MTS/MTS-type services must be provided in the same state in the same exchange, provided by the same Telephone Company and connected directly or indirectly.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(C) Direct and Indirect Connections

Each of the access group arrangements used by the customer in association with the resold MTS/MTS-type services must be connected either directly or indirectly to the customer designated premises at which the resold MTS/MTS-type services are terminated. Direct connections are those arrangements where the access groups and resold MTS/MTS-type services are terminated at the same customer designated premises.

Indirect originating connections are those arrangements where the access groups and the resold originating MTS/MTS-type services are physically located at different customer designated premises in the same exchange.

Such different customer designated premises are connected by facilities that permit a call to flow from access groups to resold MTS/MTS-type services.

Indirect terminating connections are those arrangements where the access groups and resold terminating MTS/MTS-type services are physically located at different

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(C) Direct and Indirect Connections (Cont'd)

customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from resold terminating MTS/MTS-type services to access groups.

(D) Access Groups - Non Equal Access Offices Only

The adjustments as set forth here and in (E) and (F) following will be computed separately for each access group.

When all usage on an access group originates from and/or terminates at end offices that have not been converted to equal access the Access Charge per minute as set forth in Section 20 following will apply. The Access Minutes which will be subject to Carrier Common Line Access charges will be the adjusted originating intrastate access minutes plus the adjusted terminating intrastate access minutes for such access groups.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(D) Access Groups - Non Equal Access Offices Only (Cont'd)

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

(E) Access Groups - Equal Access Offices Only

When all the usage on an access group originates from and/or terminates to end offices that have been converted to equal access, the access charge per minute, as set forth in (A)(1) will apply. The minutes billed Carrier Common Line charges will be the adjusted originating intrastate access minutes and the adjusted terminating intrastate access minutes for such access groups.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(E) Access Groups - Equal Access Offices Only (Cont'd)

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS/MTS-type service minutes of use, as set forth in (A)(1) preceding, but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS/MTS-type service minutes of use, as set forth in (A)(2) preceding, but not less than zero.

(F) Access Groups - Non Equal Access and Equal Access Offices

When an access group has usage that originates from and/or terminates at both end offices that have been converted to equal access and end offices that have not been converted, the access charge per minute as set forth in Section 20 following will apply respectively. The minutes billed Carrier Common Line intrastate access minutes plus the adjusted terminating Access Service charges will be the adjusted originating intrastate access minutes for such access groups.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(F) Access Groups - Non Equal Access and Equal Access Offices (Cont'd)

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

(G) When the Adjustment Will be Applied to Customer Bills

The adjustment as set forth in (D), (E) and (F) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage report is obtained.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Resold Services (Cont'd)

3.5.4 Rate Regulations Concerning the Resale of MTS/MTS-type Services
(Cont'd)

(H) Conversion of Billed Usage to Minutes

When the MTS and/or MTS-type usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated MTS and/or MTS-type minutes of use. If the MTS and/or MTS-type usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.

(I) Percent Interstate Use (PIU)

The adjustment as set forth in (D), (E) and (F) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in 3.6.4 following (PIU).

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations

3.6.1 Billing and Charges

Carrier Common Line charges will be billed to each Switched Access Service provided under this tariff in accordance with the regulations as set forth in 3.6.5 following except as set forth in 3.5.4 preceding (Resale) and 3.6.4 following (PIU).

3.6.2 Measuring and Recording of Call Detail

When access minutes are used to determine Carrier Common Line charges, they will be accumulated using call detail recorded by Telephone Company equipment except as set forth in 3.6.3 following (Unmeasured FGA and B Usage) and Feature Group C operator and automated operator services systems call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls recorded by the customer. The Telephone Company measuring and recording equipment, except as set forth in 3.6.3 following (Unmeasured FGA and B Usage), will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed on a line by line or trunk by trunk basis, by line group or by end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations (Cont'd)

3.6.3 Unmeasured Feature Group A and B Usage

When Carrier Common Line Access is provided in association with Feature Group A or Feature Group B Switched Access Service in Telephone Company offices that are not equipped for measurement capabilities, an assumed average intrastate access minutes will be used to determine Carrier Common Line Access charges. These assumed access minutes are as set forth in Section 6.7.4(A) and Section 20 following.

3.6.4 Percent Interstate Use (PIU)

When the customer reports interstate and intrastate use of in-service Switched Access Service, Carrier Common Line charges will be billed only to intrastate Switched Access Service access minutes based on the data reported by the customer as set forth in Section 6.6.4 following except where the Telephone Company is billing according to actual usage by jurisdiction. Intrastate Switched Access Service access minutes will, after adjustment as set forth in 3.5.4 preceding (Resale), when necessary, be used to determine Carrier Common Line Charges as set forth in 3.6.5 following.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations (Cont'd)

3.6.5 Determination of Premium Charges

The application of premium rates for a specific customer, as described in Section 6.7.1(B) , is dependent upon the Switched Access feature group and the availability of equal access capabilities in the end office or the WATS Serving Office from which the service is provided.

After the adjustments, as set forth in 3.5.4 preceding, have been applied, when necessary, to Switched Access Service access minutes, charges for the involved customer account will be determined as follows:

- (A) Switched Access Service minutes subject to Carrier Common Line charges will be multiplied by the premium access per minute rate as set forth in Section 20.
- (B) Carrier Common Line charges shall not be reduced, as set forth in 3.5.1, unless Switched Access charges, as set forth in Section 6, are applied to the customer's Switched Access Services.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations (Cont'd)

3.6.5 Determination of Premium Charges (Cont'd)

(C) Terminating access per minute charge(s) apply to:

- all terminating access minutes of use;
- less those terminating access minutes of use associated with Mobile Telephone Switching Offices (MTSOs);
- all originating access minutes of use associated with FGA Access Services used to provide Foreign Exchange Services; and
- all originating access minutes of use associated with calls placed to Service Access Code numbers, less those originating access minutes of use associated with calls placed to 700, 800 and 900 numbers for which the customer furnishes a report of either the number of minutes or a report of the percent of minutes that terminate to a subscriber or common line, rather than a dedicated access line. This report will be provided by the customer on a quarterly basis, indicating for each month thereof or quarter, the information as set forth preceding in order to calculate the common line charges.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations (Cont'd)

3.6.5 Determination of Premium Charges (Cont'd)

(C) (Cont'd)

The customer will provide a report indicating separate common line information for 700, 800 and 900 access minutes, at a statewide level and by jurisdiction.

The report will be based on the calendar year and will be due by the 15th day of the month preceding the quarter for which it is to be applied in order to become effective with the first full month of usage. Should the report be received after the 15th day of the month, the Telephone Company will make every effort to process the report as set forth above. When received by the Telephone Company as described herein, the quarterly report will be used for calculating common line charges on a current bill basis for the next three months usage.

Prorating or back billing will not occur based on the report. Any under or over estimation should be reflected in the subsequent quarterly report.

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations (Cont'd)

3.6.5 Determination of Premium Charges (Cont'd)

(C) (Cont'd)

If a billing dispute arises concerning the customer provided report, the Telephone Company will request the customer to provide the data used to develop the report. The Telephone Company will not request such data more than once a year. The customer shall supply the data within 30 days of the Telephone Company's request.

In the event the customer fails to provide a quarterly report, the Telephone Company will use the previously reported information to calculate the common line charges.

(D) The originating premium per minute charge(s) apply to:

- all originating access minutes of use;
- less those originating access minutes of use associated with Feature Group A Access Services used to provide Foreign Exchange Service;

Continued

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Rate Regulations (Cont'd)

3.6.5 Determination of Premium Charges (Cont'd)

(D) (Cont'd)

- less all originating access minutes of use associated with calls placed to Service Access Code numbers;
- less those originating access minutes of use associated with Mobile Telephone Switching Offices (MTSOs);
- plus all originating access minutes of use associated with calls placed to 700, 800 and 900 numbers for which the customer furnishes a report of either the number of minutes or a report of the percent of minutes that terminate to a subscriber or a common line, and for which a corresponding reduction in the number of terminating access minutes of use has been made as set forth in (D).

3.7 Statement of Concurrence for Universal Service Fund and Lifeline Assistance

The rates, rules and regulations for Universal Service Fund and Lifeline Assistance are the rates, rules and regulations as set forth in the National Exchange Carrier Association Inc.'s Tariff FCC No. 5, Section 8.

Continued

ACCESS SERVICE

4. End User Access Service

4.1 General Description

The Telephone Company will provide End User Access Service to end users who obtain local exchange service from the Telephone Company under its local exchange tariffs.

End User Access provides for the use of an End User Common Line (EUCL) service by an end user.

Use of a Common Line is provided 24 hours a day, seven days a week.

4.2 Limitations

- (A) A telephone number is not provided with End User Access.
- (B) Detail billing is not provided with End User Access.
- (C) Directory listings are not included with End User Access.
- (D) Intercept arrangements are not included with End User Access.
- (E) Lifeline Assistance plans may reduce or eliminate End User Access Charges to certain qualifying end users. Jurisdictions where such locally approved assistance plans are in effect are set forth in 4.8.9(B) following.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.3 Liability

The regulations as set forth in Section 2.1.3 preceding apply to a customer provided with End User Access Services.

4.4 Provision and Ownership of Telephone Numbers

The customer has no property right to the telephone number assignment or any other call number designation associated with End User Access. The Telephone Company reserves the right to assign, designate or change such numbers, or the Telephone Company serving Central Office prefixes associated with numbers, when reasonably necessary in the conduct of its business.

4.5 Undertaking of the Telephone Company

- (A) The Telephone Company will provide the use of an EUCL for access to intrastate access services when the end user obtains local telephone exchange service.
- (B) The Telephone Company will be responsible for contacts and arrangements with end users for the billing of End User Access charges.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.6 Obligations of Radio Common Carriers

When the end user is a Radio Common Carrier (RCC) or provider of paging service, such end users shall designate whether the local exchange service they are provided by the Telephone Company is used as an access line for RCC or paging services, or used as an administrative line.

4.7 Payment Arrangements and Credit Allowance

(A) Minimum Period

The minimum period for which EUCL End User Access is provided to an end user and for which charges are applicable is the same as that in the general and/or local exchange tariffs for the associated local exchange service.

(B) Cancellation of Application

End User Access is canceled when the order for the associated service is canceled. No cancellation charges apply.

(C) Changes to Orders

When changes are made to orders for the local exchange service associated with End User Access, any necessary changes will also be made for End User Access. No charges will apply.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.7 Payment Arrangements and Credit Allowance (Cont'd)

(D) Allowance for Interruptions

When there is an interruption to End User Access, no credit will be allowed for an interruption of less than 24 hours. The customer will be credited for an interruption of 24 hours or more at the rate of 1/30th of the Common Line per month charge for End User Access for each period of 24 hours or major fraction thereof that the interruption continues from the time of notice to the Telephone Company that an interruption has occurred.

(E) Temporary Suspension of Service

When an end user temporarily suspends its local exchange service which is associated with EUCL, one-half of the EUCL per month charge will be temporarily suspended for the time period the local exchange service is suspended.

4.8 Rate Regulations

4.8.1 Who is Billed

EUCL per month charges will be billed to the end user of the associated Local Exchange Service.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.2 Multiparty Service

The EUCL charge for each multiparty subscriber shall be assessed as if such subscriber had subscribed to a single party service.

4.8.3 Semi-Public Service

For the purposes of the EUCL charge, a semi-public service shall be deemed to be the same as a business line if the subscriber pays a rate that is not described as a residential rate in the local exchange tariff.

4.8.4 Business Services

(A) Single Line Service

When an end user is provided a single local business exchange service in a state, semi-public service and multiparty service included, and when this local business exchange service is provided under the general and/or local exchange service tariffs, the EUCL Single Line Business - Individual line or trunk rate as set forth in Section 20 following, applies to each such business individual line or trunk. In the case of multiparty service each party is deemed to be a user of an EUCL.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.4 Business Services (Cont'd)

(B) Multiline Service

When an end user is provided more than one local business exchange service in a state by the same Telephone Company, semi-public service and multiparty service included, and when a local exchange service is provided under the general and/or local exchange service tariffs that is not covered by (C) following (Centrex), the EUCL Multiline Business - Individual line or trunk rate as set forth in Section 20 following, applies to each such Multiline Business individual line or trunk. In the case of a multiparty service each party is deemed to be a user of an EUCL.

(C) Centrex CO and Centrex CO-like Services

For business Centrex CO and business Centrex CO-like service lines or trunks, the EUCL-Centrex CO rate as set forth in Section 20 following applies to each business line or trunk.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.4 Business Services (Cont'd)

(C) Centrex CO and Centrex CO-like Services (Cont'd)

Centrex CO is a service that (1) uses a portion of a Telephone Company switch located at the Telephone Company central office to meet the customer's internal needs and serves as the customer's interface with the local and interexchange networks and (2) links the customer's main stations to the Telephone Company switch with subscriber loops.

Centrex CO-like services are services (e.g., ESSX, Centron, Centraflex, Airport Service, Hotel-Motel Service) that operate in a manner that is substantially the same as Centrex CO and (1) are provided using switches located at Telephone Company central offices and (2) link customer main stations to the Telephone Company switch with subscriber loops.

Centrex CO and CO-like service provided to a college, university or school may serve both the college, university or school offices and the student or faculty dormitory (residential) quarters. When provided to residential quarters, the residential portion of the service is commonly known as dormitory service. Residential

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.4 Business Services (Cont'd)

(C) Centrex CO and Centrex CO-like Services (Cont'd)

charges will apply to lines to the student faculty dormitory (residential) quarters as set forth in Section 20 following. Business charges for lines to the university, college or school offices will apply as set forth in Section 20 following. Charges shall be based on the number of the residence and business lines reported to the Telephone Company by the end user.

4.8.5 Radio Common Carriers

End User Access charges do not apply for each local exchange service used only as a path for the transmission of Radio Common Carrier (RCC) traffic between the Telephone Company serving wire center and the RCC's radio equipment.

End User Access Charges will apply to the Radio Common Carrier's local exchange service used for administrative purposes. This shall also include those Radio Common Carriers providing maritime service under Part 81 of the FCC Rules and Regulations.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.5 Radio Common Carriers (Cont'd)

A Radio Common Carrier is described as a common carrier engaged in the provision of Public Mobile Service, (as defined in Part 22 of the FCC Rules and Regulations), which is not also in the business of providing landline local exchange telephone service.

4.8.6 Remote Call Forwarding

End User Access charges do not apply for each local exchange service provided as Remote Call Forwarding (RCF) residential or business service, under the general and/or local exchange service tariffs.

4.8.7 Common Line Costs for Public Pay Telephones

Common line costs for Public Pay Telephones and related facilities that are available to the general public for convenience and necessity are provided for as set forth for Public Pay Telephone in Section 3 preceding. Semi-public Pay Telephone common lines and related facilities are rated as Business Single Line or Business Multiline as set forth in 4.8.4.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.8 Residence Services

(A) Single Line and Multiline Service

When an end user is provided local residence exchange service(s) in a state, semi-public service and multiparty service included, and when the local residence exchange service is provided under the general and/or local exchange service tariffs, the EUCL Residence - Individual line or trunk rate as set forth in Section 20 following, applies to each such local residence exchange service. In the case of multiparty service each party is deemed to be a user of an EUCL. These rates may be reduced as set forth in 4.8.9 following (Telephone Lifeline Assistance).

(B) Centrex CO and CO-Like Dormitory Service

Regulations concerning the application of EUCL charges to student or faculty dormitory (residential) quarters served by Centrex CO or CO-like service are set forth in 4.8.4(C) preceding.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.9 Telephone Lifeline Assistance

(A) Without FCC Certification

When an end user is provided a local residence exchange service and the residential local exchange rate for the end user is reduced for end users meeting a state established means test that is subject to verification, the applicable EUCL Residence - Individual line or trunk rate as set forth in Section 20 following, shall be reduced by 50 percent, if the local exchange rate reduction is an equivalent amount as provided for in Paragraph 69.104(j) of Part 69 of the FCC Rules and Regulations.

(B) With FCC Certification

When an end user is provided a local residence exchange service and the residential local exchange rate is reduced for end users eligible for a telephone lifeline assistance plan requiring verification and approval by the FCC as provided for in Paragraph 69.104(k) of Part 69 of the FCC Rules and Regulations, the EUCL Residence - Individual line or trunk rate as set forth in Section 20 following shall be reduced. The End User Common Line charge shall be reduced for a single telephone line to the household's principal residence to the extent of the state assistance, equals or exceeds the residential End User Common Line charge.

Continued

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.8 Rate Regulations (Cont'd)

4.8.9 Telephone Lifeline Assistance (Cont'd)

(B) With FCC Certification (Cont'd)

Approved jurisdictions for lifeline assistance plans implemented as provided for in Paragraph 69.104(k) of Part 69 of the FCC Rules and Regulations are listed in 4.9 following.

4.9 Lifeline Assistance Plan Jurisdictions

As set forth in 4.8.9(B) preceding, in the following jurisdictions, the End User Common Line charge shall be reduced by the amount indicated in lifeline assistance plans ordered by the respective state utility commissions and approved by the FCC:

| <u>Jurisdiction</u> | <u>Reduction</u> | <u>Remarks</u> |
|---------------------|------------------|----------------|
| Tennessee | 100% | |

4.10 IntraLATA Toll Dialing Parity Cost (TRA Docket No.96-1235)

The IntraLATA Toll Dialing Cost Recovery Charge applies to each originating intrastate intraLATA access minute-of use and shall be assessed upon all customers that use Local Switching facilities for the provision of Intrastate IntraLATA telecommunications. The charge will be modified on February 8, 1998 to include cost recovery for PIC Change Charges waived from August 8, 1997 to December 5, 1997. The Cost Recovery charge will expire on August 7, 2001.

Continued

ACCESS SERVICE

5. Access Ordering

5.1 General

This section describes the regulations and order related charges for services set forth in other sections of this tariff. Order related charges are in addition to other applicable charges for the services provided.

An Access Order is an order to provide the customer with Switched and Special Access or Access Related Service or to provide changes to existing services.

The regulations, rates, and charges for Special Construction as set forth in Section 10 are in addition to the regulations, rates, and charges specified in this section.

5.1.1 Ordering Conditions

- (A) A customer may order any number of services of the same type and between the same premises on a single Access Order. All details for services for a particular order must be identical except for those for multi-point service.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(A) (Cont'd)

The ordering customer must provide a copy of the access order to the Telephone Company. The customer shall provide all information necessary for the Telephone Company to provide and bill for the requested service. In addition to the order information required in 5.2 following, the customer must also provide:

- Customer name and premises address(es).
- Billing name and address (when different from customer name and address).
- Customer contact name(s) and telephone number(s) for the following provisioning activities:
 1. order negotiation
 2. order confirmation
 3. interactive design
 4. installation
 5. billing

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(B) (RESERVED)

(C) Alternate Traffic Routing

When the Alternate Traffic Routing Optional Arrangement is ordered, more than one Customer Designated Premises (CDP) will be supplied and the number of trunks or BHMC for FGB, FGC and FGD to each CDP shall be specified.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(D) (RESERVED)

(E) Special Access DS3

The provision of Special Access requires the selection of a Terminating Option as Defined in 7.2. When a customer orders a DS3 Special Access Line (SAL) he may specify, on the ASR, if the interface is to be electrical or optical. In the event the customer does not specify an interface preference for DS3, the Telephone Company will provide an electrical interface.

When the customer orders a DS3C SAL, the Telephone Company will provide an optical interface unless service is provided via microwave, in which case an electromagnetic interface is provided, or unless the customer specifies on the ASR a request for an electrical interface.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.2 Service Installation

The Telephone Company will provide the Access Service in accordance with the customer's requested service date, subject to the constraints established by the Telephone Company schedule of applicable service dates.

The Telephone Company shall make available to all customers, upon request, a schedule of applicable service intervals for Switched and Special Access Services. The schedule shall specify the applicable service interval for services and the quantities of services that can be provided by a requested service date. Any associated material will be provided upon request and within a reasonable period of time.

The Telephone Company will not accept orders for service dates which exceed the applicable service date by more than six months.

Access Services will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in Section 9.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.3 Selection of Facilities for Access Orders

When there are analog or digital high capacity facilities to a Hub on order or in service for the customer's use, the customer may request a specific channel or transmission path to be used to provide the Switched or Special Access Service requested in an Access Service Request. The Telephone Company will make a reasonable effort to accommodate the customer request.

For all other Access Service Requests, the option to request a specific transmission path or channel is not provided except as provided for under Special Facilities Routing as set forth in Section 12 following.

5.1.4 Minimum Period

The minimum period for which Access Service is provided, and for which charges are applicable is one month.

When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period.

The Minimum Period Charge for monthly billed services will be determined as follows:

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.4 Minimum Period (Cont'd)

(A) For Switched Access Service the minimum period charge is set forth in Section 6.7.3.

(B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in Section 7.2 following.

(C) The Minimum Period for Miscellaneous Services is in Section 9.

(D) The minimum periods for Special Access DS3 Services are in Section 7.2.

(E) (RESERVED)

(F) The Minimum Period for Services provided under Special Construction provisions and for which charges are applicable in Section 10.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements

Switched Access Service may be ordered by the customer on the basis of a line-side or trunk-side access connections at Telephone Company locations. Trunk side ordering regulations are as set forth in 5.1.5(A) following. Line side ordering regulations are as set forth in 5.1.5(B) following.

(A) Trunk Side Services

Feature Groups B, C, D, 800 and 900 Access services are provided by the Telephone Company via trunk side connections. 900 Access Service Trunks are provided only at Telephone Company designated switches capable of performing the customer identification function for 900 service. All 900 NXX code assignments and administration shall be in accordance with the North American Numbering Plan (NANP). 800 Access Service Trunks are offered only in conjunction with the 800 customer identification function as described in 6.3.5(A) and in conjunction with 800 Data Base Query Service as described in 6.3.5(C). Customers may request 800 access connections to suitably equipped end offices and access tandem offices.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Services (Cont'd)

A list of those offices will be provided upon request. All 800 number assignments shall be administered by the Number Administration Service Center (NASC) through the Service Management System (SMS). When direct routing of 800 or 900 Access Service traffic via 800 or 900 Access service trunks is desired, or when the customer's 800 or 900 Access Service traffic is combined in the same trunk group arrangement with the customer's FGC or FGD traffic, the customer must complete an Access Service Request as set forth in (1) or (1) following.

(1) Switched Transport

Customers may order Feature Groups B, C, D 800 and 900 Switched Transport Services by specifying the number of trunks desired between their premises and the access tandem switch or BHMCs between the customer's premises and the

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Services (Cont'd)

(1) Switched Transport (Cont'd)

end office and the Local Transport and Local Switching Options desired. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide to the Telephone Company an End Office Detail Form specifying an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements. The major traffic types and directionality must also be specified to enable efficient provisioning and billing functions.

There are two major traffic types identified as Originating and Terminating traffic. Because some customers will wish to further segregate their originating traffic into separate trunk groups, originating traffic may be further categorized into Domestic, 800, 900, operator and IDDD.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Services (Cont'd)

(1) Switched Transport (Cont'd)

When a customer orders Feature Group B, C, D, 800 or 900 Switched Transport Service in trunks, the customer is responsible to assure that sufficient access facilities have been ordered to handle this traffic.

Customers may order Feature Groups B, C, D, 800 or 900 Tandem Switched Transport by specifying the number of busy hour minutes of capacity (BHMC) from the customer's premises to the end office by Switched Access arrangement and by type of BHMC. This information is used to determine the number of transmission paths as set forth in Section 6.5.5 following. The customer then specifies the Local Transport and Local Switching options desired, and for FGB the manner in which intrastate communications shall be completed.

Completed

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Services (Cont'd)

(1) Switched Transport (Cont'd)

The BHMC may be determined by the customer in the following manner. For each day (8 am to 11 pm, Monday through Friday, excluding national holidays), the customer shall determine the highest number of minutes of use for a single hour (e.g., 55 minutes in the 10-11 am hour). The customer shall, for the same hour period (i.e., busy hour) for each of twenty consecutive days in a calendar year which add up to the largest number of minutes of use. Both originating and terminating minutes shall be included. The customer shall then determine the average busy hour minutes of capacity (i.e., BHMC) by dividing the largest number of minutes of use figure for the same hour period for the consecutive twenty business day period by 20. This computation shall be performed for each end office the customer wishes to serve. These determinations thus establish the forecasted BHMC for each end office.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements (Cont'd)

(A) Trunk Side Services (Cont'd)

(1) Switched Transport (Cont'd)

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for the Telephone Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer. There are two major BHMC categories identified as Originating and Terminating. Because some customers will wish to further segregate their originating traffic into separate trunk groups, originating BHMCs are further categorized into Domestic, 800, 900, Operator and IDDD.

(B) Line Side Services

Feature Group A Access service is provided by the Telephone Company via line-side connections. All customers shall provide the ordering requirements as follows:

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.5 Switched Access Ordering Requirements (Cont'd)

(B) Line Side Services (Cont'd)

For Feature Group A Switched Access Service, the customer shall specify the number of lines and the first point of switching (i.e., dial tone office), the Local Transport options and Local Switching options desired, and the manner in which intrastate communications shall be completed. In addition, the customer shall also specify which lines are to be arranged in multiline hunt group arrangements and which lines are to be provided as single lines.

When Feature Group A is ordered the customer shall specify whether or not the terminating traffic is to be restricted to the FGA Access Area (local exchange calling area) as set forth in Section 6.3.1(A)(7) following or allowed to extend beyond the FGA Access within the LATA. When Feature Group A traffic is terminated beyond the Access Area but remains within the LATA, the rates for Switched Access as set forth in Section 20.1.4 following, will apply.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements

5.2.1 Switched Access Service

(RESERVED)

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(RESERVED)

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(A) Feature Group A

When placing an order for Feature Group A Switched Access Service, the customer shall provide the following information in addition to that set forth in 5.1 preceding:

- The number of lines and the first point of switching (i.e., Dial Tone Office)
- Optional Features desired
- Whether the Off-hook Supervisory Signaling is provided by the customer's equipment before the called party answers, or is forwarded by the customer's equipment when the called party answers.
- Number of lines to be provided as single lines
- Number of lines to be arranged in multi-line hunt group arrangements

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(A) Feature Group A (Cont'd)

- Directionality (1-way, 2-way, etc.)
- A projected percentage of interstate use (PIU) as set forth in Section 2.3.9 preceding
- The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGA access communications are transported to another state.

(B) Feature Group B

When placing an order for Feature Group B Service, the customer shall provide the following information in addition to that set forth in 5.1 preceding:

- The number of trunks desired
- The end office
- The access tandem office

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(B) Feature Group B (Cont'd)

- Optional Features requested
- Number of trunks to be provided as single trunks
- Number of trunks to be arranged in trunk group arrangements
- Directionality (1-way, 2-way, etc.)
- A projected percentage of interstate use (PIU) as set forth in Section 2.3.9 preceding
- The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGB access communications are transported to another state.
- The access code dialing arrangement (i.e., a uniform access code of 950-1XXX or 950-0XXX).

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(B) Feature Group B (Cont'd)

- For Feature Group B switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer shall provide information to the Telephone Company indicating the NXX code(s) to be accessed.

(C) Feature Group C, Feature Group D and Interim NXX Translation

When placing an order for Feature Group C and D Switched Access Service, the customer shall provide:

- The number of BHMC from the customer designated premises to the end office by Feature Group and by type of BHMC, or Trunk Quantities.
- The number of trunks desired between customer designated premises and an entry switch or Operator Transfer Service location.
- The number of BHMC or trunks required for or to be converted to an SS7 Signaling capability.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(C) Feature Group C, Feature Group D and Interim NXX Translation
(Cont'd)

- Optional Features desired
- A projected percentage of interstate use (PIU) as set forth in Section 2.3.9 preceding.
- For Feature Group D switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company Access tandem office, the customer shall provide information to the Telephone Company indicating the NXX code(s) to be accessed.

When BHMC information is provided it is used to determine the number of transmission paths as set forth in Section 6.5.5 following.

The BHMC may be determined by the customer in the following manner. For each day (8:00 a.m. to 11:00 p.m., Monday through Friday, excluding national holidays), the use for a single hour (e.g., 55 minutes in

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(C) Feature Group C, Feature Group D and Interim NXX Translation
(Cont'd)

the 10-11 a.m. hour). The customer shall, for the same hour period (i.e., busy hour) for each of the twenty (20) consecutive business days, pick the twenty (20) consecutive business days in a calendar year which add up to the largest number of minutes of use. Both originating and terminating minutes shall be included. The customer shall then determine the average busy hour minutes of capacity (i.e., BHMC) by dividing the largest number of minutes of use figure for the same hour period for the consecutive twenty (20) business day period by twenty (20). This computation shall be performed for each end office the customer wishes to serve. These determinations establish the forecasted BHMC for each end office.

Customers may, at their option, order FGD by specifying the number of trunks desired between customer designated premises and an end office or access tandem. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide the Telephone Company an estimate of the

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(C) Feature Group C, Feature Group D and Interim NXX Translation
(Cont'd)

amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements.

When Feature Group D is ordered with the SS7 optional feature, the customer shall specify a reference to existing signaling connections or reference a related SS7 signaling connection order. When ordering SS7 signaling, the customer shall provide the Signaling Transfer Point codes, location identifier codes and circuit identifier codes. In addition, the customer shall work cooperatively with the Telephone Company to determine the number of SS7 signaling connections required to handle its signaling traffic. The access order charge will apply as set forth in Section 20.

(D) 800/900 NXX Code Activation/Deactivation

800 Access and 900 Access Service NXX Code Activation shall be ordered by the customer for an entire Telephone Company serving area, State within a serving

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(D) 800/900 NXX Code Activation/Deactivation (Cont'd)

area, or LATA associated with a Telephone Company serving area. The customer must specify in its Access Service Request, the 800 or 900 NXX codes to be activated or deactivated and the service area desired.

The Telephone Company will activate or deactivate the requested NXX codes in all Telephone Company switches which perform the customer identification function for 800 or 900 Access Service within the service area ordered by the customer.

When a customer's 800 Access or 900 Access Service traffic originates from a Telephone Company end office which is not capable of performing the customer identification function the customer may be required, upon reasonable notice, to provide the Telephone Company an estimate of the amount of traffic it will generate from the end office to assist the Telephone Company in its own efforts to project future facility requirements.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(D) 800/900 NXX Code Activation/Deactivation (Cont'd)

For additional and/or deletions of 800 Access or 900 Access Service NXX(s) subsequent to the initial order for service, the customer shall place an Access Service Request identifying the requested changes at least thirty (30) days prior to the desired effective date in order to allow the Telephone Company sufficient time to implement the change. Calls originating in Telephone Company jurisdictions to NXXs which the customer has not ordered activated will be blocked in the end offices or access tandems which possess the technical capabilities to block such calls.

(E) Coin Services

An Access Service Request (ASR) is required from the customer to add 1+ coin traffic from an end office. At the customer's option, the ASR can be issued at a 1+ coin tandem or end office level. For an initial customer order at a 1+ coin tandem, the Telephone Company must receive the request at least 120 calendar days prior to the requested effective date. Standard provisioning intervals will apply to subsequent orders involving that 1+ coin tandem.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(E) Coin Services (Cont'd)

The customer must provide the Telephone Company with written notification stating that an order is being submitted pursuant to an agreement with a secondary service provider prior to the routing of 1+ interLATA coin traffic to a provider other than the customer.

(F) Common Channel Signaling System 7 Services

Common Channel Signaling System 7 (CCS7) Access Service facilities may be ordered by the customer for interconnection between a Telephone Company Signal Transfer Point (STP) and a customer's premises. CCS7 Access Services shall be ordered and installed pursuant to specifications in Bellcore Technical Reference Publication TR-TSV-000905. Each service application used in conjunction with CCS7 Access Service will require a separate ASR.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(F) Common Channel Signaling System 7 Services (Cont'd)

When ordering SS7 Out of Band Signaling for FGD, 800 or 900 Access Service, the ASR must specify the existing CCS7 Access Service facilities or a related ASR for CCS7 Access Service. The ASR must also include STP point codes, STP location identifier codes, FGD, 800 or 900 Access Service trunk circuit identification codes, and switch type. All traffic carried by that FGD, 800 or 900 Access Service will be equipped with Out of Band Signaling. The customer and the Telephone Company will work cooperatively to determine the number of CCS7 Access Service connections required to handle the customer's CCS7 Out of Band Signaling Traffic.

(G) Line Information Data Base (LIDB)

When ordering a Line Information Data Base (LIDB) Query Service, the customer shall provide an ASR specifying the originating point codes (OPCs) of the customer's designated operator service system (OSS) sending the query or queries, and the desired due date of the order. LIDB Query Service is provided in conjunction with interconnection to the Telephone Company's SS7 network as set forth in Sections 6.3.10 and 6.3.11.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.2 Equal Access Conversions

When an office is scheduled to be converted to equal access, the IC must submit an Access Service Request for FGD service no later than 120 days prior to the end office equal access conversion date in order for the IC to participate in the presubscription process as described in Section 9.3.3. ICs wishing to participate in pay telephone balloting must specify if the carrier will handle 0+ traffic only, both 0+ and 1+ traffic, or 0+ with 1+ traffic being handled by a secondary service provider. When 1+ coin traffic is handled by a secondary service provider, the participating IC must identify the secondary service provider.

Customers may request existing FGA or FGB services be converted to FGD upon the conversion of an office to equal access. Changes in Feature Group types are provided as set forth in Section 6.7.1(A) following.

(A) Feature Group D Facilities Shortages

In the event a shortage of FGD resources exists, the Telephone Company will make every reasonable effort to meet all Access Services Requests as of the equal access conversion date. In the event these efforts are unsuccessful, the Telephone Company will notify all ICs

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.2 Equal Access Conversions (Cont'd)

(A) Feature Group D Facilities Shortages (Cont'd)

requesting FGD service that a shortage of facilities exists and allocation of available facilities among participating ICs is necessary.

The available resources are determined by the Telephone Company and represent the equipment and facility quantities necessary to provide FGD service, excluding intraLATA FGC and intraLATA FGC terminating resources currently in service. If the intraLATA FGC trunks are arranged to carry two-way traffic, one-half will be considered available resources.

FGD resources are allocated to each IC based on the percent of end users that are presubscribed to that IC as counted thirty (30) days prior to the conversion date.

For example, if ten percent (10%) of end users in an end office, or a group of end offices served by a common access tandem, scheduled to be converted to equal access are presubscribed to a particular IC, ten percent (10%) of the total available FGD services will be allocated to that IC.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.2 Equal Access Conversions (Cont'd)

(A) Feature Group D Facilities Shortages (Cont'd)

The quantity of resources in service for each IC as determined by the allocation process will be adjusted on the basis of actual usage and blocking measurements. Actual usage adjustments will be made ninety (90) days after conversion to equal access. If necessary, this reallocation process will continue at three month intervals until all initial service requests have been met.

(B) Operator Services

Operator Services, as described in Section 6.3.7 following, are provided to all customers via Feature Group D Switched Access Service for calls associated with end offices converted to equal access. Operator Services are provided for calls associated with end offices not converted to equal access via Feature Group C Switched Access Services to AT&T only. Operator Service customers must order, if none exists, sufficient Switched Access trunking facilities between their premises and the Telephone Company designated Operator Service switching locations in accordance with the ordering requirements set forth in 5.1 and 5.2

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.2 Equal Access Conversions (Cont'd)

(B) Operator Services (Cont'd)

preceding. At the option of the customer, Operator Transfer and Inward Operator Assistance traffic may be combined on the same trunk group. Operator Service switching locations, in which Operator Services are available, are identified in National Exchange Carrier Association Tariff FCC No. 4. Rates and charges applicable to the provision of Operator Service functions are set forth in Section 20 following.

5.2.3 Special Access Service

(A) General

When placing an order for Special Access Services, the customer must provide the requirements as follows:

For all Special Access Services, the customer must specify the customer designated premises or Hubs involved, the type of service, (e.g., Voice Grade, High Capacity, etc.) the channel interface, technical specification package and options desired. The customer must also indicate the jurisdiction of the circuit as set

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.3 Special Access Service (Cont'd)

(A) General (Cont'd)

forth in Section 7.1.7 following. For DS3 High Capacity Services, the customer must indicate the minimum service period and level of capacity. For multipoint services, the channel interface at each premises may, at the request of the customer, be different but all such interfaces shall be compatible.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.4 WATS or WATS-Type Services

Special Access Service may be ordered for connection with FGA, FGB, FGC, or FGD Switched Access Service at Telephone Company designated WATS Service Offices (WSOs) for the provision of WATS or WATS-Type Services and may be ordered separately by a customer other than the customer which orders the FGA, FGB, FGC, or FGD Switched Access Service. For the Special Access Service the customer shall specify:

- The customer designated premises at which the Special Access service terminates
- The type of line (i.e., two-wire (2) or four-wire (4))
- The type of calling (i.e., originating, terminating or two-way (2))
- Type of Supervisory Signaling.

When the optional screening, switching and/or recording functions are not provided at the customer serving wire center, Channel Mileage, as set forth in Section 7.2.1 following, must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.5 Mixed Use Facilities - Switched and Special Access

Mixed use is the provision of both Switched Access and Special Access Services over the same High Capacity facilities. Mixed use facilities to a hub will be ordered and provided as Special Access Service. Where mixed use is employed, individual services utilizing these facilities must be ordered as Special Access Service as further elaborated and set forth in Section 7.2.6 following.

5.2.6 Miscellaneous Services

Testing Service, Additional Labor, Telecommunications Service Priority and Special Facilities Routing shall be ordered with an Access Order or may subsequently be added to a pending order at any time up to and including the service date for the access service. When miscellaneous services are added to a pending order a service date change may be required. When a service date change is required, the service date change charge as set forth in Section 20 following will apply. When miscellaneous services are added to a pending order, charges for a design change as set forth in Section 20 following, will apply when an engineering review is required. If both a service date change and an engineering review are required, both the Service Date Change Charge, and the Design Change Charge will apply as set forth in 5.3.2 following.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.6 Miscellaneous Services (Cont'd)

The rates and charges for these services, as set forth in Section 20 of this tariff, will apply in addition to the ordering charges set forth in Section 20, and the rates and charges for the Access Service with which they are associated. These charges are also applicable when a customer orders International Blocking.

Additional Engineering is not an ordering option, but will be applied to an Access Order when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in Section 9 following. When it is required, the customer will be so notified and will be furnished with a written statement identifying the reasons for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of the Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than ten percent (10%).

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.7 Discontinuance of Switched Access FGD

A Discontinuance Charge applies if a customer discontinues FGD service provided at the conversion of an end office to equal access. The Discontinuance Charge applies to each FGD trunk discontinued with one exception. When the FGD service is a result of an upgrade from FGB, FGC or SAC Access Service trunks in service prior to conversion to equal access, the Discontinuance Charge will only apply to the number of FGD trunks being discontinued that are in excess of the number of FGB, FGC or SAC Access Service trunks in service prior to conversion to equal access. However, the customer may still be liable for any Minimum Period charges in Section 20 that may be applicable to the FGB, FGC or SAC Access Service trunks that were in service prior to conversion. For purposes of calculating the Discontinuance Charge the Maximum Discontinuance Charge will be amortized in equal monthly increments (i.e., Maximum Discontinuance Charge divided by 12) over a 12 month period beginning on the date the end office converts to equal access. The Maximum Discontinuance Charge is equal to the FGD Maximum Cancellation Charge in Section 20. The charge assessed will be the unamortized portion of the Maximum Discontinuance Charge.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company

Access Services provided by more than one Telephone Company are services where one end of the Local Transport or Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company or where the Interim NXX Translation service and the end office are not provided by the same Telephone Company.

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in Section 2.4.5 preceding, to be used by the Telephone Companies involved in providing the Access Service. The Telephone Company will notify the customer which of the ordering procedures will apply.

5.3.1 Single Company Billing Ordering

The Telephone Company receiving the order from the customer will arrange to provide the service, and bill the customer as set forth in Section 2.4.5(A). The customer will place the order with the Telephone Company as follows:

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

(A) Single Company Billing

5.3.1 Single Company Billing Ordering (Cont'd)

For Switched Access Services the customer will place the order with the Telephone Company in whose territory the first point of switching is located. The first point of switching is:

- FGA - dial tone office
- FGB - access tandem or end office
- FGC - end office
- FGD - end office or access tandem

When the first point of switching is not in the same Telephone Company's territory as the Interexchange Carrier premises, the customer must supply a copy of the order to the Telephone Company in whose territory the Interexchange Carrier premises is located, and any other Telephone Company(s) involved in providing the service.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.1 Single Company Billing Ordering (Cont'd)

(B) Multiple Company (Interconnection Point) Billing

Each Telephone Company will provide its portion of the Access Service within its operating territory to interconnection point(s) with the other Telephone Company(s). The interconnection point(s) and billing percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in National Exchange Carrier Association, Inc., Tariff FCC No. 4. Each Telephone Company will bill the customer for its portion of the service as set forth in Section 2.4.5(B). All other appropriate charges in each Telephone Company tariff are applicable.

When service is ordered under the provisions of the following paragraphs, the customer must also supply a copy of the order to the Telephone Company in whose operating territory a customer designated premises is located and any other Telephone Company(s) involved in providing the service.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.1 Single Company Billing Ordering (Cont'd)

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

- (1) For Feature Group A and B Switched Access Service, the customer must place an order with the Telephone Company in whose territory the first point of switching is located, (i.e., FGA - dial tone office, FGB - access tandem or end office).
- (2) For Feature Group C and D Switched Access Service, the customer must place an order with the Telephone Company in whose territory the end office is located.
- (3) Except for Special Access Service provided as set forth in (4) or (5) below, the customer may place the order for a Special Access Service with either Exchange Telephone Company.
- (4) For Special Access Service involving a hub(s), the customer must place the order with the Telephone Company in whose territory the hub(s) is located.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.1 Single Company Billing Ordering (Cont'd)

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

- (5) For Special Access Service to be interconnected with Switched Access Services at Telephone Company designated WATS Servicing Offices for the provision of WATS or WATS-Type Services, the customer must place an order with each Telephone Company in whose territory the end office and the WATS Service Office are located, if they are not co-located.
- (6) For initiation, additions, changes, or deletions to the 800 NXX code(s), the customer must place an order with the Telephone Company who provides the Customer Identification Function for 800 Access Service. The customer must also provide a copy of the order to the Telephone Companies subtending the office providing Customer Identification.
- (7) When FGA is ordered in a multi-Telephone Company provided Extended Area Service area or FGB is ordered in a multi-Telephone Company

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.1 Single Company Billing Ordering (Cont'd)

(B) Multiple Company (Interconnection Point) Billing (Cont'd)

(7) (Cont'd)

access tandem arrangement, the customer must provide a copy of the order to all Secondary Exchange Carriers. Each Exchange Carrier will bill as set forth in Section 2.4.5 preceding.

(C) EAS Arrangements

Where a customer utilizes FGA to originate and/or terminate calls within an Extended Area Service (EAS) calling area provided by more than one telephone company, as set forth in Section 2.4.5(C) preceding, the customer shall submit an ASR for FGA service in the manner set forth in (A) preceding. The customer shall also provide a copy of the ASR to any other Telephone Company involved in providing the service within the EAS calling area.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications

The customer may request a modification of its Access Service Request prior to the service date. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the modification cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Service Request modification, the Telephone Company will schedule a new service date. All charges for Access Service Request modifications will apply on a per occurrence basis.

Any increase in the number of Special Access Service circuits, lines, trunks or busy hour minutes of capacity, or STP Port Terminations and CCS7 Access Service Facilities will be treated as a new Access Service Request (for the increased amount only).

If order modifications are necessary to satisfy the transmission performance for a Special Access Service ordered by a customer, these changes will be made without order modification charges being incurred by the customer.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications (Cont'd)

(A) Service Date Change Charge (USOC-SUM)

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than thirty (30) calendar days. If the customer is unable to accept the service on the established service date and/or the customer requested service date is more than thirty (30) calendar days after the original service date, the customer will have the following options:

- (1) the original order will be canceled by the Telephone Company, and reissued with appropriate cancellation charges applied, or
- (2) the billing will commence for the services ordered on the original ASR.

If the Telephone Company determines it can accommodate the customer's request without delaying service dates for orders of other customers, a new service date may be established that is prior to the original standard or negotiated interval service date.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications (Cont'd)

(A) Service Date Change Charge (USOC-SUM) (Cont'd)

If the service date is changed to an earlier date, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in (C) following apply. Such charges will apply in addition to the Service Date Change Charge.

A Service Date Change Charge will apply as shown in Section 20 on a per order per occurrence basis, for each service date changed.

(B) Design Change Charge (USOC-H28)

The customer may request a design change to the service ordered. A design change is any change to an Access Service Request which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what changes in the design, if any, are necessary to meet the changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications (Cont'd)

(B) Design Change Charge (USOC-H28) (Cont'd)

Design change charges do not include a change of end user premises, end office switch, Feature Group type or Special Access Service circuit type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the changes can be accommodated and whether a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. The Design Change Charge will apply on a per order per occurrence basis, for each order requiring a design change. The applicable charge is shown in Section 20 of this tariff.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications (Cont'd)

(B) Design Change Charge (USOC-H28) (Cont'd)

If a change of service date is required, the Service Date Change Charge as set forth in (A) preceding will also apply.

(C) Expedited Change Charge

- (1) When placing an Access Service Request a customer may request a service date that is prior to the Telephone Company's published service date interval. A customer may also request an earlier service date on a pending Access Service Request. If the Telephone Company determines that service cannot be provided on the requested date during normal business hours Expedited Order Charges will be computed and billed to the customer. Expedited Order Charges will also apply to access orders submitted with a TSP provisioning priority as described in Section 8.8.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications (Cont'd)

(C) Expedited Change Charge (Cont'd)

(1) (Cont'd)

The Expedited Order Charge is calculated by multiplying the total nonrecurring charge for the quantity ordered times the number of business days from the requested service date to the last date of the service date interval established by the Telephone Company, and dividing that figure by the total number of business days within the applicable service date interval. For Switched Access, only the Installation Charge is used to calculate the Expedited Order Charge. For Special Access, only the Nonrecurring Charge for Service installation is used to calculate the Expedited Order Charge.

(2) If the Telephone Company determines that provision of service on the expedited date will require additional work efforts outside of normal scheduled business hours, the customer will be notified and will be provided with an estimate of

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Access Service Request Modifications (Cont'd)

(C) Expedited Change Charge (Cont'd)

(2) (Cont'd)

the additional charges involved. The charges will be based on the Additional Labor Rates set forth in Section 9 following and are in addition to the Expedited Order Charge calculated in (1) preceding. Actual charges assessed will not exceed the estimate by more than ten percent (10%).

When the request for expediting occurs subsequent to the issuance of the Access Service Request, a Service Date Change Charge as set forth in (A) also applies.

5.3.3 Cancellation of an Access Service Request

A customer may cancel an Access Service Request on any date after receipt of the Access Service Request by the Telephone Company and prior to the installation of service. The cancellation date is the date the Telephone Company receives

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.3 Cancellation of an Access Service Request (Cont'd)

written or verbal notice from the customer that the Access Service Request order is to be canceled. The verbal notice must be followed by written notice confirmation within ten (10) days. If written confirmation of the cancellation is not received by the Telephone Company, the verbal notice will not be considered a valid cancellation notice. When a customer cancels an Access Service Request for the discontinuance of a service, no charges apply for the cancellation.

(A) Delay of Service Date by Customer

If a customer or a customer's end user is unable to accept Access Service within thirty (30) calendar days after the original service date, the customer has the choice of the following options:

- The Access Service Request shall be canceled and charges described in (C) following will apply, or
- Billing for the service will commence.

In such instances, the cancellation date or the billing date, depending on which option is selected by the

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.3 Cancellation of an Access Service Request (Cont'd)

(A) Delay of Service Date by Customer

customer, shall be the thirty-first (31st) day beyond the original service date of the Access Service Request.

(B) Delay of Service Date by Telephone Company

If the Telephone Company misses a service date by more than thirty (30) days due to circumstances over which it has direct control (excluding, e.g., Acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Service Request without incurring cancellation charges.

(C) Cancellation Charge

When a customer cancels an Access Service Request prior to the service date, the Cancellation Charge specified in (1) or (2) following, shall apply:

- (1) For Special Access, the Cancellation Charge is calculated, on a per order basis, by multiplying the total nonrecurring charge for the quantity ordered

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.3 Cancellation of an Access Service Request (Cont'd)

(C) Cancellation Charge (Cont'd)

(1) (Cont'd)

by the number of business days elapsed since the order date, and dividing that figure by the number of days in the service interval (i.e., the number of business days between the order date and the last day of the service date interval).

- (2) For Switched Access, the Cancellation Charge is calculated, on a per order basis, by multiplying the total installation charge for the quantity ordered by the number of business days elapsed since the order date, and dividing that figure by the number of days in the service interval (i.e. the number of business days between the order date and the last day of the service date interval), and adding the ASR charge.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.3 Cancellation of an Access Service Request (Cont'd)

(D) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service circuits or Switched Access Service lines, trunks, busy hour minutes of capacity or CCS/SS7 Port Terminations on a pending ASR will be treated as a partial cancellation. The charge will be determined by multiplying the total switched access installation or special access nonrecurring charge for the canceled portion of the order by the number of business days elapsed since the order date and dividing that figure by the number of days in the service interval.

5.3.4 Minimum Period Charges

- (A) When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. A disconnect constitutes facilities being returned to available inventory.

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company
(Cont'd)

5.3.4 Minimum Period Charges (Cont'd)

(A) (Cont'd)

For purposes of applying minimum period charges, the disconnect date shall be two business days after the date the Telephone Company receives written notification from the customer, or the date the customer requests service be disconnected, whichever is the later date.

(B) The Minimum Period Charge for monthly billed services will be determined as follows:

For Switched Access usage sensitive rate elements, the charge for the minimum period, or fraction thereof, is equal to the applicable rates for the actual or assumed usage for the minimum period or such fraction thereof.

For Special Access, other than DS3 Service, the charge is the applicable monthly rate for the service(s) as in 20. For Special Access DS3 Service, the charges are in Section 7.2.7(C)

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company
(Cont'd)

5.3.5 Switched Access Minimum Capacity Requirements

- (A) When a customer orders Switched Access, it will be provided subject to the minimum capacity provisions in 5.3.5(B) through 5.3.5(D).
- (B) There is no minimum capacity for Interface Arrangements 1 and 2 in 5.3.5(D). However, for Interface Arrangements 3 through 10 the minimum capacity is in 5.3.5(D). A description of Interface Arrangements is found in Section 11.
- (C) For the purpose of administering the minimum capacity provisions, different Switched Access feature groups for the same customer may be grouped together if the facilities provided for all the connections are the same and terminate in the same facilities terminal in the same Telephone Company access tandem or end office.
- (D) The following table provides the total capacity of the interface and the thresholds for minimum ASR requirements. When the customer requests one of the following it is required to order sufficient lines for FGA, and sufficient trunks or BHMCs for FGB, FGC, FGD and

Continued

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company
(Cont'd)

5.3.5 Switched Access Minimum Capacity Requirements (Cont'd)

(D) (Cont'd)

SAC Access Service to satisfy the minimum capacity. When the customer requests more than one of the same Interface Arrangements, it is required to meet the total minimum capacity of all such Interface Arrangements.

| <u>Interface Arrangement</u> | <u>Interface Type</u> | <u>Interface Name</u> | <u>Total Capacity (circuits)</u> | <u>Minimum Capacity (circuits)</u> |
|------------------------------|-----------------------|-----------------------|----------------------------------|------------------------------------|
| 1 | Voice Frequency | 2-wire | 1 | N/A |
| 2 | Voice Frequency | 4-wire | 1 | N/A |
| 3 | Analog | Group | 12 | 9 |
| 4 | Analog | Supergroup | 60 | 42 |
| 5 | Analog | Mastergroup | 600 | 420 |
| 6 | Digital | DS1 | 24 | 17 |
| 7 | Digital | DS2 | 48 | 34 |
| 8 | | | | |
| 9 | Digital | DS3 | 672 | 471 |
| 10 | Digital | DS3C | 1344 | 941 |

Continued

ACCESS SERVICE

6. Switched Access Service

6.1 General

The Telephone Company adopts Section 6 and the associated rates in Section 20 Frontier Telephone Companies Tariff FCC No. 1 (the Telephone Company's interstate access tariff) effective as of April 1, 2012, and any successive issues thereto. This tariff was filed with the FCC on behalf of the Telephone Company and affiliated companies. This tariff includes all the rules, regulations, rates and charges under which interstate access services will be offered. Exceptions to this adoption of the tariff schedules, if any, are as follows and in Section 20.1.4 and 20.2.4.

(C)

(C)

ACCESS SERVICE

7. Special Access Service

7.1 General

Special Access provides a transmission path to connect customer designated premises* within a LATA for Intrastate Telecommunications. Special Access provided to a customer may be connected directly to customer facilities, through Telephone Company Hub Wire Centers where bridging or multiplexing functions are performed, and/or may be connected to access facilities of another telephone company or companies in the joint provision of Special Access Service as well as may be connected to Switched Access as set forth in Section 6.

The provision of Switched Access and Special Access in combination is normally for, but not limited to, the use of WATS or WATS-type Access. When Special Access is connected to Switched Access, the terms, conditions and rates for the facilities between the end user's customer designated premises and the WATS Serving Office are as set forth in this section of the tariff; the terms, conditions and rates for the facilities between the WATS Serving Office and the IC's customer designated premises, as well as the switching functionalities (e.g., end user access codes, screening) are as set forth in Section 6 of this tariff.

Special Access can be provided in either analog or digital format. Analog formats are differentiated by spectrum and bandwidth. Digital formats are differentiated by bit rate. The specific types of Special Access (e.g., Voiceband, Digital Data Service) provided are described in 7.1.2 following.

* Telephone Company Centrex CO-like switches are considered to be CDPs for the purpose of this tariff.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service

7.1 General (Cont'd)

Certain Special Access Services listed in this section of the tariff may not be currently offered in all Telephone Company locations but may be provided upon customer request, on an individual case basis, if facilities can be made available with reasonable effort. The Telephone Company will work cooperatively with the Customer to provide the service on a timely basis.

7.1.1 Circuit Types

There are four types of circuits used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic circuit and select from a list of those available transmission parameters and channel interfaces that they desire in order to meet specific communications requirements.

For purposes of ordering circuits, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the circuit nor to

Continued

ACCESS SERVICE

7. Special Access Service

7.1 General (Cont'd)

7.1.1 Circuit Types (Cont'd)

imply that the circuit is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a circuit that is identified as Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of circuit:

Voice Grade - a circuit for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Program Audio - facilities to be used in connection with broadcast audio services must be ordered from Citizens FCC Tariff #1.

Video - facilities to be used in connection with broadcast video services must be ordered from Citizens FCC Tariff #1.

Digital Data - facilities for this service are furnished for the simultaneous two-way transmission of synchronous data presently utilized for the following data speeds: 2.4 kbps, 4.8 kbps, 9.6 kbps, 19.2 kbps or 56 kbps. Digital Data facilities may be provided on a two-point or multi-point basis.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Circuit Types (Cont'd)

High Capacity - a circuit for the transmission of isochronous serial digital data at rates of 1.544, 6.312, 44.736 or Mbps.

Detailed descriptions of each of the channel types are provided in 7.4 through 7.9 following.

The customer also has the option of ordering Voice Grade and High Capacity facilities (i.e., 1.544 Mbps, 6.312 Mbps, and 44.736 Mbps) to Telephone Company hubs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.4 and 7.9 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.4.3 through 7.9.4 following.

7.1.2 Service Descriptions

For the purposes of ordering, there are three (3) categories of Special Access Service. These are:

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

Service Designator Codes

| | |
|---------------|----|
| Voice | VG |
| Digital Data | DA |
| High Capacity | HC |

Each service consists of a basic channel to which a technical specifications package, (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer.

Technical specification packages and optional features and functions are described in 7.4.2 following. Channel interfaces are described in Section 11.1 following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

The channel descriptions provided in 7.4 through 7.9 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, between hubs, or between a customer designated premises and a WATS Serving Office.

- (A) Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is as set forth in Section 11 following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

- (B) Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in Section 11.3 following, in a combination format.
- (C) Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (E) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.
- (D) The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in the provision will be maintained at the performance levels specified in this tariff.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

- (E) The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in matrices set forth in 7.4.2 following with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (F) All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

| | |
|-------------|--------------------|
| Voice Grade | PUB TR-NPL-000335 |
| | PUB TR-TSY-000335 |
| | PUB 41004, Table 4 |

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

| | |
|---------------|--|
| Digital Data | TR-NPL-000341 and associated Addendum PUB 62310 |
| High Capacity | TR-INS-000342 PUB TR-NPL-000342 PUB 62411 PUB TR-NPL-000054 |

7.1.3 Service Configurations

There are two (2) types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office (WSO).

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

All Special Access offerings may be provided as a two-point configuration.

The applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

A Special Access Surcharge, as set forth in 7.3 following, may be applicable.

Continued

ACCESS SERVICE

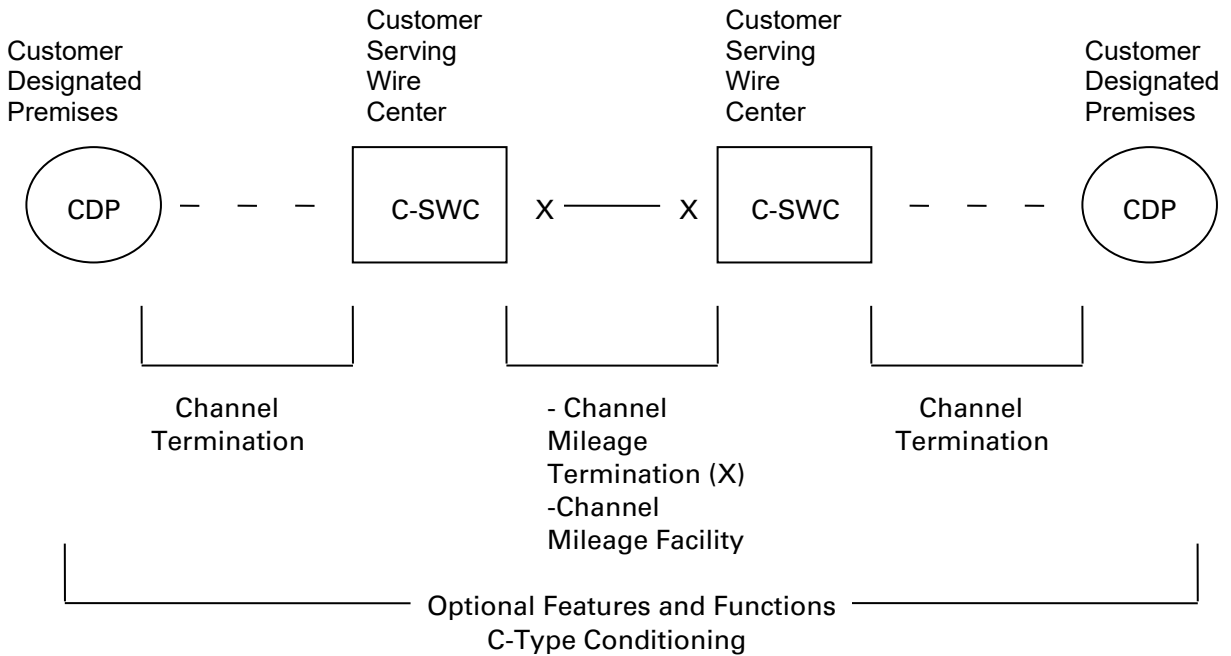
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade service connecting two (2) Customer Designated Premises (CDP). The service is provided with C-Type conditioning.



Applicable rate elements are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage
 - 2 Channel Mileage Termination plus
 - 1 section, Channel Mileage Facility per mile
- C-Type Conditioning Optional-Feature

Continued

ACCESS SERVICE

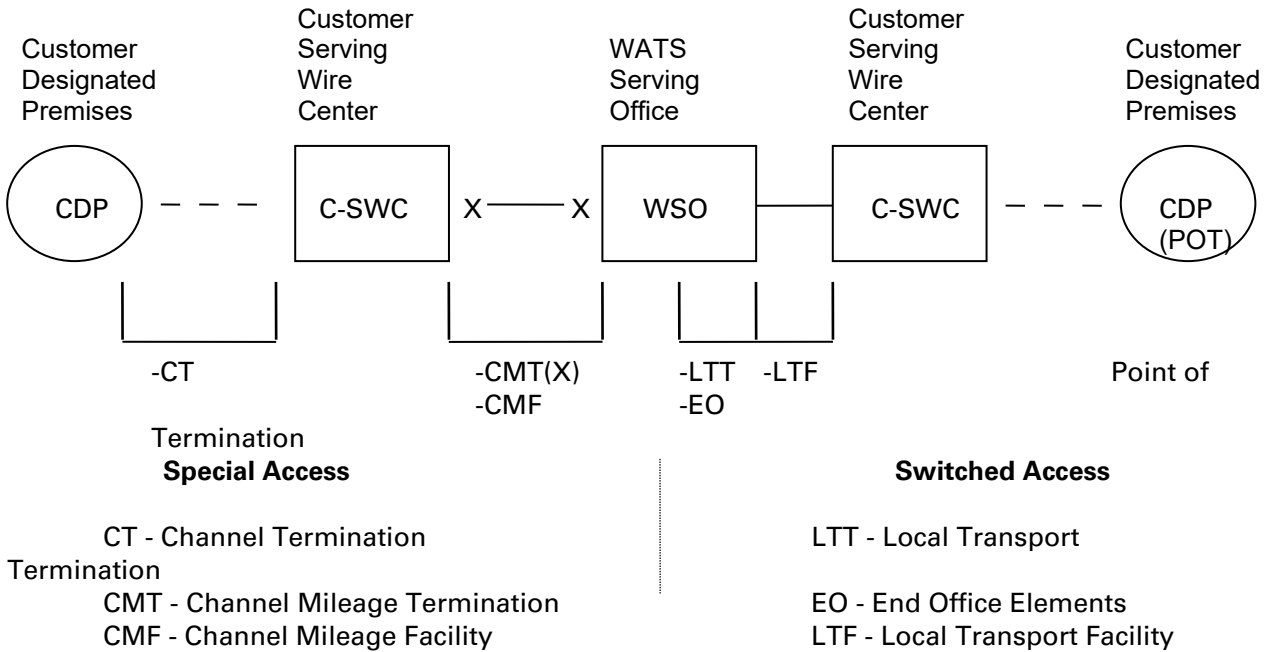
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade service connecting two (2) Customer Designated Premises (CDP). The service is provided with C-Type conditioning.



Applicable rate elements for Special Access are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage
 - 2 Channel Mileage Termination plus
 - 1 section, Channel Mileage Facility per mile
- C-Type Conditioning Optional-Feature
- Special Access Surcharge*

* May not apply if exemption certification is provided.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service

Multipoint service connects three (3) or more customer designated premises through one (1) or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multi-point service. However, when more than three (3) mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding and Section 11.2 following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

When ordering, the customer will specify the desired bridging hub(s). NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF FCC NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

The following diagram depicts an example of a Voice Grade multipoint service connecting four (4) customer premises via two (2) customer specified bridging hubs.

Continued

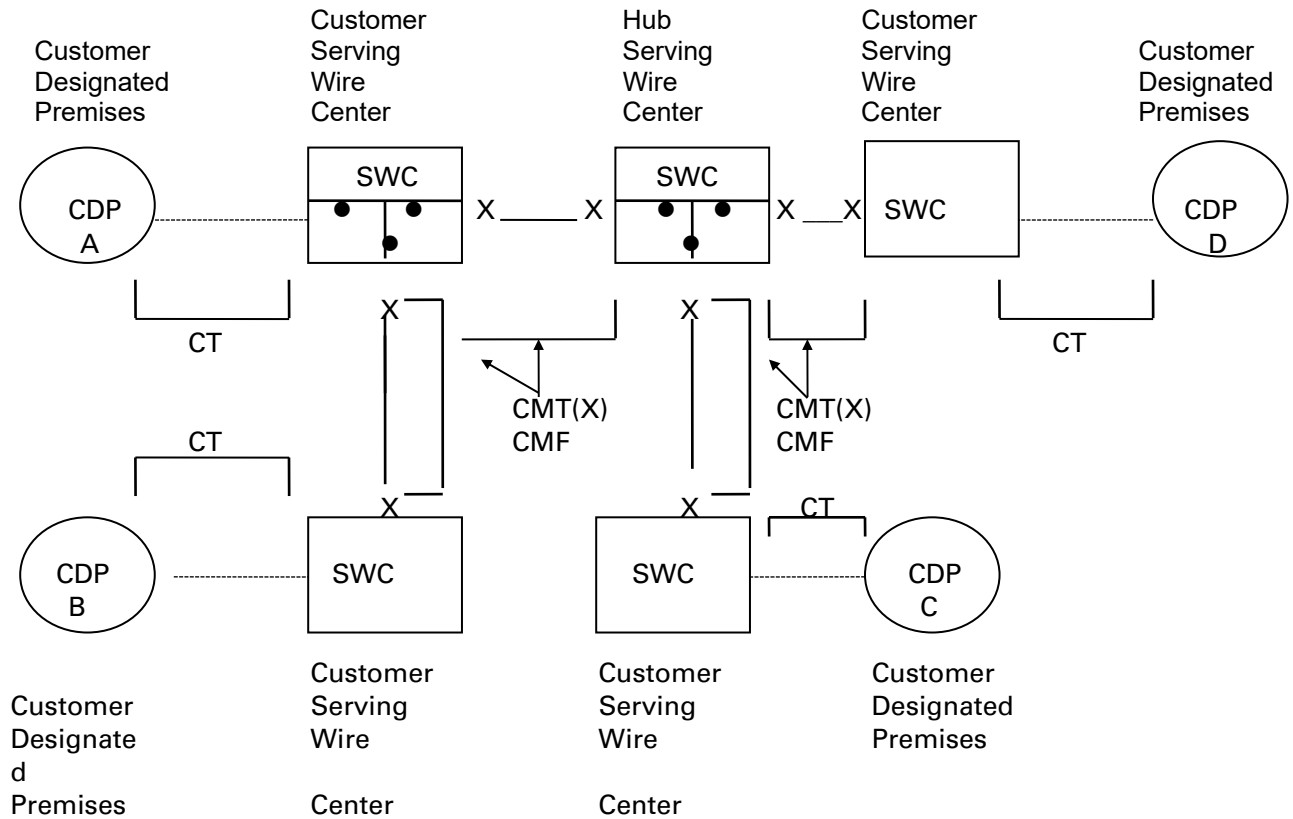
ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)



CT - Channel Termination
 CMT - Channel Mileage Termination
 CMF - Channel Mileage Facility
 ● -Bridging Port

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections - fixed rate plus rate per mile between SWC)
- Bridging (6 applicable, i.e., each bridge port)
- Additional Optional Features and Functions (when applicable)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one (1) operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 20 following. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered [i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)].

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 12 following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.6 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test the following at the time of installation:

- (A) For Voice Grade analog services, the acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order of service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For digital services, (i.e., Digital Data and High Capacity), acceptance tests will include tests applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters, as described in Section 9.4 following, is available at the customer's request. All test results will be made available to the customer upon request.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.7 Ordering Options and Conditions

Ordering conditions are set forth in detail in Section 5 preceding. Also included in that section, are other charges which may be associated with ordering Special Access (e.g., Service Date Change Charges, Cancellation Charges, etc.).

(A) Determination of Jurisdiction of Mixed Use Special Access Lines

When mixed interstate and intrastate Special Access Service is ordered, the jurisdiction will be determined as follows:

- (1) If the customer's estimate of the intrastate traffic on the physically intrastate line involved constitutes 10% or less of the total traffic on that line, the line will be ordered and provided in accordance with the applicable rules and regulations of the appropriate intrastate tariff.
- (2) If the customer's estimate of the interstate traffic on the physically intrastate line involved constitutes more than 10% of the total traffic on that line, the line will be ordered and provided in accordance with the applicable rules and regulations of Citizens Telecommunications Company's FCC Tariff #1.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.7 Ordering Options and Conditions (Cont'd)

(B) Special Access Jurisdictional Verification

If a billing dispute arises or a regulatory commission questions the customer's certification of the jurisdiction of the line the Telephone Company will ask the customer to provide the data used to determine the jurisdiction. The customer shall supply the data within 30 days of the Telephone Company's request. The customer shall keep records of system design and functions from which the jurisdiction can be ascertained and upon request of the Telephone Company make the records available for inspection as reasonably necessary for purposes of verification of the jurisdiction of the service.

7.1.8 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designating its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.2.1 Rate Categories

There are three (3) basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and Functions (described in 7.2.1(C) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(A) Channel Termination (CTs) (Cont'd)

signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (C) following. One (1) Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

Installation of DS1/DS3 CT is as set forth channel terms in 7.2.2(B)(4). The applicable rates are the nonrecurring charge and monthly rate set forth Channel terms 7.2.1 (4) per DS1 /DS3 CT installed.

(M) (T)

| |

(M) (T)

(B) Channel Mileage

The Channel Mileage rate category provides for the end office equipment and transmission facilities between serving wire centers and/or Telephone Company hubs. In addition, when Special Access is used in conjunction with Switched Access Service as set forth in Section 6.3.9 preceding for Switched Access Interface Arrangements, and the end office serving the customer's end user premises is not a WATS Serving Office.

(M)

|

(M)

Continued

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(B) Channel Mileage (Cont'd)

(M)

(M)

(D)

(D)

Channel mileage rates are made up of the Channel mileage facility rate and the Channel mileage termination rate

(N)

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s) and includes primarily outside plant used to provide the facility.

(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). Channel Mileage Termination rate will apply at the serving wire center(s) for each Customer designated premises and Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone Company bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

(N)

Continued

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(B) Channel Mileage (Cont'd)

(M)

(M)

(D)

(D)

(C) Optional Features and Functions

Optional Features and Functions may be added to a basic circuit service to improve its quality or utility to meet the customer's specific communications requirements. These optional features and functions are identifiable with specific equipment, and represent the end result in terms

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Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(C) Optional Features and Functions (Cont'd)

of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for a single rate element.

Descriptions for each of the available Optional Features and Functions are set forth in Sections 7.4 through 7.8 following. Specific rate applications for multiplexing are set forth in 7.2.6 following.

(D) (RESERVED)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges

There are two (2) types of rates and charges. These are monthly rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have thirty (30) days.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for installation of Special Access Service, installation of optional features and functions, and moves and service rearrangements.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in Section 5.3.2 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as described below:

(a) Moves

A move involves a change in the physical location of either the customer's premises or a point of termination at the customer's premises. The charges for the move are dependent on whether the move is to be a new location within the same building or to a different building.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Service Rearrangements (Cont'd)

(b) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

(c) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and a start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Service Rearrangements (Cont'd)

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility is as set forth in Section 2 preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change.

Nonrecurring charges are one-time (1) charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. These charges are in addition to the Access Order Charge as specified in Section 20 following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Service Rearrangements (Cont'd)

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer test line number,
- Change of billing account number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Service Rearrangements (Cont'd)

All other service rearrangements will be charged as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the channel termination rate element will apply.
- The charge(s) will apply only for the location(s) that is being added. The charge(s) will be in addition to an Access Order Charge as set forth in Section 20 following.
- If the change involves the addition of an optional feature or function, or if the change involves changing the type of signaling on a Voice Grade service, and for all other changes, the Access Order Charge as set forth in Section 20 following will apply.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are applied per Circuit Termination.

Two levels of charges apply for the installation of a three or twelve capacity DS3 High Capacity system as set forth in 7.2.7 following. A nonrecurring charge applies for the first Channel Termination ordered by the customer and a separate nonrecurring charge will apply to each additional Channel Termination to be installed within the same three or twelve capacity system between the same customer locations. For individual non-capacity DS3 service, the nonrecurring charge for each installation will apply at the same rate per DS3 Channel Termination.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Installation of Service (Cont'd)

This charge does not apply to installations involving DS1 SAL, or DS3 SAL. The installation charge for these services are set forth in 7.2.2(B)(4) and 7.2.2(D)(5) following.

(3) Installation of Optional Features and Functions

When optional features and functions are installed coincident with the initial installation of service, no separate nonrecurring charge is applicable. When optional features and functions are installed or changed subsequent to the installation of service, an Access Order Charge as specified in Section 20 following will apply per order.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(4) Installation of DS1 and DS3 Special Access Lines

There are two levels of NRC and monthly charges for the installation of a DS1 SAL as set forth in Section 20. The "First System" charge is assessed per SAL for the first DS1 service ordered by a customer between Customer Designated Premises or a hub wire center. When the same customer requests additional DS1 service on the same ASR, to be installed at the same time between the same Customer Designated Premises as the "First System" DS1 SAL, the lesser charge under "Additional System" will apply.

There are two levels of charges for the installation of 3 System DS3 and Unlimited System DS3 SALs as set forth in Section 20. The "First System" charge is assessed for the first DS3 SAL ordered by a customer. When the same customer requests additional DS3 SALs, to be installed between the same locations, the "Additional System" charge will apply for each SAL ordered (maximum of two Additional System SALs in a 3 System DS3 and no maximum in an Ultimate System DS3).

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(4) Installation of DS1 and DS3 Special Access Lines (Cont'd)

For Individual DS3s, the charge for installation will apply at the same rate per DS3 SAL, and for Group System DS3s, the charge applies per Group System SAL.

(5) Design Change Charge

The Customer may request a design change to the service ordered. A design change is any change to a pending ASR for Special Access Service which requires engineering review. Design changes include such things as the addition or deletion of supplemental features or changes in the terminating options. Design changes do not include a change of IC customer designated premises or end user premises when its serving wire center changes or Special Access service type (e.g., 2-wire to 4-wire Voiceband).

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(5) Design Change Charge (Cont'd)

Changes of this nature will require the issuance of a new ASR and the cancellation of the original ASR. The cancellation charges apply as set forth in Section 5.3.3 preceding.

The Telephone Company will review the requested change, notify the customer whether the change can be accommodated and specify if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply.

The Design Change Charge, as set forth in Section 20 following, will apply on a per ASR per occurrence basis, for each ASR requiring a design change.

If a change of service date is required, the Service Date Change Charge as set forth in Section 5 preceding will also apply.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(6) Special Access Ordering Charges

Special Access Ordering Charges are associated with the work performed by the Telephone Company in connection with the receiving, recording and processing of customer service requests. There are two types of service ordering charges.

(a) Initial Ordering Charge - Special Access
(USOC - SESCL)

This charge applies on a per Access Service Request (ASR) basis, including those requests to add additional termination to an existing service.

(b) Subsequent Ordering Charge - Special Access
(USOC - SESBX)

This charge applies on a per ASR basis for modifications to an existing service. This would include activities such as:

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(6) Special Access Ordering Charges (Cont'd)

- Additions of supplemental features and multiplexing arrangements.
- Changes in the type of transport rate option from Switched Transport to Special Transport for FGA and FGB Switched Access Service as described in Section 6.1 preceding.

7.2.3 Minimum Periods

The minimum service period for all services except High Capacity DS3 services is one month. The minimum period for High Capacity DS3 Service is that period requested by the customer as set forth in 7.2.7(C) following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.4 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e.,

- the serving wire centers associated with two (2) customer designated premises,
- a serving wire center associated with a customer designated premises and a Telephone Company hub,
- two (2) Telephone Company hubs,
- or between the serving wire center associated with a customer designated premises and a WATS Serving Office.

The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC NO. 4, then multiply the resulting number of miles times the

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.4 Mileage Measurement (Cont'd)

Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. When more than one (1) Telephone Company is involved in the provision of service, billing will be accomplished as set forth in Section 5.3.1 preceding.

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e.,

- customer designated premises serving wire center to hub,
- hub to hub, and/or
- hub to customer designated premises serving wire center.

However, when any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.4 Mileage Measurement (Cont'd)

See the service configuration example for multipoint service as set forth in 7.1.3 preceding.

7.2.5 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1, DS2, or DS3) to a facility hub for channelizing to individual services requiring lower capacity facilities.

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one (1) location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC NO. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.5 Facility Hubs (Cont'd)

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from high capacity to voice frequency channels

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.5 Facility Hubs (Cont'd)

multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one (1) of the lesser capacity channels is further demultiplexed. For example, 6.312 Mbps High Capacity service is de-multiplexed, to four DS1 channels and then one (1) of the DS1 channels is further de-multiplexed to 24 individual Voice Grade Channels.

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.6 Mixed Use Analog and Digital High Capacity Services

Mixed Use refers to a rate application applicable only when the customer orders High Capacity Special Access facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a Telephone Company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as mixed use.

Shared use of Special Access Cross Connect and Expanded Interconnection service are not available.

Except as noted above, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the mixed use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed use facility.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.6 Mixed Use Analog and Digital High Capacity Services (Cont'd)

When Special Access Service is provided utilizing a channel of the mixed use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided. The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination, Channel Mileage, and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). Switched Access Service rates and charges, as set forth in Section 20 following, will apply for each channel that is used to provide a Switched Access Service.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.6 Mixed Use Analog and Digital High Capacity Services (Cont'd)

The customer must place an order for each individual Switched or Special Access Services utilizing the Mixed Use Facilities and specify the channel assignment for each such service.

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

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Vice President Regulatory & Government Affairs
Citizens Telecommunications Company
180 South Clinton Avenue
Rochester, New York 14646

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (USOC-S25)

7.3.1 General

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

7.3.2 Application

(A) The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device, where through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection functions are performed in equipment located at the customer's premises or in a Centrex CO-type switch.

(B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:

- (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA equivalent ONALS; or
- (2) an analog channel termination that is used for radio or television program transmission; or
- (3) a termination used for TELEX service; or

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (USOC-S25)

7.3.2 Application (Cont'd)

(B) (Cont'd)

- (4) a termination that by the nature of its operating characteristics could not make use of the Telephone Company common lines such as, terminations which are restricted through hardware or software; or
- (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or
- (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

7.3.3 Exemption of Special Access Service

- (A) Special Access Services which are terminated as set forth in 7.3.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company as follows:

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (USOC-S25)

7.3.3 Exemption of Special Access Service (Cont'd)

(A) (Cont'd)

- at the time the Special Access Service is ordered or installed;
- at such time as the service is re-terminated to a device which does not interconnect the service to local exchange facilities; or
- at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

(B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date which the exemption is effective.

(C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or re-terminated such that the exemption is no longer applicable.

(D) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (USOC-S25)

7.3.4 Rate Regulations

- (A) The surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as illustrated in the following example:

| <u>Special Access Service</u> | <u>Voice Grade Equivalent</u> | <u>Monthly Surcharge</u> | <u>Charge</u> |
|-------------------------------|-------------------------------|--------------------------|---------------|
| DS1 | 24 x | \$25 = | \$600.00 |

The preceding example illustrates the maximum number of surcharges applicable to a DS1. If the customer claims exemption(s) as set forth in 7.3.3 preceding or, is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

In the case of multipoint Special Access Services, one (1) Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.

- (B) The telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (USOC-S25)

7.3.4 Rate Regulations (Cont'd)

(C) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3 preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in letter of certification.

Continued

ACCESS SERVICE

7.4 Voice Grade Service

7.4.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 HZ and may be terminated two-wire (2) or four-wire (4). Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

Voice Grade Special Access services are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way (1) or simultaneous two-way (2)), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in Section 20 following.

7.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in the following matrix. Compatible network channel interfaces are set forth in Section 11.3 following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.2 Technical Specifications Packages and Network Channel Interfaces
 (Cont'd)

| PackageVG Parameter | <u>C</u> | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> | <u>CA</u> |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Attenuation Distortion | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| C-Message Noise | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Echo Control | X | X | X | X | | X | | X | X | | | X | X | X |
| Envelope Delay Distortion | X | | | | | | X | X | X | X | X | X | X | X |
| Frequency Shift | X | | | | | | X | X | X | X | X | X | X | X |
| Impulse Noise | X | | | | | X | X | X | X | X | X | X | X | X |
| Intermodulation Distortion | X | | | | | | X | X | X | X | X | X | | X |
| Loss Deviation | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Phase Hits, Gain Hits & Dropouts | X | | | | | | | | | | | | | |
| Phase Jitter | X | | | | | | X | X | X | X | X | X | X | X |
| Return Loss | | | | | | | | | | | | | | X |
| Signal-to-C Message Noise | | | | | X | | | | | | | | | |
| Signal-to-C Notch Noise | X | | | | | X | X | X | X | X | X | X | X | X |

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NWT-000334 and TR-TSY-000335. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

* The desired parameters are selected by the customer from the list of available parameters.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions

(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire (2) and four-wire (4))
- (2) Data Bridging (two-wire (2) and four-wire (4))
- (3) Multipoint Data Bridging (USOC - B5NDJ)

This feature provides the capability to derive a multipoint data circuit from a single facility and is normally provided on Voiceband facilities provided for transmission of data signals. This function is provided on a per port basis. Polled multipoint data circuits are a typical application of this feature.

- (4) Voice Conference Bridging (USOC - B5NVJ)

Bridging arrangement to connect multiple Voiceband facilities in order that a voice frequency input signal from any location will be reproduced at the output of all other circuit locations. This function is provided on a per port basis.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(A) Central Office Bridging Capability (Cont'd)

The rates for these options are set forth in Section 20 following.

(B) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. The rates for these options are set forth in Section 20 following.

For two-point services, the parameters apply to each service as measured end-to-end. For multipoint services, the parameters apply as measured on each mid-link or as measured on each end link. C-Type conditioning and Data Capability may be combined on the same service.

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-TSY-000335.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(B) Conditioning (Cont'd)

(2) Improved C-Type Conditioning

Improved C-Type Conditioning options are provided in conjunction with C-Type Conditioning at the rates set forth in Section 20 following. The C-Type Conditioning rate shall apply only once regardless if one or both of the following Improved Options are ordered.

(3) Data Capability (D Conditioning)

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in Section 20 following.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(B) Conditioning (Cont'd)

(4) Type DA (USOC - XDCPT)

Type DA conditioning of Voiceband facilities provides a facility with the following transmission parameter enhanced to meet the values specified for Type DA conditioning in Technical Reference TR-TSY-000335, in addition to the standard parameters for voiceband circuits.

- (1) Signal to C-notched noise ratio.
- (2) Nonlinear signal to second order distortion.
- (3) Nonlinear signal to third order distortion.

(C) Improved Return Loss (USOC-1RL)

- (1) On Effective Four-Wire (4) Transmission at Four-Wire (4) Point of Termination (applicable to each two-wire (2) port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in Section 20 following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(C) Improved Return Loss (USOC-1RL) (Cont'd)

- (2) On Effective Two-Wire (2) Transmission at Two-Wire (2) Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire (4) at one POT and two-wire (2) at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire (2) POT. The Improved Return Loss parameters are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in Section 20 following.

(D) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in Section 20 following.

The following network channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR, and TF.

The following network channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV, and SF. The signaling capability charge will not apply when used in the provision of WATS access service.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(E) Four-Wire (4)/Two-Wire (2) Conversions

When a customer requests that an effective four-wire (4) channel be terminated with a two-wire (2) channel interface at the customer designated premises, a four-wire (4) to two-wire (2) conversion is required. The customer will be charged the four-wire (4) Channel Termination rate as set forth in Section 20 following when an effective four-wire (4) is specified in the order for service. The rate for the conversion is included as part of the basic four-wire (4) Channel Termination rate.

(F) Improved Two-Wire (2) Voice Transmission

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0dB to +4.0dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0dB to + 6.0 dB.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(F) Improved Two-Wire (2) Voice Transmission (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

| <u>Route Miles</u> | <u>C-Message Noise</u> |
|--------------------|------------------------|
| Less than 50 | 35 dBrnc0 |
| 51 to 100 | 37 dBrnc0 |
| 101 to 200 | 40 dBrnc0 |
| 201 to 400 | 43 dBrnc0 |
| 401 to 1000 | 45 dBrnc0 |

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

| | |
|-----|--------|
| ERL | 13.0dB |
| SRL | 6.0 dB |

The rate for the provision of Improved Two-Wire (2) Voice Transmission is included as part of the basic Channel Termination rate.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Voice Grade Service (Cont'd)

7.4.3 Optional Features and Functions (Cont'd)

(G) Improved Termination Option (USOC-X4T)

Improved Termination provides for a fixed 600 ohm impedance, an increased range of transmission levels, and simplex reversal (when applicable) on an effective four-wire channel. This optional feature is available with most Voiceband services with a four-wire point of termination. Telephone Company equipment is required at the customer's premises where this option is ordered.

The Improved Termination option will be ordered and rates and charges, as set forth in Section 20 following, will apply on a per SAL basis. Technical parameters and the applicable Voiceband services are specified in Technical Reference TR-TSY-000335.

7.5 Program Audio Service

Facilities to be used in connection with broadcast audio services must be ordered from Citizens Tariff FCC #1.

7.6 Video Service

Facilities to be used in connection with broadcast video service must be ordered from Citizens Tariff FCC #1.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.7.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire (4) transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 38.4, 56 or 64 Kbps where facilities are available. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer will provide the Channel Service Unit/Data Service Unit equipment associated with the Digital Data channel at the customer premises.

Rates and charges for Special Access Digital Data Service are as set forth in Section 20 following.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.7.2 Technical Specifications Packages and Network Channel Interfaces

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Technical Specifications Packages are set forth in 7.4.2. Compatible Channel Interfaces are set forth in Section 11.3 following.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB TR-NPL-000341.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.7.2 Technical Specifications Packages and Network Channel Interfaces (Cont'd)

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data Channel:

| <u>NCI</u> | <u>Bit Rate</u> |
|------------|-----------------|
| DU-24 | 02.4 Kbps |
| DU-48 | 04.8 Kbps |
| DU-96 | 09.6 Kbps |
| DU-19 | 19.2 Kbps |
| DU-38 | 38.4 Kbps |
| DU-56 | 56.0 Kbps |
| DU-64 | 64.0 Kbps |

7.7.3 Optional Features and Functions

The Optional Features and Functions described in (A) following are only available where Digital Data Service is provided via a hub.

(A) Bridging

Digital data bridging is available on an individual case basis only.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.73 Optional Features and Functions (Cont'd)

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access circuit(s) on a 1 x N basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working circuit that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare circuit, if required, is not included as a part of the option.

(C) Digital Data Carrier Multiplexer

An arrangement that multiplexed a single DS1 1.544 Mbps digital circuit to twenty-three DSO digital ports for connection to either a subrate data multiplexer as described in (D) following or 56 Kbps digital circuits.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.73 Optional Features and Functions (Cont'd)

(D) Digital Data Subrate Multiplexer

Used with cascading multiplexing, the Digital Data Subrate Multiplexer is an arrangement that multiplexes the following quantities of subrate digital data circuits into a single DSO digital port: 1) twenty 2.4 Kbps, 2) ten 4.8 Kbps or 3) five 9.6 Kbps. In turn, the DSO digital port is then multiplexed to a single DS1 digital circuit using the Digital Data Carrier Multiplexer described in (C) preceding.

(E) Digital Data Service Secondary Channel

Secondary Channel is an optional feature associated with a primary Digital Data Service channel(s). This offering will be provided with the new installation of Digital Data Service only, and must be ordered at the same time the primary channel(s) is ordered.

Secondary Channel describes a second, totally independent, lower speed channel operating in parallel with the primary channel of a Digital Data Access Service circuit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.7.3 Optional Features and Functions (Cont'd)

(E) Digital Data Service Secondary Channel (Cont'd)

The types of secondary channels offered to provide for the simultaneous, independent two-way transmission of digital signals between two or more customer premises each having Secondary Channels are as follows:

Secondary Channel furnished for digital transmission at a synchronous rate of 133 bps, operating in parallel with a primary 2.4 kbps (DA1) channel (per station).

Secondary Channel furnished for digital transmission at a synchronous rate of 266 bps, operating in parallel with a primary 4.8 kbps (DA2) channel (per station).

Secondary Channel furnished for digital transmission at a synchronous rate of 533 bps, operating in parallel with a primary 9.6 kbps (DA3) channel (per station).

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Digital Data Service

7.7.3 Optional Features and Functions (Cont'd)

(E) Digital Data Service Secondary Channel (Cont'd)

Secondary Channel furnished for digital transmission at a synchronous rate of 2,666 bps, operating in parallel with a primary 56 kbps (DA4) channel (per station).

7.8 High Capacity Service

This service is categorized as Imperfectly Competitive and receives Promotional and Flexible Pricing Treatment as specified in Section 20 of this tariff.

7.8.1 Basic Channel Description

A High Capacity circuit is a circuit for the transmission of nominal 64.0 kbps* or 1.544,3.152, 6.312,44.736, 89.472, or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

* A 64.0 Kbps is available as a channel of a 1.544 Mbps channel to a Telephone Company hub.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.1 Basic Channel Description (Cont'd)

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity circuit at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

Rates and charges for Special Access High Capacity Service are set forth in Section 20 following.

7.8.2 Technical Specifications Packages and Network Channel Interfaces

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous twenty-four (24) hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designated, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity circuit:

| <u>CI</u> | <u>Bit Rate</u> |
|-----------|--------------------|
| DS-15* | 1.544 Mbps(DS1) |
| DS-27 | 274.176 Mbps (DS4) |
| DS-31 | 3.152 Mbps (DS1C) |
| DS-44 | 44.736 Mbps (DS3) |
| DS-63 | 6.312 Mbps (DS2) |
| DS-89 | 89.472 Mbps (DS3C) |

Compatible channel interfaces are set forth in Section 11.3 following.

* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.4 Optional Features and Functions

(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1 x N basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises.

(B) DS4 to DS1

An arrangement that converts a 274.176 Mbps circuit to 168 DS1 circuits using digital time division multiplexing.

(C) DS3C to DS1

An arrangement that multiplexed fifty-six DS1 digital circuits to a single DS3C digital circuit at a rate of 89.472 Mbps, or multiplexed a single DS3C digital circuit at a rate of 89.472 Mbps to fifty-six DS1 digital circuits.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.4 Optional Features and Functions (Cont'd)

(D) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(E) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four (4) DS1 channels using digital time division multiplexing.

(F) DS1C to DS1

An arrangement that converts a 3.152 Mbps circuit to two DS1 circuits using digital time division multiplexing.

(G) DS1C to Voice

An arrangement that multiplexed forty-eight voice grade circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to forty-eight voice grade circuits.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.4 Optional Features and Functions (Cont'd)

(H) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(I) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

(J) DS0 to Subrate

Where facilities are available, the telephone company will provide an arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty (20) 2.4 Kbps, ten (10) 4.8 Kbps, or five (5) 9.6 Kbps channels using digital time division multiplexing.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.4 Optional Features and Functions (Cont'd)

(K) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access circuit(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working circuit that terminates in either the same or a different customer designated premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare circuit, if required, is not included as part of the option.

(L) Clear Channel Capability (CCC)

CCC provides a Bipolar with Eight Zero Substitution (B8ZS) encoding technique that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity Channel with no restraint on the quantity or sequence of one (mark) and zero (space) bits. This arrangement allows customers to derive 64 kbps clear channels. This service is provided only on 1.544 Mbps High Capacity Channels between two customer designated premises and is subject to

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.4 Optional Features and Functions (Cont'd)

(L) Clear Channel Capability (CCC) (Cont'd)

availability of facilities. This arrangement requires the customer-provided multiplexing equipment to be compatible with the B8ZS line code as specified in Technical Reference TR-NPL-000054 and Technical Reference PUB TR-NPL-000342.

(M) Automatic Protection Switch

Consists of special switching equipment placed at both ends of a duplicate DS1 facility (i.e., DS1, High Capacity Circuit) for automatic switching to the duplicate (standby) facility in the event the active facility is inoperative.

Duplicate facilities may terminate at a serving wire center, a CDP or both. The option provided under this tariff only includes the APS(s) located at a serving wire center(s). When the duplicate facility terminates at a CDP, the customer will be responsible for providing the associated APS and ensuring it is compatible with the Telephone Company provided switch if appropriate.

Continued

ACCESS SERVICE

.7. Special Access Service (Cont'd)

7.8 High Capacity Service (Cont'd)

7.8.4 Optional Features and Functions (Cont'd)

(M) Automatic Protection Switch (Cont'd)

The duplicate facilities are not a part of this supplemental feature.

7.9 Individual Case Filings

Certain services set forth in Special Access Service, Section 7 are provided on an Individual Case Basis. Services provided on an Individual Case Basis are set forth in Section 20 following.

7.10 Description of Multiplexing Arrangements

Multiplexing Arrangements provide the function to convert a single higher capacity or bandwidth circuit for bulk transport to several lower capacity or bandwidth circuits. Cascading multiplexing occurs when a high capacity analog or digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS1C may be de-multiplexed to two DS1 facilities and then the DS1 facilities may be further de-multiplexed to 24 Voiceband channels.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 Description of Multiplexing Arrangements (Cont'd)

When cascading multiplexing is performed in the same or different Hub Wire Center, a charge for the additional multiplexing unit will also apply. When cascading multiplexing is performed at a different Hub Wire Center, Special Transport will also apply between the involved Hub Wire Centers.

Listed below are the multiplexing arrangements offered under this tariff.

(A) DS1 to Voice (USOC - MQ1)

An arrangement that multiplexes twenty-four voice grade circuits to a single DS1 digital circuit at a rate of 1.544 Mbps, or multiplexes a single DS1 digital circuit at a rate of 1.544 Mbps to twenty-four voice grade circuits.

(B) DS1C to Voice (USOC - MQH++)

An arrangement that multiplexes forty-eight voice grade circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to forty-eight voice grade circuits.

(C) DS1C to DS1 (USOC - MXH++)

An arrangement that multiplexes two DS1 digital circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to two DS1 digital circuits.

(D) (Reserved for Future Use)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 Description of Multiplexing Arrangements (Cont'd)

(E) DS3 to DS1 (USOC - MSB++)

An arrangement that multiplexes twenty-eight DS1 digital circuits to a single DS3 digital circuit at a rate of 44.736 Mbps, or multiplexes a single DS3 digital circuit at a rate of 44.736 Mbps to twenty-eight DS2 digital circuits.

(F) DS3C to DS1 (USOC - MQT++)

An arrangement that multiplexes fifty-six DS1 digital circuits to a single DS3C digital circuit at a rate of 89.472

(G) Digital Data Carrier Multiplexer (USOC - QMU)

An arrangement that multiplexes twenty-three 64 kbps digital circuits for connection to either subrate data multiplexers or 56 kbps office channel units as described in 7.6.3 (C) preceding, to a single DS1 1.544 Mbps digital circuit. This arrangement consists of a charge for the basic multiplexer and a charge for each 64 kbps digital circuit equipped and connected.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 Description of Multiplexing Arrangements (Cont'd)

(H) Digital Data Subrate Multiplexer (USOC - QSU++)

Used with cascading multiplexing, the Digital Data Subrate Multiplexer is an arrangement that multiplexes the following quantities of subrate digital data circuits into a single 64 kbps digital circuit: 1) twenty 2.4 kbps, 2) ten 4.8 kbps or 3) five 9.6 kbps. In turn, the 64 kbps digital circuits then multiplexed to a single DS1 digital circuit using the Digital Data Carrier Multiplexer described in 7.8.4(G) preceding.

7.11 DS1 Optional Payment Plan (OPP)

(A) Description

A customer may elect to participate in an Optional Payment Plan (OPP) for DS1 (1.544 Mbps) service. The OPP allows a customer to order the "First System" DS1 Special Access Line (SAL) rate element over a three or five year payment period at rates set forth in 20.1.5. The OPP applies to the "First System" DS1 SAL rate element ordered between a CDL and its serving wire center or hub wire center. The Telephone Company will not initiate increases to "First System" DS1 OPP rates.

During an OPP, when the same customer orders "Additional System" DS1 SALs, the standard non-recurring and monthly rates, as set forth in 20.1.5 apply.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plan (OPP) (Cont'd)

(A) Description (Cont'd)

When the customer orders a "First System" OPP DS1 SAL at a CDL, the same customer can then order "Additional System" DS1 SALs at the same CDL at any time and without regard to the opposing end of the circuit. The customer will be rated a "First System" OPP DS1 SAL at a CDL and the same customer an "Additional System" DS1 SAL rate for any subsequent SAL at the same CDL even if the terminating points of the DS1 circuits are different.

When ordering "Additional System" DS1 SALs, the customer will be required to provide remarks on the ASR necessary for the Telephone Company to complete the order. The ASR must specify the same customer's "First System" DS1 OPP circuit identification (ECCKT) and access service group (ASG) at each CDL in order for the "Additional System" DS1 SAL rate to apply. Under an OPP only, each two-point DS1 circuit can be rated on a per SAL "First or Additional System" basis. All other associated rate elements or additional features are subject to the standard tariffed rates and regulations.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plan (OPP) (Cont'd)

(B) OPP Payment Periods

- (1) (RESERVED)
- (2) The three year payment period provides a customer with a discounted tariff rate at ten percent (10%) below the standard monthly "First System" DS1 SAL tariff rate as specified in Section 20.1.5.
- (3) The five year payment period provides a customer with a discounted tariff rate at twenty percent (20%) below the standard monthly "First System" DS1 SAL tariff rate as specified in Section 20.1.5.
- (4) The customer must specify the payment period at the time the service is ordered.
- (5) During the payment period, any decrease in the standard monthly recurring "First System" DS1 SAL tariff rate will automatically be discounted by the appropriate percentage and flowed through to the OPP recurring rate as specified in Section 20.1.5.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plann (OPP) (Cont'd)

(B) OPP Payment Periods (Cont'd)

- (6) When the customer orders a move as specified in Section 5, the customer will be able to keep the same OPP payment period in force.

(C) Conversions

- (1) For conversion of an existing standard DS1 service to an OPP of choice, the Customer will be required to submit a discontinuance of service ASR and establishment of new service ASR. Such changes will provide continuous provisioning and billing of the special access service to the same customer. If no other changes to the service are ordered, only the Initial Ordering Charge - Special Access will apply for the conversion.
- (2) During an OPP period, the customer may elect to convert to a new OPP period of the same or different length. Conversion to a new OPP period will be allowed without penalty or application of nonrecurring charges if the expiration date of the new OPP period is greater than the remainder of the original OPP period.
- (3) When a customer converts to an OPP, the monthly rates will be set forth in Section 20.1.5.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plan (OPP) (Cont'd)

(C) Conversion (Cont'd)

- (4) Should that customer convert an "Additional System" DS1 SAL existing under an OPP arrangement, to a "First System" OPP DS1 SAL to meet the requirements specified in (A), the following ordering requirements will apply:
- The Subsequent Ordering Charge - Special Access will apply only if the conversion is to the same OPP payment period and remains connected at the same CDL as the previous OPP DS1 SAL. A new payment period will commence with the conversion.
 - A discontinuance of service ASR and establishment of new service ASR will be required for the conversion, should the customer choose a different OPP payment period at the same CDL as the previous OPP DS1 SAL. A new payment plan will commence with the conversion.

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plan (OPP) (Cont'd)

(D) Expiration of OPP

At the expiration of an OPP payment period, the Telephone Company will automatically renew the customer at the same OPP payment period unless the customer chooses to discontinue, converts to a different OPP or converts to month-to-month standard tariff rates.

Should the customer choose to convert to month-to-month standard tariff rates, existing "Additional System" DS1 SALs under the OPP must also be converted to comply with the standard arrangements rules and regulations specified in Section 7.2.3 preceding. The customer will be required to submit a discontinuance of service ASR and establishment of new service ASR for the conversion. If no other changes are ordered, only the Initial Ordering Charge - Special Access will apply. The ordering and installation of further "Additional System" DS1 SALs will also convert to the standard arrangements.

(E) Early Termination Liability

When a "First System" DS1 SAL is discontinued prior to the end of the payment period, two levels of termination liability may apply based on the remainder of the OPP payment period in effect at the time of disconnect as indicated below.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plan (OPP) (Cont'd)

(E) Early Termination Liability (Cont'd)

Three Year OPP: 100% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third year, the customer will be liable for 10% of the total monthly charges in that time period.

Five Year OPP: 100% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth year, the customer will be liable for 20% of the total monthly charges in that time period.

(F) Early Termination Without Liability

During the OPP payment period, should the recurring charge for a customer's "First System" DS1 SAL increase from the original recurring charge of the customer's current OPP, the customer may, at their option, terminate the service without penalty or liability.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 DS1 Optional Payment Plan (OPP) (Cont'd)

(G) Notification of Discontinuance

Notice of discontinuance must be given by the customer at least thirty (30) days prior to actual discontinuance. Monthly charges will apply for a period of thirty (30) days from the date the Telephone Company receives discontinuance notification, or until the requested discontinuance date, whichever period is longer.

(H) Update to Higher Speed Service Without Liability

Should the customer elect to upgrade services to a higher capacity or speed (e.g. DS3) during the OPP period, the termination liabilities as specified in Paragraph (E) will not apply as long as the upgraded service remains connected at the same point of termination(s). If the higher capacity service multiplexing hub wire center is different than one of the serving (hub) wire centers associated with the customer designated location (CDL) or the DS1 hub wire center, the termination liability charge will apply.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services

8.1 General

This section covers Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security. In addition, this section covers the Telecommunications Service Priority (TSP) System service and procedures as set forth in 8.8 since it is administered by the Federal Government.

Services for command and control communications and for national security and emergency preparedness may sometimes be provided under non-emergency conditions for a short duration to determine network assurance. However, the Telephone Company reserves the right to limit or to decline participation in these non-emergency condition requests for service.

8.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.2 Emergency Conditions (Cont'd)

- (A) State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").
- (B) Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)
- (C) Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.
- (D) The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.
- (E) Political unrest in foreign countries which affect the national interest.
- (F) Presidential service.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.3 Intervals to Provide Service

Services provided under the provisions of this section of the tariff are provided on an individual case basis. Therefore, orders for such service shall be placed under the Negotiated Interval provisions set forth in Section 5.1.2 preceding.

8.4 Safeguarding of Service

8.4.1 Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service as set forth in 8.8 following.

In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

8.5 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their services to the Federal Government.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Mileage Application

Mileage, when used for rate application between two (2) customer designated premises, shall be determined by the V and H Coordinates Method as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF FCC NO. 4 for WIRE CENTER INFORMATION (V and H coordinates).

8.7 Move Charges

When service without a termination charge associated with it, is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.

When service with a termination charge associated with it, is moved and is reinstalled at a new location, the customer may elect:

- to pay the unexpired portion of the termination charge for the service, if any, with the application of nonrecurring charge and the establishment of a new termination charge for such service at the new location, or
- to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.7 Move Charges (Cont'd)

Move charges include the estimated costs of removal, of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

8.8 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

8.8.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point (2) secure communications on two-wire (2) or four-wire (4) metallic facilities between two (2) customer premises. Services are conditioned as follows:

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type I (Cont'd)

T-3 Conditioning - The absolute loss (referenced to one (1) milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz
13 dB at 100 Hz
09 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB 50,000 Hz

Additional conditioning (available in one (1) or two (2) directions on four-wire (4) facilities only) to provide the following characteristics:

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type I (Cont'd)

The absolute loss (referenced to one (1) milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz
+ 1 dB between 1,000 Hz and 40,000 Hz
+ 2 dB between 10 Hz and 50,000 Hz
(+ means more loss)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four (4) dB at 1,000 Hz from the levels specified above.

Voice frequency signaling or supervisory tones can be transmitted.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire (4) metallic facilities for duplex operation for two-point secure communications between an IC premises on an end user's premises and an end user's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire (4) metallic facilities for duplex operation for two-point secure communications between a customer premises switch and a customer's premises. Services are conditioned as follows:

G-2 conditioning - The absolute loss with respect to frequency and the net loss variation from the switch to an end user's premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from an end user's premises to the switch shall be the same as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire (4) metallic facilities for duplex operation for two-point secure communications between two (2) customer premises switches. Services are conditioned as follows:

G-3 conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of the transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(B) Wideband Data Special Access Services

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum of signal element width of twenty (20) microseconds at a rate of 50,000 bits per second.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(B) Wideband Data Special Access Services (Cont'd)

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

(C) Special Routing Access Service

Special Routing Access Service is a specialized service for use by carriers authorized to provide their service for an agency or branch of the Federal Government. This service provides the customer's end users the ability to originate and terminate calls to or from the customer's premises.

This service is an optional service which operates in conjunction with Trunk Side Premium Access Service furnished under other provisions of this tariff.

The Telephone Company will manually record Special Routing Access Service Active Mode Trunk Usage, and will bill the customer in accordance with these records.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(C) Special Routing Access Service (Cont'd)

The hours for each trunk ordered will be summed and then rounded to the nearest half hour, except that when the initial activation total is less than one (1) hour, one (1) hour will be used to determine the charge.

(D) Telecommunications Service Priority (TSP) System

- (1) Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.

In addition, TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCSH 3-1-2) dated July 9, 1990, and "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual" (NCSM 3-1-1).

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(D) Telecommunications Service Priority (TSP) System (Cont'd)

(1) (Cont'd)

The TSP System is a service, developed to meet the requirements of the Federal Government, as specified in the Service Vendor's Handbook and Service User's Manual which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

(2) The TSP System's applicability is limited to Access Services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(D) Telecommunications Service Priority (TSP) System (Cont'd)

- (3) Some of the elements required for the TSP System are included in other sections of this tariff as general service offerings. They have been referenced in this section to reflect the complete TSP System with appropriate references to those other sections of the tariff for regulations, rates and charges.
- (4) The customer for TSP System Service also must be the same customer for the Access Service with which it is associated.
- (5) Under certain conditions it may be necessary to interrupt one (1) or more customer services with a lower or no restoration priority in order to install or restore NSEP telecommunications service(s) of a higher priority. If such interruption is necessary, and if circumstances permit, the Telephone Company will make reasonable effort to notify the interrupted service customer of the action to be taken. Credit allowance for such service interruption shall be made in accordance with the provisions set forth in Section 2.4.3.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(D) Telecommunications Service Priority (TSP) System (Cont'd)

- (6) The customer, in obtaining TSP System service, acknowledges and consents to the provision of certain customer service record information by the Telephone Company to the Federal Government, as specified in the TSP Service Vendor Handbook, in order for the Government to maintain and administer its overall TSP System. This customer service record information will include only TSP Authorization Code and Telephone Company Circuit/Service ID.
- (7) When priority Restoration Maintenance and Administration, as defined in the TSP Service Vendor Handbook, is discontinued (Revocation of Assigned Restoration Priority), and the associated Access Service is continued in service, the charge specified in Section 20 will not apply for such a discontinuance.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(D) Telecommunications Service Priority (TSP) System (Cont'd)

- (8) Credit allowance for service interruption for Priority Restoration Maintenance and Administration shall be the same as for the Access Service with which it is associated as set forth in Section 2.4.3 preceding.
- (9) Certain activities performed by the Telephone Company in association with the TSP System are as follows:
 - (a) Priority Installation Invocation includes System Development, Verification, Confirmation and Preemption.
 - (b) Priority Restoration Level Implementation includes System Development, Verification and Confirmation.
 - (c) Priority Restoration Level Change includes Verification and Confirmation.

Continued

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.8 Service Offerings to the Federal Government (Cont'd)

8.8.1 Type and Description (Cont'd)

(D) Telecommunications Service Priority (TSP) System (Cont'd)

(9) (Cont'd)

(d) Priority Restoration Maintenance and Administration includes Reconciliation and Preemption.

(10) The customer, in obtaining a Priority Restoration, recognizes that quoting charges and obtaining permission to proceed with the installation or restoration of certain access services will cause unnecessary delays. In subscribing to Priority Restoration service the customer recognizes this condition and grants the Telephone Company the right to quote charges after the restoration has been completed.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services

9.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer or when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer's request.

Additional Engineering is provided when:

- (A) A customer requests additional technical information beyond that normally included by the Telephone Company on the Design Layout Report (DLR) as set forth in Section 6.5.7 and Section 7.1.8.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's specific written request for a customized service or additional engineering activities which are not normally performed in the provision of services under this tariff.

The Telephone Company will notify the customer that Additional Engineering charges, as set forth in 9.1.1 following, will apply before any additional engineering is undertaken. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.1 Additional Engineering (Cont'd)

9.1.1 Charges for Additional Engineering

(B) (Cont'd)

Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of the Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%. The charges for additional engineering are shown as in Section 20.

9.2 Additional Labor

Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company. The Telephone Company will notify the customer that additional labor charges will apply before any additional labor is undertaken. Additional labor charges apply to the services described in 9.2.1 through 9.2.6.

Normally scheduled working hours are an employee's scheduled work period on any given business day which totals eight (8) hours.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.2 Additional Labor (Cont'd)

9.2.1 Overtime Installation (USOC-ALH)

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

9.2.2 Overtime Repair (USOC-ALH)

Overtime repair is that Telephone Company maintenance effort performed outside of normally scheduled working hours.

9.2.3 Stand By (USOC-ALT)

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer.

9.2.4 Testing and Maintenance with Other Telephone Companies
(USOC-ALK)

Additional labor charges apply for additional testing, maintenance or repair of facilities which connect to facilities of other telephone companies. This is in addition to the normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.2 Additional Labor (Cont'd)

9.2.5 Testing Services

Testing services other than those described in other parts of this tariff will be provided at the hourly rates described if requested by the customer. Testing will be provided subject to the availability of equipment and qualified personnel.

9.2.6 Other Labor (USOC-ALK)

Other labor is that additional labor incurred to accommodate a specific customer request that involves labor which is not covered by any other section of this tariff. It also covers additional labor necessary to meet customer requests as described in Section 5.2.6.

9.2.7 Charges for Additional Labor

The charges for additional labor are shown in Section 20.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services

9.3.1 Maintenance of Service

- (A) The customer will be responsible for reporting troubles sectionalized to Telephone Company facilities and/or equipment. When trouble cannot be clearly sectionalized to the Telephone Company facilities and/or equipment, the Telephone Company will test cooperatively or independently to assist in trouble sectionalization.

When a customer reports trouble to the Telephone company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when the Telephone Company personnel are dispatched to the customer's or customer's end user premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer's premises, and the trouble is in equipment or

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.1 Maintenance of Service (Cont'd)

(B) (Cont'd)

communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

(C) The charge for Maintenance of Service is as follows:

| <u>Maintenance of Service</u> <u>Periods</u> | <u>USOC</u> | <u>Per Technician</u> |
|---|---|-----------------------------------|
| Per occurrence | MVV | The charges for Maintenance of |
| | Service are the same as those set for Additional Labor as set forth in 9.2 preceding. | |

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.2 Programming Services

- (A) Programming charges apply when a request by a customer for information concerning the access services provided to the customer results in the creation of new computer software or the modification of existing software in order to provide the requested information.

The Telephone Company will notify the customer that additional programming charges will apply before any additional programming is undertaken.

- (B) The charges for Programming Service are shown in Section 20.

9.3.3 Presubscription

Presubscription is a procedure whereby an end user[#] may select and designate to the Telephone Company an Interexchange Carrier (IC) to access, without dialing an access code, for intraLATA and interLATA intrastate calls. The end user may select one (1) IC for both intraLATA and interLATA calls or they may select one (1) IC for their interLATA calls and a different IC or the Telephone Company for IntraLATA calls. The selected ICs are referred to as the end user's primary ICs. The presubscription procedure also allows the agent* representing a pay telephone to select and designate to the Telephone Company ICs to access, without dialing an access code, for intraLATA and interLATA intrastate calls. Presubscription is available only to End Users served by end offices that have been converted to provide Feature Group D Switched Access Service.

InterLATA presubscription of residence and business lines and /or trunks is furnished in accordance with the detailed provisions of the Federal Communications Commission's Allocation Plan. The plan with all appendices is available for inspection at the main building of the Federal Communications Commission in the Public Reference Room of the Tariff Division. Copies may be obtained from the Federal Communications Commission's Commercial Contractor.

#For purposes of this section, the term end user also includes Alternative local exchange carriers (ALECs) that are certified to resell local exchange telecommunications service.

*An agent is the person or persons who have the legal authority to give permission to for the placement of pay telephone on their premises and who control access to or usage of the pay telephone

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

IntraLATA presubscription of residence and business lines and/or trunks is furnished in accordance with Tennessee Regulatory Authority Order in Docket No. 96-01235.

The same detailed provisions also apply to pay telephone presubscription for end offices converting to equal access after February 10, 1990. Pay telephone presubscription for end offices converted to equal access prior to February 10, 1990, will follow a transition schedule. After that date, pay telephone lines will be included in the standard presubscription time line for the end office.

Should a customer want to use other services of the same or another IC, it will be necessary for the customer to dial the necessary access code(s) (i.e., 10XXX) to reach that IC's service(s)

Principal provisions of the Allocation Plans and associated Telephone Company provisions are as follows:

(A) End User and Agent Notification, Equal Access Process and Interexchange Carrier End User and Agent Lists.

An end user or agent must select only one IC as a primary IC. Multi-line hunt group end users or agents have two options in selecting a primary IC. Under option one, an end user or agent may select one IC for all its lines. Under option two, an end user or agent may indicate a desire to designate specific lines to different ICs. When option two is selected, the end user or agent must give notice to the Telephone Company, which will allow a line-by-line designation of ICs.

An IC obtaining service commitments from end users and agents directly must provide an IC End User and Agents List to the Telephone Company accompanied by a document certifying that the IC does have end user and agent signed statements, or has taken steps to obtain signed letters of agency, containing the required information from each end user and agent on the list. The Telephone Company will process all End User and Agent list that are received 20 days prior to conversion of an end office to equal access. This choice is considered a valid selection and the nonrecurring charge as set forth in Section 20.1.7 or 20.2.7 following will apply to any subsequent change made after the equal access conversion date.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(A) End User/Agent Notification and the Equal Access Selection Process and Interexchange Carrier End User and agents Lists (Cont'd)

Customers obtaining service from the Telephone Company on or after the date of intraLATA equal access conversion who do not make an affirmative selection, will have no "1"+ capability until they make a selection.

(B) End User Choice Discrepancy

When a discrepancy is determined regarding an end user's or an agent's designation of a primary IC, the following applies depending upon the situation described:

- (1) When an end user or agent indicates more than one IC choice per line on a request, the Telephone Company will contact the end user or agent for clarification.
- (2) When the Telephone company identifies a conflict between lists submitted by two or more ICs, the Telephone Company will notify, within 10 days, all affected ICs via a conflict report.

In addition, the Telephone Company may either contact the end user or agent directly or request certification from the affected ICs that they have a signed letter of agency of file. The IC whose letter of agency bears the latest authorization date shall become the end user's or agent's primary IC.

(C) Presubscription Charge Application

The Telephone Company will provide an initial waiver period of 120 days from implementation of intraLATA toll dialing parity for existing end users to select their primary IntraLATA IC. This waiver period will expire on December 5, 1997, based on a August 8, 1997 Implementation date of IntraLATA Toll Dialing Parity.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(C) Presubscription Charge Application (Cont'd)

New end users or agents, who will be served by end offices equipped with equal access, will be asked to select a primary IC for both intraLATA and interLATA calls or select one (1) IC for their interLATA calls at the time they place an order with the Telephone Company for Telephone Exchange Service.

For the interLATA selection, a confirming notice will be mailed to the new end user or agent when an IC is verbally chosen. New end users who return confirmation notices within 30 days identifying an interLATA IC different from that given verbally will have such selection processed without charge.

New end users or agents will be offered a list of participating carriers to aid in their selection of a primary interLATA and intraLATA ICs. There will be no charge for these initial selections.

After the end user's or agent's initial primary IC selection, for any change thereafter, a charge, as set forth in Section 20.1.7 or 20.2.7 following applies.

End users may designate that they do not want a primary interLATA or intraLATA IC and this choice is referred to as "No-PIC". This choice is considered a valid selection and a Presubscription Charge will apply to any subsequent change. The "No-PIC" designation is not available to pay telephone agents.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(C) Presubscription Charge Application (Cont'd)

Should an IC elect to discontinue Feature Group D service in an end office converting to equal access prior to the conversion date, or within two years after the introduction of Feature Group D in the converted end office, the IC shall contact in writing all end users and agents who selected, or were allocated to, the canceling IC as their designated IC. Such written notification must advise these end users or agents of the cancellation, request that the end users or agents select a new IC, and state that the canceling IC will pay the change charge.

For a period of two years following the IC's discontinuance of Feature Group D service, the Telephone Company will bill the canceling IC the change charge for each end user and agent that is currently designated to the IC at the time of discontinuance.

The Telephone Company will make conversion changes in the end user's or agents interLATA and intraLATA PIC assignments pursuant to an IC provided list of customers, accepted by the Telephone Company under the conditions set forth in (A) preceding. Should an end user or agent dispute authorization of the change in PIC assignments, the Telephone Company may, in order to resolve the dispute, require that the IC requesting the change submit a signed letter of agency. If the IC cannot produce a customer signed letter of agency from the end user or agent, and the Telephone Company resolves the dispute in favor of the end user or agent, the IC will be billed two nonrecurring charges: a presubscription change charge as set forth in Section 20.1.7 or Section 20.2.7 following for the change to the disputed IC and an unauthorized presubscription change charge as specified in Section 20.1.7 or Section 20.2.7 following to restore the end user's or agent's prior IC assignment. If the IC produces the required letter of agency within 30 days of the Telephone Company's request, the end user or agent will be billed two presubscription change charges as specified in Section 20.1.7 or Section 20.2.7 following in lieu of the IC. Charges are only applicable if a change in an end user's or agent's IC selection has actually been implemented in the switch.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(D) The nonrecurring charge for a change in Presubscription rates can be found in section 20.1 and 20.2.is as follows:

(RESERVED)

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(E) IC CIC Consolidation

IC requests to consolidate multiple CICs (Carrier Identification Codes) will be subject to an IC CIC Consolidation Charge. This charge is only assessed when all lines or trunks associated with the former CIC(s) are changed on a one-time realignment basis within the Telephone Company's databases at a nationwide level to a single existing CIC. Requests for an IC CIC Consolidation must be provided to the Telephone Company in writing, but no ASR Ordering Charge is applicable for this request.

The IC CIC Consolidation charge does not apply to normal PIC change activity, whereby carrier selection is changed and no consolidation of CICs occurs.

The Telephone Company will negotiate a due date for an IC CIC Consolidation with the IC. It is the sole responsibility of the IC to notify affected end users of the change.

If an IC elects to change a CIC due to surrendering a CIC to the North American Numbering Plan (NANP) Administrator for reassignment, the IC CIC Consolidation Charge will be waived. The waiver is applied only when the IC surrenders the CIC on a nationwide basis. Additionally, the CIC must be relinquished within ninety (90) days from the completed conversion date. Confirmation of relinquished code(s) must be in writing and come from the NANP Administrator.

(F) Liability of the Telephone Company

If through the fault of the Telephone Company, the end user or agent is not subscribed to its chosen PIC, the nonrecurring charges in Section 20 do not apply to reassign the end user or agent to his chosen PIC.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(G) IC Desired Due Date (ICDDD) for PIC Installation

An IC may request a desired due date for PIC installation for a specific, single end user or agent acting on behalf of an end user post equal access conversion. This ICDDD is a mutually agreed upon negotiated due date, determined to be between 3 and 45 business days from the date of receipt of the order. The IC must coordinate the ICDDD with the Telephone Company prior to sending in the first order.

The ICDDD does not apply to routine lists provided by the IC, as set forth in 9.3.3 (A). The Nonrecurring Charge for Primary Interexchange Carrier, as set forth in Section 20.1.7 or Section 20.2.7 following applies to each line converted to the IC requesting ICDDD. This charge will be billed to the IC's end user customer.

(H) End User/Agent Lists

(1) Presubscription List

Prior to conversion to equal access (i.e., introduction of FGD in an end office switch) an IC may request a list of the Telephone Company's end users and agents of record served from that end office switch. The Presubscription List will be provided as follows:

- (a) The Telephone Company will provide a list from its customer data base. The list may be provided on magnetic tape, electronic transmission, or paper printout, at the option of the IC, at rates provided in Section 20.1.7 or Section 20.2.7. Foreign listings, PBX stations, CU Centrex stations and numbers not in service will not be provided.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(H) End User/Agent Lists (Cont'd)

(1) Presubscription List (Cont'd)

- (i) The initial list will be provided to the IC no later than 30 days after receipt of the order and payment by the IC of charges in Section 20. The nonrecurring charge for the initial list applies per state, per order. A single order may contain all end offices within a state having the same equal access conversion date. The telephone number will not be provided if an end user or agent has a nonpublished number.
- (ii) The Account Activity List, which includes a listing of all changes to the customer data base, since the initial list was produced, will be provided on a cyclic basis. The Account Activity List will only include information for those end users and agents that are presubscribed to the IC (including end users and agents with nonpublished numbers) for the sole purpose of updating the IC's customer account information. There is no charge for this list.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(H) End User/Agent Lists (Cont'd)

(1) Presubscription List (Cont'd)

- (b) The IC agrees to use the Initial and Account Activity Lists for the sole purpose of either contacting potential customers/agents, or existing customers/agents, regarding interexchange telecommunications services available through equal access to be obtained from the Telephone Company or for the purpose of updating IC customer/agent account information. The IC agrees not to sell, or reproduce in any manner, in whole or in part, the lists or permit such to be done.
- (c) The IC shall indemnify, protect and save harmless the Telephone Company from and against any and all loss, liability, damages and expense arising out of any demand, claim, suit or judgment for damages which may arise out of the Telephone Company's supplying of listing information, services or records.
- (d) The Telephone Company and the IC agree that the mutual objective of the parties is to conduct their respective businesses to avoid confusion by the end users and agents as to the separate and independent identity of the respective companies and their services. Neither the Telephone Company nor the IC shall make any representation to end users, the public, prospective advertisers, expressed or implied, written or oral, which would imply that the IC is the same as, a part of, or associated with the Telephone Company.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(H) End User/Agent Lists (Cont'd)

(1) Presubscription List (Cont'd)

(e) This service may be terminated by either the Telephone Company or the IC upon thirty (30) days' written notice. The Telephone Company reserves the right to terminate this service immediately upon written notice if the IC misuses the list information. Performance by the Telephone Company shall be excused in the event of a strike, riot, act of God or any other cause beyond the reasonable control of the Telephone Company.

(2) Allocation Lists

(a) The Telephone Company will provide to the IC, at no charge, a list of end users and agents that have been allocated to the IC as described in 9.3.3(B). This list will be provided after the Balloting and Allocation process occurs.

(b) A list of all end users and agents who have been allocated, in accordance with 9.3.3(B), will be available to an IC upon request. Charges in 9.3.3(K)(1) will apply. The nonrecurring charge for the Allocation List applies each time the IC orders the service. A single order may contain all end offices within a state having the same equal access conversion date.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(H) End User/Agent Lists (Cont'd)

(3) Snapshot List

The Snapshot List is a summary of selected end user and agent information for specific IC which resides in the Telephone Company customer data base. The Snapshot List may be provided on magnetic tape, electronic transmission, or paper printout, at the option of the IC, at rates provided in Section 20. Foreign listings, PBX stations, CU Centrex stations and numbers not in service will not be provided.

The Snapshot List will be provided to the IC no later than 30 days after receipt of the order. The nonrecurring charge for the Snapshot List applies per state per order.

The purpose, liability, and objectives associated with the provision of the Snapshot List is in 9.3.3 (K)(1)(b)(c)(d)(e).

(I) Nonrecurring Charge for Primary Interexchange Carriers

The nonrecurring charge for the selection of a Primary Interexchange Carriers is as set forth in the Citizens Telecommunications Companies Tariff FCC No. 1, Section 20.

9.3.4 Billing Name and Address Service

The Telephone Company will, upon request, provide Billing Name and Address Service (BNAS) for customer provided ten digit end user telephone numbers. The BNAS will be provided only when the customer requires the information to bill a call.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

(RESERVED)

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
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3 High Ridge Park
Stamford, CT 06905

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Citizens Telecommunications Company
3 High Ridge Park
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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.4 Billing Name and Address Service (Cont'd)

A standard format for the receipt and provision of telephone number and billing name and address information will be established by the Telephone Company. Charges for each BNAS searched for and found or searched for and not found will be billed at rates in Section 20. BNAS will be provided via magnetic tape, electronic transmission, or paper format, at the option of the customer, at rates in Section 20.

The customer must order BNAS and provide test data tape at least 30 days prior to delivery of the first customer order.

The frequency for receipt of the customer provided orders will be no more than twice monthly and at intervals mutually agreed upon between the Telephone Company and the customer. The customer provided end user telephone numbers will be programmed by the Telephone Company with the proper end user's billing name and address contained in the Telephone Company's file at that time. BNAS for nonlisted/nonpublished end user telephone numbers will not be provided.

The output records will be sent to the customer via first class U.S. Mail. The output records will normally be made available for mailing ten workdays after receipt of the customer order or at an interval mutually agreed upon. Availability may be delayed in case of input errors in the customer provided order.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.3 Miscellaneous Services (Cont'd)

9.3.4 Billing Name and Address Service (Cont'd)

The customer may request data be transmitted. Data transmission charges will be determined on an ICB. Data transmission hardware and software specifications will be mutually agreed upon by the Telephone Company and the customer.

BNAS detail will not be retained by the Telephone Company longer than 45 days. If the customer requests that the output be made available on a second occasion, such request must occur within 30 days from the date the first was made.

Any customer, provided BNAS pursuant to this tariff, agrees to abide by all applicable rules, decisions, orders, statutes and laws concerning the disclosure of published and nonpublished telephone numbers, and further agrees to use the information contained therein only for the purpose of billing for services provided to their end users.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing

The Telephone Company will perform acceptance testing as specified in Section 6.5.10 and Section 7.1.6 preceding to ensure that services ordered by the customer are functioning properly, prior to turning over such services to the customer. In addition, the Telephone Company will perform ongoing tests as specified in Sections 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, and 6.3.6 preceding to assure the continued satisfactory performance of Switched Access Services ordered by the customer.

Testing offered under this section of the tariff is in addition to those tests described above and will be provided, when requested by the customer, at an additional charge.

Testing is provided by the Telephone Company personnel at Telephone Company locations. However, provisions are made in 9.4(A)(5) and 9.4(B)(2) following, to allow a customer to request Telephone Company personnel to perform testing at the customer designated premises or the end user premises.

Additional testing is provided on a scheduled or nonscheduled basis. Scheduled testing shall be performed on a predetermined time basis to allow for cost efficient utilization of Telephone Company and customer resources. Scheduled testing should be based on a one year period. Nonscheduled tests are performed by the Telephone Company on a request-by-request basis, not in conjunction with any fixed schedule.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

The offering of testing under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A) and (B) following.

(A) Switched Access Testing

Testing for Switched Access is comprised of (a) tests which are performed during the installation of Switched Access (i.e., acceptance tests) and (b) tests which are performed after acceptance of such Switched Access by a customer (i.e., in-service tests).

These tests are performed on a scheduled or nonscheduled basis, and may be conducted on an automatic, cooperative, or manual basis, as defined in (1), (2), (3), (4), and (5) following.

(1) Additional Cooperative Acceptance Testing
(USOC - UBCXT; UBCOT; UBCPT)

Additional Cooperative Acceptance Testing (ACAT) of Switched Access involves the Telephone Company provision of a technician at its office(s) and the customer provision of a technician at its CDP, with suitable test equipment to perform the required tests.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(1) Additional Cooperative Acceptance Testing
(USOC - UBCXT; UBCOT; UBCPT) (Cont'd)

Additional Cooperative Acceptance Testing may apply when the customer requests additional tests not specified in Section 6.5.10.

The labor charges as set forth in 9.2.7 will apply to Additional Cooperative Acceptance Testing at the appropriate Basic, Overtime, or Premium rate.

(2) Automatic Scheduled Testing (USOC - UBGXT)

Automatic Scheduled Testing (AST) of FGB, FGC, FGD and SAC Access Service, is provided, as specified in Sections 6.3.2, 6.3.3, 6.3.4, 6.3.5, and 6.3.6, where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. AST charges will apply when such testing is requested on a more frequent basis than is provided for in accordance with the Telephone Company's Central Office Maintenance Planning System (COMPS). The customer may specify a more frequent schedule of tests at least sixty days prior to the start of the prescribed

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(2) Automatic Scheduled Testing (USOC - UBGXT) (Cont'd)

schedule. Trunks from a Telephone Company digital switch, to a customer digital switch, utilizing digital facilities, are excluded from mandatory routine testing. The rates, as set forth in Section 20, will apply to additional AST.

The Telephone Company will provide a monthly AST report that lists the trunks within each Central Office access group that failed to meet established requirements. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis. A monthly report that lists the test results will be provided to the customer.

(3) Additional Cooperative Scheduled Testing (USOC - UBSXT; UBSXD)

Additional Cooperative Scheduled Testing (ACST) of FGA, FGB, FGC, FGD and SAC Access Service occurs when the Telephone Company provides a technician at its office(s) and the customer provides a technician at its customer designated location, with suitable test

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(3) Additional Cooperative Scheduled Testing (USOC - UBSXT;
UBSXD) (Cont'd)

equipment to perform the required tests. ACST charges will apply when loss/noise/balance testing or gain-slope testing is requested on a more frequent basis than is provided for in accordance with the Telephone Company's Central Office Maintenance Planning System (COMPS). ACST charges also apply when additional tests are requested for FGA, FGB, FGC, FGD, and SAC Access Service that are not specified in Section 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, or 6.3.6 respectively. The customer may specify a more frequent schedule of tests sixty days prior to the start of the prescribed schedule. The rates, as set forth in Section 20, will apply for additional ACST.

The Telephone Company will provide, on a quarterly basis, an ACST report that lists the test results and the number of trunks that passed or failed. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as occurs basis.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(4) Additional Manual Scheduling Testing (USOC - UBMXT; UBMXD)

Additional Manual Scheduled Testing (AMST) of FGA, FGB, FGC, FGD or SAC Access Service occurs when the Telephone Company provides a technician at its office(s) and at the customer designated location. AMST charges will apply when loss/noise/balance testing or gain-slope testing is requested on a more frequent basis than is provided for in accordance with the Telephone Company's Central Office Maintenance Planning System (COMPS). AMST charges also apply when additional tests are requested for FGA, FGB, FGC, FGD or SAC Access Service that are not specified in Sections 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, or 6.3.6 respectively. The customer may specify a more frequent schedule of tests sixty days prior to the start of the prescribed schedule. The rates as set forth in Section 20 following will apply to additional AMST.

The Telephone Company will provide, on a quarterly basis, an AMST report that lists the test results and the number of trunks that passed or failed. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as occurs basis.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(5) Nonscheduled Testing

Nonscheduled Testing (NST) will be performed "on demand" which results in the measurement of Switched Access. NST charges will apply only when testing is requested more frequently than is provided for in accordance with COMPS, or when a specific test is requested that is not normally performed. Tests for Switched Access which are normally performed are contained in Sections 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, or 6.3.6. Nonscheduled Testing (NST) of Switched Access may consist of the following testing arrangements:

- the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent (automatic testing), or (USOC - USCXT)
- the Telephone Company provides a technician at its office(s) and the customer provides a technician at its customer designated premises with suitable test equipment to perform the required tests (cooperative testing), or (USOC - USSXT; USSOT; USSPT)

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(5) Nonscheduled Testing (Cont'd)

- the Telephone Company provides a technician at its office(s), and at the customer designated location or end user premises with suitable test equipment to perform the required tests (manual testing). (USOC - USMXT; USMOT; USMPT)

(6) Obligations of the Customer

- (a) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support AST as set forth in 9.4(A)(2) preceding or NST as set forth in 9.4(A)(5) preceding.
- (b) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(B) Special Access Testing

The Telephone Company will, at the request of a customer, provide assistance in performing specific tests requested by the customer, however, the Telephone Company will only perform maintenance testing for its facilities within the LATA.

(1) Additional Cooperative Acceptance Testing
(USOC - SNTXT; SNTOT; SNTPT)

When a customer provides a technician at its customer designated premises or at the end user premises, with suitable test equipment to perform the required tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing (ACAT). The labor charges as set forth in 9.2.7 preceding will apply to ACAT at the appropriate Basic, Overtime, or Premium rate.

Additional Cooperative Acceptance Testing Charges will apply when the customer requests tests which are not required to meet the transmission performance parameters.

Continued

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(B) Special Access Testing

(2) Nonscheduled Testing (USOC - SNOXT; SNOOT; SNOPT)

When a customer provides a technician at its customer designated premises or at the end user premises, with suitable test equipment to perform the required tests, the Telephone Company will provide a technician at its end office(s) (cooperative testing) for the purpose of conducting Nonscheduled Testing (NST). Nonscheduled testing may consist of any test (e.g., loss, noise, slope, envelope delay, etc.) which the customer may request. If such testing indicates trouble in Telephone Company facilities, then the customer will not be charged. NST charges will apply if the trouble is in the facilities of the customer. At the customer's request, the Telephone Company will provide a technician at the customer designated premises or at the end user premises (manual testing). The labor charges as set forth in 9.2.7 preceding will apply to Nonscheduled Testing at the appropriate Basic, Overtime, or Premium rate.

Continued

ACCESS SERVICE

10. Special Construction

10.1 General

This section addresses special construction of Telephone Company facilities which are used to provide services offered under this tariff.

When special construction is required, the provisions of this section apply in addition to regulations, rates, and charges set forth in other sections of this tariff.

Regulations and rates will be added to this tariff for each specific application of Special Construction. The customer will provide written authorization to the Telephone Company prior to the commencement of any Special Construction.

10.1.1 Conditions Requiring Special Construction

Special construction is required when suitable facilities are not available to meet a customer's order for service and one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed at the customer's request;
- The customer requests that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would otherwise utilize in furnishing the requested service;
- The customer requests the construction of more facilities than are required to satisfy its order for service;

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.1 General (Cont'd)

10.1.1 Conditions Requiring Special Construction (Cont'd)

- The customer requests that construction be expedited resulting in added cost to the Telephone Company;
- The customer requests that temporary facilities be constructed until permanent facilities are available;
- The customer requests construction of permanent facilities to be used for temporary Video broadcast service.

10.1.2 Filing of Charges

Rates, charges and liabilities for special construction to provide facilities for use for one month or more are filed in 10.2, following, as appropriate.

When Special Construction is required under conditions that preclude the filing of charges in full accordance with the FCC's Rules and Regulations (e.g., unavailability of cost details, short notice service date):

- (A) Notification will be made to the FCC that Special Construction will be provided in accordance with Special Permission No. 83-867.
- (B) After charges have been filed and have become effective they will apply from the date that the Special Construction was provided.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.1 General (Cont'd)

10.1.2 Filing of Charges (Cont'd)

- (C) Charges and/or Maximum Termination Liabilities for Special Construction of facilities provided by a Connecting Carrier are developed by the Connecting Carrier and are filed by the Telephone Company in this tariff on its behalf.
- (D) Regulations and charges for Special Construction of facilities provided by Other Participating Carriers are filed in their tariffs.

10.1.3 Ownership of Facilities

The Telephone Company retains ownership of all specially constructed facilities, except for those facilities constructed by connecting companies or carriers, even though the customer may be required to pay Special Construction charges.

10.1.4 Interval to Provide Facilities

Based on available information and the type of service ordered, the Telephone Company will establish a completion date for the specially constructed facilities. If the scheduled completion date cannot be met due to circumstances beyond the control of the Telephone Company, a new completion date will be established and the customer will be notified.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.1 General (Cont'd)

10.1.5 Special Construction Involving Interstate and Intrastate Facilities

When special construction involves facilities to be used to provide both interstate and intrastate services, charges for the portion of the construction used to provide intrastate service shall be in accordance with this tariff. Charges for the portion of the construction used to provide intrastate service shall be in accordance with the appropriate intrastate tariff.

10.2 Liabilities, Charges & Payments

10.2.1 General

This section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction.

10.2.2 Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.3 Credit Allowance for Service Interruptions

In the event of a service interruption involving a specially constructed facility, the customer shall receive a recurring monthly charge credit in accordance with the credit allowance provisions in the appropriate service tariff associated with the affected services.

When an interruption continues due to the failure of the customer to authorize the replacement of facilities subject to a Replacement Charge, as specified in 10.2.7(A)(4) following, the credit allowance will be terminated on the seventh calendar day after the Telephone Company has provided the customer with written notification of the need for replacement. The credit allowance will resume on the day after the Telephone Company receives written authorization for the replacement from the customer.

10.2.4 Partial Payments

The Telephone Company will require a customer which has a proven history of late payments to the Telephone Company, or does not have established credit, to make a partial payment for the portion of the estimated cost of the Special Construction for which the customer is subject to a nonrecurring charge. Partial payments will be requested as costs are incurred and will be credited to the customer's account. Partial payments will not exceed the total nonrecurring charge to the customer for the Special Construction.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.5 Development of Liabilities and Charges

Special construction charges and liabilities will be developed based on estimated costs, except when actual costs are requested in writing prior to the start of special construction.

In order to meet a scheduled service date when actual costs are requested, an initial special construction filing may be made based on estimated costs. Such a filing will be revised when actual costs are available.

10.2.6 Type of Liabilities and Charges

Depending on the specifics associated with each individual case, one or more of the following special construction charges and/or liabilities may be applicable:

(A) Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the nonrecoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The liability period is equal to the average life of the account associated with the specially constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.6 Type of Liabilities and Charges (Cont'd)

(A) Maximum Termination Liability and Termination Charge (Cont'd)

The Maximum Termination Liability is filed with the initial tariff filing in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-year Average Account Life

| <u>Maximum Termination Liability</u> | <u>Effective Date</u> | <u>Expiration Date</u> |
|--|---------------------------|----------------------------|
| \$10,000.00 | 6/1/84 | 6/1/94 |
| 7,000.00 | 6/1/94 | 6/1/04 |
| 3,000.00 | 6/1/04 | 6/1/11 |

Prior to the expiration of each liability period, the customer has the option to (A) terminate the special construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

The Telephone Company will notify the customer six months in advance of the expiration date of each ten-year liability period. The customer must provide the

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.6 Type of Liabilities and Charges (Cont'd)

(A) Maximum Termination Liability and Termination Charge (Cont'd)

Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period at the filed Maximum Termination Liability amount.

A Termination Charge may apply when all services using specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any cost for restoring a location to its original condition are also included. A Termination Charge may never exceed the filed Maximum Termination Liability.

A partial termination of specially constructed facilities will be provided, at the election of the customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.6 Type of Liabilities and Charges (Cont'd)

(A) Maximum Termination Liability and Termination Charge (Cont'd)

discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. A tariff filing will be made following a partial termination to list remaining Maximum Termination Liability amounts and the number of specially constructed facilities the customer will remain liable for.

Example:

A customer with a filed Maximum Termination Liability of \$100,000 for 3600 specially constructed facilities requests a partial termination of 900 facilities. The Termination Charge for all facilities, at the time of election, is \$60,000. The partial termination charge, in this example, is $\$60,000 \times 900/3600$, or \$15,000.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.6 Type of Liabilities and Charges (Cont'd)

(B) Annual Underutilization Liability and Underutilization Charge

Prior to the start of special construction, the Telephone Company and the customer will agree on (1) the quantity of facilities to be provided, and (2) the length of the planning period during which the customer expects to place the facilities in service. The planning period is hereinafter referred to as the Initial Liability Period (ILP). The ILP is listed in the tariff with an effective and expiration date.

Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff service rates.

An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of special construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes and any other costs identified in the supporting documentation provided at the time the special construction case is filed.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.6 Type of Liabilities and Charges (Cont'd)

(B) Annual Underutilization Liability and Underutilization Charge (Cont'd)

Upon the expiration of the ILP, the number of underutilized facilities, if any, are multiplied by the annual underutilization liability amount. This product is then multiplied by the number of years (including any fraction thereof) in the ILP to determine the underutilization charge.

Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization liability amount to determine the underutilization charge for the preceding 12 month period.

Example:

A customer orders 100 services and the special construction of a 600 pair building riser cable is agreed to, based on the customer's 5 year facility requirements. The ILP, in this example, would be filed at 5 years. The annual underutilization liability is filed at \$2.00 per pair.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.6 Type of Liabilities and Charges (Cont'd)

(B) Annual Underutilization Liability and Underutilization Charge (Cont'd)

If 400 pairs were in service at the end of the ILP, there would be an underutilization of 20 pairs, i.e., 420 (70% of 600) - $400 = 20$. The total underutilization charge for the first 5 years would be \$200.00, or \$2.00 per pair x 20 pairs x 5 years.

If 420 pairs are in service at the end of the 6th year, there is no underutilization, i.e., $420 - 420 = 0$.

10.2.7 Types of Charges

Two categories of charges may be applicable for Special Construction. These charges are nonrecurring charges and recurring charges. These categories are described below.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges

A nonrecurring charge always applies and includes one or more of the following components:

(1) Case Preparation Charge

A nonrecurring charge always includes a case preparation charge component to cover the administrative expenses associated with preparing a special construction case and the associated tariff filing.

(2) Termination Charge

A Termination Charge applies when, at the customer's request, services provided on specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(2) Termination Charge (Cont'd)

The charge reflects the unamortized portion of the nonrecoverable cost at the time of termination of the specially constructed facilities adjusted for tax effects, for net salvage and for possible reuse. Administrative costs associated with the specific case of Special Construction and any cost for restoring a location to its original condition are also included. Termination Charges will never exceed the MTL.

(3) Cancellation Charge

If the customer cancels an ASR with which Special Construction is associated prior to the in-service date of the facility, a Cancellation Charge will apply. The charge will include all nonrecoverable costs less the net salvage value incurred by the Telephone Company up to and including the time of cancellation.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(4) Replacement Charge

If any portion of specially constructed facilities for which an optional payment charge has been paid requires replacement involving capital investment, a replacement charge will apply. This charge will be in the same ratio to the total replacement cost as the initial optional payment charge was to the installed cost of the original specially constructed facilities. If any portion of the facilities subject to the replacement charge fails, service will not be restored until notification is provided in writing that replacement is required and such replacement is ordered.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(4) Replacement Charge (Cont'd)

Example:

| | |
|----------------------------------|----------|
| Original Total Installed Cost | \$30,000 |
| Original Optional Payment Charge | \$15,000 |
| Subsequent Cost of Replacement | \$ 2,000 |

Original Optional Payment Charge x
Replacement Cost
Total Installed Cost

$\frac{\$15,000 \times \$2,000}{\$30,000} = 1,000$

| | |
|--------------------|---------|
| Replacement Charge | \$1,000 |
|--------------------|---------|

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Expediting Charge

An Expediting Charge applies when a customer requests that Special Construction be completed on an expedited basis. The charge is equal to the difference in the estimated cost of construction on an expedited basis and construction without expediting.

(6) Rearrangement Charge

If the Telephone Company is requested to rearrange existing specially constructed facilities, a nonrecurring charge equal to the cost of any additional special construction will apply.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(7) Optional Payment Charge

The customer may elect to pay an Optional Payment Charge when it requests Special Construction of facilities utilizing (1) a type of facilities or (2) a route other than that which the Telephone Company would otherwise utilize in furnishing the requested service. Payment of this charge will result in a lower recurring charge for the Special Construction. This election must be made in writing, before Special Construction starts.

If this election is coupled with the actual cost option, the Optional Payment Charge will reflect the actual cost of the specially constructed facilities.

(a) Development of Optional Payment Charge

This charge is equal to the excess installed cost or the total nonrecoverable cost, whichever is less (based on estimated or actual costs as elected by the customer).

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(7) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

Example 1:

| | |
|-----------------------|----------|
| Total Installed Cost | \$30,000 |
| Nonrecoverable | 20,000 |
| Normal Installed Cost | 17,000 |

| | |
|------------------------------|----------|
| Total Installed Cost | \$30,000 |
| Minus Normal Installed Cost | 17,000 |
| Equals Excess Installed Cost | 13,000 |
| Optional Payment Charge | 13,000 |

| | |
|--|----------|
| Nonrecoverable Cost | \$20,000 |
| Minus Optional Payment Charge | 13,000 |
| Equals Investment for MTL Computation | 7,000 |
| Remaining Recoverable Excess Installed Cost | \$ 0 |

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(7) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

Since the total installed cost is \$30,000 and the normal installed cost would have been \$17,000, the nonrecurring charge (optional payment) is limited to the difference (i.e., \$13,000). A Maximum Termination Liability would then be established to protect the remaining nonrecoverable cost of \$7,000 which is the difference between the total nonrecoverable cost (\$20,000) and the nonrecurring charge (\$13,000). The remaining excess installed cost in this example is zero. In addition, a recurring charge will be developed as set forth in 10.2.7(B) following.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(7) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

Example 2:

| | |
|-----------------------|----------|
| Total Installed Cost | \$30,000 |
| Nonrecoverable Cost | 10,000 |
| Normal Installed Cost | 17,000 |

| | |
|------------------------------|----------|
| Total Installed Cost | \$30,000 |
| Minus Normal Installed Cost | 17,000 |
| Equals Excess Installed Cost | 13,000 |
| Optional Payment Charge | 10,000 |

| | |
|--|----------|
| Nonrecoverable Cost | \$10,000 |
| Minus Optional Payment Charge | 10,000 |
| Equals Investment for MTL Computation | 0 |
| Remaining Recoverable Excess Installed Cost | \$3,000 |

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(7) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

The Optional Payment Charge is limited to the nonrecoverable cost. In this example, the Optional Payment Charge equals the nonrecoverable cost. Therefore, there is no Maximum Termination Liability. In addition, a recurring charge will be developed as set forth in 10.2.7(B) following.

(8) Special Construction of Facilities for Use for Less than One Month

When the Telephone Company is requested to construct facilities to provide service for less than one month, a nonrecurring charge only applies. In addition to the case preparation charge component, this nonrecurring charge recovers all elements of cost, including engineering, shipping of equipment, equipment installation, line-up, equipment leasing, space rental, equipment removal, and any other costs associated with the construction of the facilities.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges

These charges apply on a monthly or annual basis for specially constructed facilities. There are three conditions for which recurring charges apply:

- When a customer requests the construction of more facilities than are necessary to provide services currently ordered.
- When a customer requests a facility route or type other than that which the Telephone Company would utilize to provide services.
- When a customer's request results in the Telephone Company leasing transmission or other equipment from private vendors to provide services (Lease Charge).

(1) Excess Capacity Charge

An Excess Capacity Charge applies when the customer requests more facilities be constructed than are required to satisfy the customer's ASR. The charge is based on the estimated cost difference between the facilities constructed at the customer's request and the facilities actually required to meet the customer's ASR.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

Example:

A customer has an immediate facilities requirement which would require a 100 pair cable but requests the installation of a 300 pair cable to allow for growth.

| | |
|-------------------------------------|---------|
| Total Installed Cost (300 Pair) | \$2,500 |
| Estimated Annual Cost | \$ 920 |
| Estimated Installed Cost (100 Pair) | \$1,000 |
| Estimated Annual Cost | \$ 368 |

Excess Recurring Charge:

$$\text{Annually } \$920 - \$368 = \$552$$

$$\text{Monthly } \frac{\$552}{12} = \$46$$

This charge applies until such time as the customer orders sufficient facilities to necessitate use of a larger size cable (e.g., 200 pair cable). At that time the recurring charge is adjusted as indicated in the following example:

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(1) Excess Capacity Charge (Cont'd)

| | |
|-------------------------------------|---------|
| Total Installed Cost (300 Pair) | \$2,500 |
| Estimated Annual Cost | \$ 920 |
| Estimated Installed Cost (200 Pair) | \$1,900 |
| Estimated Annual Cost | \$ 683 |

Excess Recurring Charge:

Annually \$920 - \$683 = \$237

Monthly \$237
12 = \$19.75

The charge is revised in this manner until the number of facilities being provided would require a 300 pair cable, at which time the Excess Capacity Charge is no longer applied. The charge would be reapplied if the number of facilities declined to a level which would not require a 300 pair cable.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(1) Excess Capacity Charge (Cont'd)

Such charges will continue to apply to all facilities held in abeyance until the period of termination liability expires. If facilities are still held in abeyance after the termination liability expires, a new schedule of rates will be calculated and such rates will apply as long as facilities are held in abeyance for the customer.

(2) Charge for Route or Type Other Than Normal

When special construction is requested using a route or type of facility other than that which the Telephone Company would normally use, a recurring monthly charge, in addition to the monthly rates for service, is applicable. The charge is equal to the difference between the recurring costs of the specially constructed facilities and the recurring costs of the facilities the Telephone Company would have normally used.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(2) Charge for Route or Type Other Than Normal (Cont'd)

(a) When a Optional Payment Charge as set forth in 10.2.7(A)(7) preceding has been elected, the recurring monthly charge will be reduced to include specially constructed facility operating expenses only.

(b) If the actual cost option as set forth in 10.2.5 preceding has been elected, the recurring charge will be adjusted to reflect the actual cost of the new construction when the costs have been determined. This adjusted recurring charge is applicable from the start of service.

(3) Lease Charge

This charge applies when the Telephone Company leases equipment in order to meet service requirements. The amount of the charge is equal to the net added cost to the Telephone Company caused by the lease.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.8 Application of Charges

The charges for Special Construction are those charges which are in effect for the period that the Special Construction is furnished. If the charges for a period covered by a bill change after the bill has been rendered, the bill will be adjusted to reflect the new charges. Charges are based on Special Construction of (A) permanent facilities or (B) temporary facilities.

(A) Special Construction of Permanent Facilities

(1) Special Construction When Not Available and There is No
Other Requirement for Them

When permanent facilities are not available and the Telephone Company constructs them and there is no other Telephone Company need for the specially constructed facilities, a nonrecurring charge, and a Maximum Termination Liability may be applicable.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.8 Application of Charges (Cont'd)

(A) Special Construction of Permanent Facilities (Cont'd)

(2) Special Construction Using a Route or Type of Facility Other Than Normal

When the specially constructed facilities involve a route or type of facility other than that which the Telephone Company would ordinarily use, charges are based on the difference between the estimated costs of the specially constructed facility and those the Telephone Company would ordinarily use. A nonrecurring charge, a recurring charge, and a Maximum Termination Liability may be applicable.

(3) Special Construction of a Greater Quantity of Facilities Than Necessary to Satisfy the Customer's Order for Service

When the Telephone Company constructs more facilities than is required to satisfy the customer's ASR, additional charges will apply. These charges may include a nonrecurring charge, a recurring charge, and a Maximum Termination Liability.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.8 Application of Charges (Cont'd)

(A) Special Construction of Permanent Facilities (Cont'd)

(4) Special Construction Expedited at Greater Cost Than Would
Otherwise be Incurred

When construction is expedited resulting in added costs, a nonrecurring Expediting Charge applies.

(B) Special Construction of Temporary Facility Order

When permanent facilities are not available and temporary facilities are constructed pending the construction of permanent facilities, a nonrecurring charge, and a Maximum Termination Liability may be applicable.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges & Payments (Cont'd)

10.2.9 Payment of Charges

All bills associated with special construction charges are due in accordance with the regulations in the appropriate service tariff.

10.3 Deferral of the In-Service Date of Facilities

10.3.1 General

The customer may request the Telephone Company to defer the in-service date of facilities on specially constructed facilities subject to the provisions as set forth in Section 5.3.3 preceding. If the deferral is not in compliance with the provisions as set forth in Section 5.3.3, the Special Construction case is considered to be canceled and cancellation charges apply. Requests for deferral must be in writing and are subject to the following regulations.

10.3.2 Construction Has Not Started

If the Telephone Company has not incurred any costs (e.g., engineering and/or installation) before receiving the customer's request for deferral, no charge applies other than the Case Preparation Charge. However, the original quotation is subject to Telephone Company review at the time of reinstatement to determine if the original charges are still valid. Any change in liabilities and charges requires the concurrence of the customer in writing. Additional Case Preparation Charges will also apply.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.3 Deferral of the In-Service Date of Facilities (Cont'd)

10.3.3 Construction Has Started But It Is Not Complete

If the construction of facilities has started, but has not been completed, before the Telephone Company receives the customer's request for deferral, charges apply. The charges vary depending on whether all or some of the facilities ordered are deferred.

(A) All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

(B) Some But Not All Services are Deferred

When some, but not all, services utilizing the specially constructed facilities are deferred, the Special Construction case will be completed. Maximum Termination Liability will apply in addition to Case Preparation Charges and any recurring charges associated with the Special Construction.

Continued

ACCESS SERVICE

10. Special Construction (Cont'd)

10.3 Deferral of the In-Service Date of Facilities (Cont'd)

10.3.4 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives the customer's request for deferral, the Case Preparation Charge as originally determined, will apply and any recurring charges associated with the Special Construction. The maximum termination liability period will begin when the customer accepts the service.

10.4 Charges to Provide Temporary Facilities

This section contains the Special Construction charges to provide temporary facilities to individual customers. Charges are developed on an Individual Case Basis for a specific customer and filed in this section.

10.5 Charges for Customers Choosing the Standard Liability Period to Provide Permanent Services

This section contains the Special Construction charges to provide permanent services to individual customers. Charges are developed on an Individual Case Basis for a specific customer and filed in this section.

10.5.1. Charges

(Reserved for Future Use.)

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes

11.1 Local Transport Interface Groups

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer's premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

Only certain premises interfaces are available at the customer's premises. The premises interfaces codes associated with the Interface Groups may vary among Feature Groups. The various premises interfaces codes which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 11.1.11 following.

For each of the ten Interface Groups described following, the transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant and equipment capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

11.1.1 Interface Group 1 (USOC TPPIX)

Interface Group 1 provides a two-wire voice frequency transmission path at the point of termination at the customer's premises. Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching can only provide four-wire terminations.

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC, or FGD when the first point of switching provides only four-wire terminations.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.1 Interface Group 1 (USOC TPPIX) (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC, or FGD, such signaling will be reverse battery signaling. When FGB, FGC, or FGD access service is associated with a two-way calling interface, E&M signaling shall be used.

11.1.2 Interface Group 2 (USOC TTP2X)

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer's premises. The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC, or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of, and typically used in the telecommunications industry for the transmission of voice, and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.3 Interface Group 3 (USOC TPP3X)

Interface Group 3 provides group level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 180 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with SF supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 3 is available to existing customers only.

11.1.4 Interface Group 4 (USOC TPP4X)

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.4 Interface Group 4 (USOC TPP4X) (Cont'd)

and channel bank equipment to derive 60 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with SF supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 4 is available to existing customers only.

11.1.5 Interface Group 5 (USOC TPP5X)

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with SF supervisory signaling for each individual transmission channel.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.5 Interface Group 5 (USOC TPP5X) (Cont'd)

As of December 1, 1993, Interface Group 5 is available to existing customers only.

11.1.6 Interface Group 6 (USOC TPP6X)

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

11.1.7 Interface Group 7 (USOC TPP7X)

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.7 Interface Group 7 (USOC TPP7X) (Cont'd)

nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 7 is available to existing customers only.

11.1.8 Interface Group 8 (USOC TPP8X)

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.8 Interface Group 8 (USOC TPP8X) (Cont'd)

to 96 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

Interface Group 8 is provided on an Individual Case Basis.

11.1.9 Interface Group 9 (USOC TPP9X)

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.9 Interface Group 9 (USOC TPP9X) (Cont'd)

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

11.1.10 Interface Group 10 (USOC TPPAX)

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4032 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

Interface Group 10 is provided on an Individual Case Basis.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes

Following is a matrix showing which premises interface codes are available for each Interface Group as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface Codes in 11.3.1 following.

| Interface Group | Telephone Company Switch Supervisory Signaling | Premises Interface Code | Feature Group | | | |
|-----------------|--|-------------------------|---------------|---|---|---|
| | | | A | B | C | D |
| 1 | LO | 2LS2 | X | | | |
| | LO | 2LS3 | X | | | |
| | GO | 2GS2 | X | | | |
| | GO | 2GS3 | X | | | |
| | LO, GO | 2DX3 | X | | | |
| | LO, GO | 4EA3-E | X | | | |
| | LO, GO | 4EA3-M | X | | | |
| | LO, GO | 6EB3-E | X | | | |
| | LO, GO | 6EB3-M | X | | | |
| | RV, EA, EB, EC | 2DX3 | | X | X | X |
| | RV, EA, EB, EC | 4EA3-E | | X | X | X |
| | RV, EA, EB, EC | 4EA3-M | | X | X | X |
| | RV, EA, EB, EC | 6EB3-E | | X | X | X |
| | RV, EA, EB, EC | 6EB3-M | | X | X | X |
| | EA, EB, EC | 6EC3 | | | X | X |
| | RV | 2RV3-0 | | X | X | X |
| | RV | 2RV3-T | | X | X | X |
| | 2 | LO, GO | 4SF2 | X | | |
| LO, GO | | 4SF3 | X | | | |
| LO | | 4LS2 | X | | | |
| LO | | 4LS3 | X | | | |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

| <u>Interface Group</u> | <u>Telephone Company Switch Supervisory Signaling</u> | <u>Premises Interface Code</u> | <u>Feature Group</u> | | | | |
|------------------------|---|--------------------------------|----------------------|----------|----------|----------|---|
| | | | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | |
| 2 (Cont'd) | LO | 6LS2 | X | | | | |
| | GO | 4GS2 | X | | | | |
| | GO | 4GS3 | X | | | | |
| | GO | 6GS2 | X | | | | |
| | LO, GO | 4DX2 | X | | | | |
| | LO, GO | 4DX3 | X | | | | |
| | LO, GO | 6EA2-E | X | | | | |
| | LO, GO | 6EB2-M | X | | | | |
| | LO, GO | 8EB2-E | X | | | | |
| | LO, GO | 8EB2-M | X | | | | |
| | LO, GO | 6EX2-B | X | | | | |
| | RV, EA, EB, EC | 4SF2 | | X | X | X | |
| | RV, EA, EB, EC | 4SF3 | | X | | | |
| | RV, EA, EB, EC | 4DX2 | | X | X | X | |
| | RV, EA, EB, EC | 4DX3 | | X | X | X | |
| | RV, EA, EB, EC | 6DX2 | | | X | | |
| | RV, EA, EB, EC | 6EA2-E | | X | X | X | |
| | RV, EA, EB, EC | 6EA2-M | | X | X | X | |
| | RV, EA, EB, EC | 8EB2-E | | | X | X | |
| | RV, EA, EB, EC | 8EB2-M | | X | X | X | |
| | EA, EB, EC | 8EC2-M | | X | X | X | |
| | RV | 4RV2-0 | | X | X | X | |
| | RV | 4RV2-T | | X | X | X | |
| | RV | 4RV3-0 | | X | X | | |
| | RV | 4RV3-T | | X | X | | |
| | 2 | LO, GO | 4AH5-B | X | | | |
| | | RV, EA, EB, EC | 4AH5-B | | X | X | X |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

| Interface Group | Telephone Company Switch Supervisory Signaling | Premises Interface Code | Feature Group | | | |
|-----------------|---|----------------------------|---------------|---|---|---|
| | | | A | B | C | D |
| 4 | LO, GO | 4AH6-C | X | | | |
| | RV, EA, EB, EC | 4AH6-C | | X | X | X |
| 5 | LO, GO | 4AH6-D | X | | | |
| | RV, EA, EB, EC | 4AH6-D | | X | X | X |
| 6 | LO, GO | 4DS9-15 | X | | | |
| | LO, GO | 4DS9-15L | X | | | |
| | RV, EA, EB, EC | 4DS9-154 | | X | X | X |
| | RV, EA, EB, EC | DS9-15L | | X | X | X |
| 7 | LO, GO | 4DS9-31 | X | | | |
| | RV, EA, EB, EC | 4DS9-32 | | X | X | X |
| | LO, GO | 4DS9-31L | X | | | |
| | RV, EA, EB, EC | 4DS9-31L | | X | X | X |
| 8 | LO, GO | 4DSO-63 | X | | | |
| | LO, GO | 4DSO-63L | X | | | |
| | RV, EA, EB, EC | 4DSO-63 | | X | X | X |
| | RV, EA, EB, EC | 4DSO-63L | | X | X | X |
| 9 | LO, GO | 4DS6-44 | X | | | |
| | LO, GO | 4DS6-44L | X | | | |
| | RV, EA, EB, EC | 4DS6-44 | | X | X | X |
| | RV, EA, EB, EC | 4DS6-44L | | X | X | X |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

| Interface Group | Telephone Company Switch Supervisory Signaling | Premises Interface Code | Feature Group | | | |
|-----------------|---|----------------------------|---------------|---|---|---|
| | | | A | B | C | D |
| 10 | LO, GO | 4DS6-27 | X | | | |
| | LO, GO | 4DS6-27L | X | | | |
| | RV, EA, EB, EC | 4DS6-27 | | X | X | X |
| | RV, EA, EB, EC | 4DS6-27L | | X | X | X |

11.1.12 Supervisory Signaling

Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

- For Interface Groups 1 and 2

 DX Supervisory Signaling,
 E&M Type I Supervisory Signaling,
 E&M Type II Supervisory Signaling, or
 E&M Type III Supervisory Signaling
- For Interface Group 2

 SF Supervisory Signaling, or
 Tandem Supervisory Signaling

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.12 Supervisory Signaling (Cont'd)

These Interface Groups may, at the option of the customer be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., nondigital, interface to the transport termination.

11.2 Transmission Specifications Switched Access Service

11.2.1 Standard Transmission Specifications

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NPL-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

| <u>Route Miles</u> | <u>C-Message Noise</u> |
|--------------------|------------------------|
| Less than 50 | 32 dBrnCO |
| 51 to 100 | 34 dBrnCO |
| 101 to 200 | 37 dBrnCO |
| 201 to 400 | 40 dBrnCO |
| 401 to 1000 | 42 dBrnCO |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

| | <u>Echo Return Loss</u> | <u>Singing Return Loss</u> |
|----------------------|-----------------------------|--------------------------------|
| POT to Access Tandem | 21 dB | 14 db |
| POT to End Office | | |
| - Direct | N/A | N/A |
| - Via Access Tandem | 16 dB | 11 dB |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire (2) ports of a four-wire (4) point of termination shall be equal to or greater than:

Echo Return Loss

Singing Return Loss

5 dB

2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 2.5 dB.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

| <u>Route Miles</u> | <u>C-Message Noise*</u> | |
|--------------------|-------------------------|----------------|
| | <u>Type B1</u> | <u>Type B2</u> |
| Less than 50 | 32 dBrnCO | 35 dBrnCO |
| 51 to 100 | 33 dBrnCO | 37 dBrnCO |
| 101 to 200 | 35 dBrnCO | 40 dBrnCO |
| 201 to 400 | 37 dBrnCO | 43 dBrnCO |
| 401 to 1000 | 39 dBrnCO | 45 dBrnCO |

* For Feature Groups C and D only type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Service, type of termination, and type of transmission path. They are greater than or equal to the following:

| | <u>Echo Return Loss</u> | <u>Singing Return Loss</u> |
|----------------------|-----------------------------|--------------------------------|
| POT to Access Tandem | | |
| - Terminated in | | |
| Four-wire (4) trunk | 21 dB | 14 dB |
| - Terminated in | | |
| Two-wire (2) trunk | 16 dB | 11 dB |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

| | <u>Echo Return Loss</u> | <u>Singing Return Loss</u> |
|---|-----------------------------|--------------------------------|
| POT to End Office | | |
| - Direct | 16 dB | 11 dB |
| - Via Access Tandem | | |
| . For FGB access | 8 dB | 4 dB |
| . For FGC access (effective four-wire (4) transmission path at end office) | 16 dB | 11 dB |
| . For FGC access (effective two-wire (2) transmission path at end office) | 13 dB | 6 dB |

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire (2) ports of a four-wire (4) point of termination shall be equal to or greater than:

| <u>Echo Return Loss</u> | <u>Singing Return Loss</u> |
|-------------------------|----------------------------|
| 5 dB | 2.5 dB |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications (Cont'd)

(3) C-Message Noise (Cont'd)

| <u>Route Miles</u> | <u>C-Message Noise*</u> | |
|--------------------|-------------------------|----------------|
| | <u>Type B1</u> | <u>Type B2</u> |
| Less than 50 | 32 dBmCO | 38 dBmCO |
| 51 to 100 | 33 dBmCO | 39 dBmCO |
| 101 to 200 | 35 dBmCO | 41 dBmCO |
| 201 to 400 | 37 dBmCO | 43 dBmCO |
| 401 to 1000 | 39 dBmCO | 45 dBmCO |

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBmCO.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the

* For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided set forth in Technical Reference TR-NPL-000334.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

| | <u>Echo Return Loss</u> | <u>Singing Return Loss</u> |
|---------------------------------------|-----------------------------|--------------------------------|
| POT to Access Tandem | 13 dB | 6 dB |
| POT to End Office | | |
| - Direct | 13 dB | 6 dB |
| - Via Access Tandem (for FGB only) | 8 dB | 4 dB |

11.2.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Service arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in Section 6.3 preceding. In addition, the Combined Access Service Arrangement is provided with Data Transmission Parameters. Following are descriptions of each parameter.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

Less than 50 route miles 500 microseconds

Equal to or greater than
50 route miles 900 microseconds

1004 to 2404 Hz

Less than 50 route miles 200 microseconds

Equal to or greater than
50 route miles 400 microseconds

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBmCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

| | |
|-------------------|-------|
| Second Order (R2) | 33 dB |
| Third Order (R3) | 40 dB |

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5 degrees peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

Less than 50 route miles 800 microseconds

Equal to or greater than
50 route miles 1000 microseconds

1004 to 2404 Hz

Less than 50 route miles 320 microseconds

Equal to or greater than
50 route miles 500 microseconds

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBmCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

| | |
|-------------------|-------|
| Second Order (R2) | 31 dB |
| Third Order (R3) | 34 dB |

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

(6) Frequency Shift

The maximum Frequency shift does not exceed -2 to +2 Hz.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct Trunked Transport. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies an NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

- 2 = Number of physical wires at customer premises
- DC = Facility interface for direct current or voltage
- 8 = Variable impedance level
- 3 = Metallic facilities (DC continuity) for direct
current/low frequency control signals or slow speed
data (30 baud)

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|--|
| AB | - | Accepts 20 Hz ringing signal at customer's point of termination |
| AC | - | Accepts 20 Hz ringing signal at customer's end user's point of termination |
| AH | - | Analog high capacity interface |
| | - B | 60 kHz to 108 kHz (12 Channels) |
| | - C | 312 kHz to 552 kHz (60 channels) |
| | - C | 564 kHz to 3084 kHz (600 channels) |
| CT | - | Centrex Tie Trunk Termination |
| DA | - | Data stream in VF frequency band at customer's end user's point of termination |
| DB | - | Data stream in VF frequency band at customer's point of termination |
| | - 10 | VF for TG1 and TG2 |
| | - 43 | VF for 43 Telegraph Carrier type signals, TG1 and TG2 DC - direct current or voltage |

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| DB - | | (Cont'd) |
| - | 1 | Monitoring interface with series RC combination (McCulloh format) |
| - | 2 | Telephone Company energized alarm channel |
| - | 3 | Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud) |
| DD - | | DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination |
| DE - | | DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination |
| DS - | | Digital hierarchy interface |
| - | 15 | 1.544 Mbps (DS1) format per PUB 41451 plus D4 |
| - | 15E | 8-bit PCM encoded in one 64 kbps of the DS1 signal |
| - | 15F | 8-bit PCM encoded in two 64 kbps of the DS1 signal |
| - | 15G | 8-bit PCM encoded in three 64 kbps of the DS1 signal |
| - | 15H | 14/11-bit PCM encoded in six 64 kbps of the DS1 signal |
| - | 15J | 1.544 Mbps format per PUB 41451 |
| - | 15K | 1.544 Mbps format per PUB 41451 plus extended framing format |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|--|
| DS - | | (Cont'd) |
| - | 15L | 1.544 Mbps (DS1) with SF signaling |
| - | 27 | 374.176 Mbps (DS4) |
| - | 27L | 274.176 Mbps (DS4) with SF signaling |
| - | 31 | 3.152 Mbps (DS1C) |
| - | 31L | 3.152 Mbps (DS1C) with SF signaling |
| - | 44 | 44.736 Mbps (DS3) |
| - | 44L | 44.736 Mbps (DS3) with SF signaling |
| - | 66 | 6.312 Mbps (DS2) |
| - | 66L | 6.312 Mbps (DS2) with SF signaling |
| DU - | | Digital access interface |
| - | 19 | 19.2 kbps |
| - | 24 | 2.4 kbps |
| - | 48 | 4.8 kbps |
| - | 56 | 56.0 kbps |
| - | 64 | 64.0 kbps |
| - | 96 | 9.6 kbps |
| - | A | 1.544 Mbps format per PUB 41451 |
| - | B | 1.544 Mbps format per PUB 41451 plus D\$ |
| - | C | 1.544 Mbps format per PUB 41451 plus extended framing format |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|--|
| DX- | | Duplex signaling interface at customer's point of termination |
| DY- | | Duplex signaling interface at customer's end user's point of termination |
| EA - | E | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E lead |
| EA - | M | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M lead |
| EB - | E | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E lead |
| EB - | M | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M lead |
| EC - | | Type II E&M signaling at customer POT |
| EX- | A | Tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions. |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|--|
| EX- | B | Tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions |
| GO - | | Ground start loop signaling - open end function by customer or customer's end user |
| GS - | | Ground start loop signaling - closed end function by customer or customer's end user |
| IA - | | E.I.A. (25 pin RS-232) |
| LA - | | End user loop start loop signaling - Type A OPS registered port open end |
| LB - | | End user loop start loop signaling - Type B OPS registered port open end |
| LC - | | End user loop start loop signaling - Type C OPS registered port open end |

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| LO - | B | Loop start signaling - open end function by customer or customer's end user |
| LR - | | 20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR |
| LS - | | Loop start loop signaling - closed end function by customer or customer's end user |
| NO - | | No signaling interface, transmission only |
| PG - | | Program transmission - no dc signaling |
| - | 1 | Nominal frequency from 50 to 15000 Hz |
| - | 3 | Nominal frequency from 200 to 3500 Hz |
| - | 5 | Nominal frequency from 100 to 5000 Hz |
| - | 8 | Nominal frequency from 50 to 8000 Hz |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| PR - | | Protective relaying * |
| RV - | O | Reverse battery signaling, one way operation, originate with customer |
| - | T | Reverse battery signaling, one way operation, terminate function by customer or customer's end user |
| SF - | | Signal frequency signaling with VF band at either customer POT or customer's end user |
| TF - | | Telegraph interface |
| TT - | | Telegraph/Teletypewriter interface at either customer POT or customer's end user POT |
| - | | |
| - | 2 | 20.0 milliamperes |
| - | 3 | 3.0 milliamperes |
| - | 6 | 62.5 milliamperes |
| TV | | Television interface |
| - | 1 | Combined (duplexed) video and one audio signal |
| - | 2 | Combined (duplexed) video and two audio signals |
| - | 3 | Video plus one (or two) audio 5 kHz signal (s) or one (or two) two-wire |

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| TV - | | (Cont'd) |
| - | 15 | Video plus one (or two) audio 15 kHz signal (s) |
| WA - | | Wideband bandwidth interface at customer's end user POT |
| - | 1 | Limited bandwidth |
| - | 2 | Nominal data interface at customer POT |
| WB - | | Wideband data interface at customer POT |
| - | 18 | 18.75 kbps, synchronous |
| - | 19A | Up to 19.2 kbps, asynchronous |
| - | 19S | 19.2 kbps, synchronous |
| - | 23A | Up to 230.4, asynchronous |
| - | 23S | 230.4 kbps, synchronous |
| - | 40S | 40.8 kbps, synchronous |
| - | 50A | Up to 50.0 kbps, asynchronous |
| - | 50S | 50.0 kbps, synchronous |
| WC - | | Wideband data interface at customer's end user POT |
| - | 18 | 18.75 kbps, synchronous |
| - | 19 | For 12-wire interface: 19.2 kbps, synchronous; for 10-wire interface: up to 19.2 kbps |
| - | 23 | Asynchronous up to 230.4 kbps |
| - | 23S | 230.4 kbps, synchronous |
| - | 40 | 40.8 kbps, synchronous |
| - | 59 | For 12-wire interface: 50.0 kbps, synchronous; for 10-wire interface: up to 50.0 kbps |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

| <u>Code</u> | <u>Option</u> | <u>Definition</u> |
|-------------|---------------|---|
| WD - | | Asynchronous wideband bandwidth interface at customer POT |
| - | 1 | Nominal passband from 300 to 18000 Hz |
| - | 2 | Nominal passband from 28000 to 44000 Hz |
| - | 3 | Nominal passband from 29000 to 44000 Hz |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.2 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

| <u>Value (ohms)</u> | <u>Code(s)</u> |
|---------------------|----------------|
| 110 | 0 |
| 150 | 1 |
| 600 | 2 |
| 900 | 3* |
| 135 | 5 |
| 75 | 6 |
| 124 | 7 |
| Variable | 8 |
| 100 | 9 |

* For those interface codes with a four-wire (4) transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the FCC Docket No. 20099 Settlement Agreement.

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0, or 4DS6 plus the speed options indicated below:

| <u>Interface Code and Speed Option</u> | <u>Nominal Bit Rate (Mbps)</u> | <u>Digital Hierarchy Level</u> |
|--|------------------------------------|------------------------------------|
| 4DS8-15 | 1.544 | DS1 |
| 4DS9-31 | 3.152 | DS1C |
| 4DS0-63 | 6.312 | DS2 |
| 4DS6-44 | 44.736 | DS3 |
| 4DS6-27 | 274.176 | DS4 |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, MT2, etc.), and the network channel codes that are used for various administrative purposes.

| <u>Service Designator Code</u> | <u>Network Channel Code</u> |
|--------------------------------|-----------------------------|
| MTC | MQ |
| MT1 | NT |
| MT2 | NU |
| MT3 | NV |
| TGC | NQ |
| TG1 | NW |

Continued

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

| <u>Service Designator Code</u> | <u>Network Channel Code</u> |
|--------------------------------|-----------------------------|
| TG2 | NY |
| VGC | LQ |
| VG1 | LB |
| VG2 | LC |
| VG3 | LD |
| VG4 | LE |
| VG5 | LF |
| VG6 | LG |
| VG7 | LH |
| VG8 | LJ |
| VG9 | LK |
| VG10 | LN |
| VG11 | LP |
| VG12 | LR |
| APC | PQ |
| AP1 | PE |
| AP2 | PF |
| AP3 | PJ |
| AP4 | PK |
| TVC | TQ |
| TV1 | TV |
| TV2 | TW |
| WA1 | WJ |
| WA1T | WQ |
| WA2 | WL |
| WA2A | WR |
| WA3 | WN |

Continued

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

Service Designator Code Network Channel Code

| | |
|------|----|
| WA4 | WP |
| WD1 | WB |
| WD2 | WE |
| WD3 | WF |
| DA1 | XA |
| DA2 | XB |
| DA3 | XG |
| DA4 | XH |
| HC0 | HS |
| HC1 | HC |
| HC1C | HD |
| HC2 | HE |
| HC3 | HF |
| HC4 | HG |

11.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

Continued

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11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|------|-----------------------|--------|
| 4AB2 | 4AB2 | | | | |
| 4AB2 | 4AC2 | 4AH5-B | 6DA2 | 4AH6-D | 2DY2 |
| 4AB3 | 4AC2 | 4AH5-B | 4DA2 | 4AH6-C | 9DY2 |
| 4AB2 | 4AC2 | 4AH5-B | 2DA2 | 4AHG-C | 9DY3 |
| 4AB3 | 4AC2 | 4AH6-C | 6DY3 | | |
| 2AB2 | 4AC2 | 4AH6-D | 4DE2 | 4AH6-C | 6DY3 |
| 2AB3 | 4AC2 | 4AH6-C | 4DE2 | 4AH6-C | 4DY2 |
| | | 4AH5-B | 4DE2 | 4AH6-C | 2DY2 |
| 4AB2 | 4SF2 | 4AH6-D | 2DE2 | 4AH5-B | 9DY2 |
| 4AB3 | 4SF2 | 4AH6-C | 2DE2 | 4AH5-B | 9DY3 |
| | | 4AH5-B | 2DE2 | 4AH5-B | 6DY2 |
| 4AH6-D | 4AC2 | 4AH5-B | 6DY3 | | |
| 4AH6-D | 2AC2 | 4AH6-D | 4DX3 | 4AH5-B | 4DY2 |
| 4AH6-C | 4AC2 | 4AH6-C | 4DX3 | 4AH5-B | 2DY2 |
| 4AH6-C | 2AC2 | 4AH5-B | 4DX3 | | |
| 4AH5-B | 4AC2 | 4AH6-D | 4DX2 | 4AH6-D | 9EA2 |
| 4AH5-B | 2AC2 | 4AH6-C | 4DX2 | 4AH6-D | 9EA3 |
| | | 4AH5-B | 4DX2 | 4AH6-D | 6EA2-E |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|------|-----------------------|--------|
| 4AH6-D | 2CT3 | | | 4AH6-D | 6EA2-M |
| | | | | 4AH6-D | 4EA2-E |
| 4AH6-C | 2CT3 | | | 4AH6-D | 4EA2-M |
| 4AH5-B | 2CT3 | | | 4AH6-C | 9EA2 |
| 4AH6-D | 6DA2 | | | 4AJ7-C | 9EA3 |
| 4AH6-D | 4DA2 | 4AH6-D | 9DY2 | 4AH6-C | 6EA2-E |
| 4AH6-D | 2DA2 | 4AH6-D | 9DY3 | | |
| 4AH6-C | 6DA2 | 4AH6-D | 6DY2 | | |
| 4AH6-C | 4DA2 | 4AH6-D | 6DY3 | | |
| 4AH6-C | 2DA2 | 4AH6-D | 4DY2 | | |
| 4AH6-C | 6EA2-M | 4AH6-D | 6GS2 | 4AH6-D | 2LO2 |
| 4AH6-C | 4EA2-E | 4AH6-D | 4GS2 | 4AH6-C | 2LO3 |
| 4AH6-C | 4EA2-M | 4AH6-D | 2GS3 | 4AH6-C | 2LO2 |
| 4AH5-B | 9EA2 | 4AH6-D | 2GS2 | 4AH5-B | 2LO3 |
| 4AH5-B | 9EA3 | 4AH6-C | 6GS2 | 4AH5-B | 2LO2 |
| 4AH5-B | 6EA2-E | 4AH6-C | 4GS2 | | |
| 4AH5-B | 6EA2-M | 4AH6-C | 2GS3 | 4AH6-B | 4LR2 |
| 4AH5-B | 4EA2-E | 4AH6-C | 2GS2 | 4AH6-D | 2LR2 |
| 4AH5-B | 4EA2-M | 4AH5-B | 6GS2 | 4AH6-C | 4LR2 |
| | | 4AH5-B | 4GS2 | 4AH6-C | 2LR2 |
| 4AH6-D | 8EB2-E | 4AH5-B | 2GS3 | 4AH5-B | 4LR2 |
| 4AH6-D | 8EB2-M | 4AH5-B | 2GS2 | 4AH5-B | 2LR2 |

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11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|------|-----------------------|--------|
| 4AH6-D | 6EB2-E | | | 4AH6-D | 6LS2 |
| 4AH6-D | 6EB2-M | 4AH6-D | 2LA2 | 4AH6-D | 4LS2 |
| 4AH6-C | 8EB2-E | 4AH6-C | 2LA2 | 4AH6-D | 2LS2 |
| 4AH6-C | 8EB2-M | 4AH5-B | 2LA2 | 4AH6-D | 2LS3 |
| 4AH6-C | 6EB2-E | | | 4AH6-C | 6LS2 |
| 4AH6-C | 6EB2-M | 4AH6-D | 2LB2 | 4AH6-C | 4LS2 |
| 4AH5-B | 8EB2-E | 4AHG-C | 2LB2 | 4AH6-C | 2LS2 |
| 4AH5-B | 8EB2-M | 4AH5-B | 2LB2 | 4AH6-C | 2LS3 |
| 4AH5-B | 6EB2-E | | | 4AH5-B | 6LS2 |
| 4AH5-B | 6EB2-M | 4AH6-D | 2LC2 | 4AH5-B | 4LS2 |
| | | 4AH6-C | 2LC2 | 4AH5-B | 2LS2 |
| 4AH6-D | 2GO2 | 4AH5-B | 2LC2 | | |
| 4AH6-D | 2GO3 | | | | |
| 4AH6-C | 2GO2 | | | | |
| 4AH6-C | 2GO2 | | | | |
| 4AH5-B | 2LS3 | | | | |
| 4AH5-B | 2GO2 | 4AH6-D | 2LO3 | | |
| 4AH5-B | 2GO3 | | | | |
| 4AH6-D | 4NO2 | 4AH6-D | 4TF2 | 2CT3 | 8EB2-E |
| 4AH6-D | 2NO2 | 4AJ7-D | 2TF2 | 2CT3 | 8EB2-M |
| 4AH6-C | 4NO2 | 4AH6-C | 4TF2 | | |
| 4AH6-C | 2NO2 | 4AH6-C | 2TF2 | 2CT3 | 6482-E |
| 4AH5-B | 4NO2 | 4AH5-B | 4TF2 | 2CT3 | 6EB2-M |
| 4AH5-B | 2NO2 | 4AH5-B | 2TF2 | | |

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11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| | | | 2CT3 | 2CT3 | 6EB3-E |
| | | | | | 4DS9 * |
| | | | | 2CT3 | 8EC2 |
| | | 2CT3 | 6DX2 | | |
| | | 2CT3 | 4DX2 | 2CT3 | 4SF2 |
| | | 2CT3 | 4DX3 | 2CT3 | 4SF3 |
| 4AH6-D | 4PR2 | 2CT3 | 9DY3 | 6DA2 | 6DA2 |
| 4AH6-D | 2PR2 | 2CT3 | 6DY3 | 6DA2 | 4DA2 |
| 4AH6-C | 4PR2 | 2CT3 | 9DT2 | 4DA2 | 4DA2 |
| 4AH6-C | 2PR2 | 2CT3 | 6DY2 | | |
| 4AH5-B | 4PR2 | 2CTS | 4DY3 | 4DB2 | 6DA2 |
| | | 2CT3 | 2DY2 | 4DB2 | 4DA2 |
| | | 4DB2 | 2DA2 | | |
| 4AH6-D | 4RV2-T | 2CT3 | 0EA3 | | |
| 4AH6-D | 2RV2-T | 2CT3 | 9EA2 | 2DB2 | 2DA2 |
| 4AH6-C | 4RV2-T | 2CT3 | 6EA2-E | 4DB2 | 4DB2 |
| 4AH6-C | 2RV2-T | 2CT3 | 6EA2-M | 4DB2 | 4NO2 |
| 4AH5-B | 4TV2-T | 2CT3 | 4EA2-E | 4DB2 | 2NO2 |
| 4AH5-B | 2RV2-T | 2CT3 | 4EA2-M | 2DB2 | 2NO2 |
| 4AH6-D | 4SF2 | | | 4DB2 | 4PR2 |
| 4AH6-C | 4SF2 | | | 4DB2 | 2PR2 |
| 2CT3 | 2DY2 | | | 4DB2 | 2PR2 |
| | 4DS8 * | | | | |
| | 4DY2 | | | | |
| | 6EB2-E | | | | |
| | 9DY2 | | | | |

* See 11.3 preceding for explanation.

Continued

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11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|--------|
| 4AH5-B | 4SF2 | 2DB2 | 2PR2 |
| 4AH6-D | 4SF3 | | |
| 4AH6-C | 4SF3 | | |
| 4AH6-B | 4SF3 | | |
| 4DD3 | 4DE2 | 4DS8 * | 9DY3 |
| 4DD3 | 2DE2 | 4DS8 * | 9DY2 |
| | | 4DS8 * | 6DY3 |
| 4DS8 * | 4AC2 | 4DS8 * | 6DY2 |
| 4DS8 * | 2AC2 | 4DS8 * | 4DY2 |
| | | 4DS8 * | 2DY2 |
| 4DS8 * | 6DA2 | | |
| 4DS8 * | 4DA2 | | |
| 4DS8 * | 2DA2 | 4DS8 * | 9EA2 |
| | | 4DS8 * | 9EA3 |
| 4DS8 * | 4DE2 | 4DS8 * | 6EA2-E |
| 4DS8 * | EDE2 | 4DS8 * | 6EA2-M |
| | | 4DS8 * | 4EA2-E |
| 4DS8 * | 4DX3 | | |
| 4DS8 * | 4DX2 | | |

* See 11.3 preceding for explanation

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 4DS8 * | 8EB2-E | 4DS8 * | 4NO2 | 4DX3 | 9DY2 |
| 4DS8 * | 8EB2-M | 4DS8 * | 2NO2 | 4DX2 | 6DY3 |
| 4DS8 * | 6EB2-E | | | 4DX3 | 6DY3 |
| 4DS8 * | 6EB2-M | 4DS8 * | 4PR2 | 4DX2 | 6DY2 |
| | | 4DS8 * | 2PR2 | 4DX3 | 6DY2 |
| 4DS8 * | 2GO2 | 4DX2 | 4DY2 | | |
| 4DS8 * | 2GO3 | 4DS8 * | 4RV2-T | 4DX3 | 4DY2 |
| 4DS8 * | 6GS2 | 4DS8 * | 2RV2-T | 4DX2 | 2DY2 |
| 4DS8 * | 4GS2 | | | 4DX3 | 2DY2 |
| 4DS8 * | 2GS2 | 4DS8 * | 4SF2 | | |
| 4DS8 * | 2GS3 | 4DS8 * | 4SF3 | 6DX2 | 9EA3 |
| | | | | 6DX2 | 9EA2 |
| 4DS8 * | 2LA2 | 4DS8 * | 4TF2 | 6DX2 | 6EA2-E |
| | | 4DS8 * | 2TF2 | 6DX2 | 6EA2-M |
| 4DS8 * | 2LB2 | | | 6DX2 | 4EA2-E |
| | | 4DX2 | 4DX2 | 6DX2 | 4EA2-M |
| 8DS8 * | 2LC2 | 4DX3 | 4DX2 | 4DX2 | 9EA2 |
| | | 4DX3 | 4DX3 | 4DX3 | 9EA2 |
| 4DS8 | 2LO2 | | 4DX2 | 9EA3 | |
| 4DS8 * | 2LO3 | 6DX2 | 9DY3 | 4DX3 | 9EA3 |

* See 11.3 preceding for explanation.

Continued

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11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| | | 6DX2 | 9DY2 | 4DX2 | 6EA2-E |
| 4DS8 * | 4LR2 | 6DX2 | 6DY3 | 4DX3 | 6EA2-E |
| 4DS8 * | 6LR2 | 6DX2 | 6DY2 | 4DX2 | 6EA2-M |
| | | 6DX2 | 4DY2 | 4DX3 | 6EA2-M |
| 4DS8 * | 6LS2 | 6DX2 | 2DY2 | 4DX2 | 4EA2-E |
| 4DS8 * | 4LS2 | 4DX2 | 9DY3 | 4DX3 | 4EA2-E |
| 4DS8 * | 2LS2 | 4DX3 | 9DY3 | 4DX2 | 4EA2-M |
| 4DS8 * | 2LS3 | 4DX2 | 9DY2 | 4DX3 | 4EA2-M |
| 6DX2 | 8EB2-E | 4DX2 | 6LS2 | 9DY2 | 6DY3 |
| 6DX2 | 8EB2-M | 4DX3 | 6LS2 | 9DY3 | 4DY2 |
| 6DX2 | 6EB2-E | 4DX3 | 4LS2 | 9DY2 | 4DY2 |
| 6DX2 | 6EB2-M | 4DX2 | 4LS2 | 9DY2 | 2DY2 |
| 4DX2 | 8EB2-E | 4DX3 | 2LS3 | 9DY3 | 2DY2 |
| 4DX2 | 8EB2-M | 4DX2 | 2LS3 | 6DY3 | 6DY3 |
| 4DX3 | 8EB2-E | 4DX3 | 2LS2 | 6DY3 | 6DY2 |
| 4DX3 | 8EB2-M | 4DX2 | 2LS2 | 6DY2 | 6DY2 |
| 4DX2 | 6EB2-E | 2DX3 | 2LS2 | 6DY3 | 4DY2 |
| 4DX2 | 6EB2-M | 2DX3 | 2LS3 | 6DT3 | 2DY2 |
| 4DX3 | 6EB2-E | | | 6DY2 | 4DY2 |
| 4DX3 | 6EB2-M | 4DX3 | 4RV2-T | 6DY2 | 2DT2 |
| | | 4DX2 | 4RV2-T | 4DY2 | 2DY2 |

* See 11.3 preceding for explanation.

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ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'D)

| (A) <u>Voice Grade</u> (Cont'd) | | | | | |
|---------------------------------|------|-----------------------|--------|-----------------------|--------|
| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
| 4DX2 | 2LA2 | 4DX3 | 2RV2-T | 4DY2 | 4DY2 |
| 4DX3 | 2LA2 | 4DX2 | 2RV2-T | | |
| 2DX3 | 2LA2 | | | 6EA2-E | 4AC2 |
| | | 6DX2 | 4SF2 | 6EA2-M | 4AC2 |
| 4DX2 | 2LB2 | 4DX2 | 4SF2 | 6EA2-E | 2AC2 |
| 4DX3 | 2LB2 | 4DX3 | 4SF2 | 6EA2-M | 2AC2 |
| 2DX3 | 2LB2 | 4DX2 | 4SF3 | | |
| | | 4DX3 | 4SF3 | 9EA2 | 9DY3 |
| | | | | | |
| 4DX2 | 2LC2 | | | 9EA2 | 9DY2 |
| 4DX3 | 2LC2 | 9DY3 | 9DY3 | 9EA2 | 6DY3 |
| 2DX3 | 2LC2 | 9DY3 | 9DY2 | 9EA2 | 6DY2 |
| | | 9DY2 | 9DY2 | 9EA2 | 4DY2 |
| 4DX2 | 2LO3 | 9DY3 | 6DY3 | 9EA2 | 2DY2 |
| 4DX3 | 2LO3 | 9DY3 | 6DY2 | 9EA3 | 9DY3 |
| 2DX3 | 2LO3 | 9DY2 | 6DY2 | | |
| 9EA3 | 9DY2 | 4EA2-M | 9DY2 | 4EA3-E | 9EA2 |
| 9EA3 | 6DY3 | 4EA2-M | 6DY3 | 4EA3-E | 9EA3 |
| 9EA3 | 6DY2 | 4EA2-M | 6DY2 | 4EA2-M | 4EA2-M |
| 9EA3 | 4DY2 | 4EA2-M | 4DY2 | | |
| 9EA3 | 2DY2 | 4EA2-M | 2DY2 | 9EA2 | 8EB2-E |

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11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|--------|-----------------------|--------|
| 6EA2-E | 9DY3 | | | 9EA2 | 8EB2-M |
| 6EA2-E | 9EA2 | 9EA2 | 9EA2 | 9EA2 | 6EB2-E |
| 6EA2-E | 6DY3 | 9EA2 | 9EA3 | 9EA2 | 6EB2-M |
| 6EA2-E | 6DY2 | 9EA2 | 6EA2-E | 9EA3 | 8EB2-E |
| 6EA2-E | 4DY2 | 9EA2 | 6EA2-M | 9EA3 | 8EB2-M |
| 6EA2-E | 2DY2 | 9EA2 | 4EA2-E | 9EA3 | 6EB2-E |
| 6EA2-M | 9DY3 | 9EA2 | 4EA2-M | 9EA3 | 6EB2-M |
| 6EA2-M | 9DY2 | 9EA3 | 9EA3 | 6EA2-E | 8EB2-E |
| 6EA2-M | 6DY3 | 9EA3 | 6EA2-E | 6EA2-E | 8EB2-M |
| 6EA2-M | 6DY2 | 9EA3 | 6EA2-M | 6EA2-E | 6EB2-E |
| 6EA2-M | 4DY2 | 9EA3 | 4EA2-E | 6EA2-E | 6EB2-M |
| 6EA2-M | 2DY2 | 9EA3 | 4EA2-M | 6EA2-M | 8EB2-E |
| 4EA2-E | 9DY3 | 6EA2-E | 6EA2-E | 6EA2-M | 8EB2-M |
| 4EA2-E | 9DY2 | 6EA2-E | 6EA2-M | 6EA2-M | 6EB2-E |
| 4EA3-E | 9DY3 | 6EA2-M | 6EA2-M | 6EA2-M | 6EB2-M |
| 4EA3-E | 9DY2 | 6EA2-E | 4EA2-E | 4EA2-E | 8EB2-E |
| 4EA3-E | 6DY3 | 6EA2-E | 4EA2-M | 4EA2-E | 8EB2-M |
| 4EA3-E | 6DY2 | 6EA2-M | 4EA2-E | 4EA3-E | 8EB2-E |
| 4EA3-E | 4DY2 | 6EA2-M | 4EA2-M | 4EA3-E | 8EB2-M |
| 4EA3-E | 2DY2 | 4EA2-E | 4EA2-E | 4EA2-E | 6EB2-E |
| 4EA2-E | 6DY3 | 4EA3-E | 6EA2-E | 4EA2-E | 6EB2-M |
| 4EA2-E | 6DY2 | 4EA3-E | 6EA2-M | 4EA3-E | 6EB2-E |
| 4EA2-E | 4DY2 | 4EA3-E | 4EA2-E | 4EA3-E | 6EB2-M |
| 4EA2-E | 2DY2 | 4EA3-E | 4EA2-M | 4EA2-M | 8EB2-E |
| 4EA2-M | 9DY3 | 4EA2-E | 4EA2-M | | |

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ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|------|-----------------------|--------|
| 4EA2-M | 8EB2-M | 9EA3 | 4SF2 | 6EB3-E | 9DY2 |
| 4EA2-M | 6EB2-E | 9EA2 | 4SF2 | 6EB3-E | 9DY3 |
| 4EA2-M | 6EB2-M | 6EA2-E | 4SF3 | 6EB2-E | 6DY2 |
| | | 6EA2-M | 4SF3 | 6EB3-E | 6DY2 |
| 6EA2-E | 2LA2 | 6EA2-E | 4SF2 | 6EB2-E | 6DY3 |
| 6EA2-M | 2LA2 | 6EA2-M | 4SF2 | 6EB3-E | 6DY3 |
| | | 4EA3-E | 4SF2 | 6EB2-E | 4DY2 |
| 6EA2-E | 2LB2 | 4EA2-E | 4SF2 | 6EB3-E | 2DY2 |
| 6EA2-M | 2LB2 | 4EA2-M | 4SF2 | 6EB3-E | 4DY2 |
| | | | | 6EB2-M | 9DY2 |
| 6EA2-E | 2LC2 | 8EB2-E | 4AC2 | 6EB2-M | 9DY3 |
| 6EA2-M | 2LC2 | 8EB2-M | 4AC2 | 6EB2-M | 6DY2 |
| | | 8EB2-E | 2AC2 | 6EB2-M | 6DY3 |
| 6EA2-E | 2LO3 | 8EB2-M | 2AC2 | 6EB2-M | 4DY2 |
| | | | | 6EB2-E | 2DY2 |
| | | 8EB2-E | 9DY3 | 6EB2-M | 2DY2 |
| 6EA2-E | 6LS2 | 8EB2-E | 9DY2 | | |
| 6EA2-M | 6LS2 | 8EB2-E | 6DY3 | 6EB3-E | 9EA2 |
| 6EA2-E | 4LS2 | 8EB2-E | 6DY2 | 6EB3-E | 9EA3 |
| 6EA2-M | 4LS2 | 8EB2-E | 4DY2 | 6EB3-E | 6EA2-E |
| 6EA2-E | 2LS2 | 8EB2-E | 2DY2 | 6EB3-E | 6EA2-M |
| 6EA2-M | 2LS2 | 8EB2-M | 9DY3 | 6EB3-E | 4EA2-E |
| 6EA2-E | 2LS3 | 8EB2-M | 9DY2 | 6EB3-E | 4EA2-M |
| 6EA2-M | 2LS3 | 8EB2-M | 6DY3 | | |

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ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 6EA2-E | 4RV2-T | 8EB2-M | 6DY2 | 8EB2-E | 8EB2-E |
| 6EA2-M | 4RV2-T | 8EB2-M | 4DY2 | 8EB2-E | 8EB2-M |
| 6EA2-E | 2RV2-T | 8EB2-M | 2DY2 | 8EB2-M | 8EB2-M |
| 6EA2-M | 2RV2-T | 6EB2-E | 9DY2 | 8EB2-E | 6EB2-E |
| 8EB2-M | 6EB2-E | 6EB2-E | 9DY3 | 8EB2-E | 6EB2-M |
| 8EB2-M | 6EB2-M | 8EB2-E | 4RV2-T | 8EC2 | 8EB2-M |
| 6EB2-E | 6EB2-E | 8EB2-M | 4RV2-T | 8EC2 | 6EB2-E |
| 6EB2-E | 6EB2-M | 8EB2-E | 2RV2-T | 8EC2 | 6EB2-M |
| 6EB2-E | 6EB2-M | 8EB2-M | 2RV2-T | | |
| 6EB3-E | 8EB2-E | | | 8EC2 | 4SF2 |
| 6EB3-E | 8EB2-M | 8EB2-E | 4SF2 | 6EX2-B | 2GO3 |
| 6EB2-M | 6EB2-M | 8EB2-M | 4SF2 | 6EX2-A | 6GS2 |
| | | 8EB2-E | 4SF3 | 6EX2-A | 4GS2 |
| 8EB2-E | 2LA2 | 8EB2-M | 4SF3 | 6EX2-A | 2GS2 |
| 8EB2-M | 2LA2 | 6EB3-E | 4SF2 | 6EX2-A | 2GS3 |
| | | 6EB2-E | 4SF2 | | |
| 8EB2-E | 2LB2 | 6EB2-M | 4SF2 | 6EX2-B | 2LA2 |
| 8EB2-M | 2LB2 | | | | |
| | | 8EC2 | 9DY2 | 6EX2-B | 2LB2 |
| 8EB2-E | 2LC2 | 8EC2 | 9DY3 | | |
| 8EB2-M | 2LC2 | 8EC2 | 6DY2 | 6EX2-B | 2LC2 |

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ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|--------|-----------------------|------|
| 8EB2-E | 2LO3 | 8EC2 | 6DY3 | 6EX2-B | 2LO2 |
| 8EB2-M | 2LO3 | 8EC2 | 4DY2 | 6EX2-B | 2LO3 |
| 8EB2-E | 6LS2 | 8EC2 | 4DY2 | 6EX2-B | 4LR2 |
| 8EB2-M | 6LS2 | 8EC2 | 9EA2 | 6EX2-B | 2LR2 |
| 8EB2-E | 4LS2 | 8EC2 | 9EA3 | | |
| 8EB2-M | 4LS2 | 8EC2 | 6EA2-E | 6EX2-A | 6LS2 |
| 8EB2-E | 2LS2 | 8EC2 | 6EA2-M | 6EX2-A | 4LS2 |
| 8EB2-M | 2LS2 | 8EC2 | 4EA2-E | 6EX2-A | 2LS2 |
| 8EB2-E | 2LS3 | 8EC2 | 4EA2-M | 6EX2-A | 2LS3 |
| 8EB2-M | 2LS3 | 8EC2 | 8EB2-E | | |
| 6EX2-A | 4SF2 | 6LO2 | 6LS2 | 4LR2 | 4SF2 |
| 6EX2-B | 4SF2 | 6LO2 | 4LS2 | 4LR3 | 4SF2 |
| | | 6LO2 | 2LS2 | | |
| 6GO2 | 6GS2 | 6LO2 | 2LS3 | 6LS2 | 2LA2 |
| 6GO2 | 4GS2 | 4LO2 | 6LS2 | 4LS2 | 2LA2 |
| 6GO2 | 2GS2 | 4LO2 | 4LS2 | 4LS3 | 2LA2 |
| 6GO2 | 2GS3 | 4LO3 | 6LS2 | 2LS2 | 2LA2 |
| 4GO2 | 6GS2 | 4LO3 | 4LS2 | 2LS3 | 2LA2 |
| 4GO3 | 6GS2 | 4LO3 | 2LS3 | | |

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ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|------|-----------------------|------|-----------------------|------|
| 4GO2 | 4GS2 | 4LO3 | 2LS2 | 6LS2 | 2LB2 |
| 4G03 | 4GS2 | 4LO2 | 2LS2 | 4LS2 | 2LB2 |
| 4GO2 | 2GS2 | 4LO2 | 2LS3 | 4LS3 | 2LB2 |
| 4GO2 | 2GS3 | 2LO3 | 2LS3 | 2LS2 | 2LB2 |
| 4GO3 | 2GS2 | 2LO3 | 2LS2 | 2LS3 | 2LB2 |
| 4GO3 | 2GS3 | 2LO2 | 2LS2 | | |
| 2GO2 | 2GS2 | 2LO2 | 2LS3 | 6LS2 | 2LC2 |
| 2GO3 | 2GS2 | | | 4LS2 | 2LC2 |
| 2GO2 | 2GS3 | 6LO2 | 4SF2 | 4LS3 | 2LC2 |
| 2GO3 | 2GS3 | 4LO2 | 4SF2 | 2LS2 | 2LC2 |
| | | 4LO3 | 4SF2 | 2LS3 | 2LC2 |
| 6GO2 | 4SF2 | | | | |
| 4GO2 | 4SF2 | 4LR2 | 4LR1 | 6LS2 | 2LO3 |
| 4GO3 | 4SF2 | 4LR3 | 2LR2 | 6LS2 | 2LO2 |
| | | 4LR2 | 4LR2 | 4LS2 | 2LO2 |
| 6GS2 | 2GO2 | 4LR2 | 2LR2 | 4LS2 | 2LO3 |
| 4GS2 | 2GO2 | 2LR2 | 2LR2 | 4LS3 | 2LO2 |
| 4GS3 | 2GO2 | 2LR3 | 2LR2 | 4LS3 | 2LO3 |
| 4GS2 | 2GO3 | | | | |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 6GS2 | 4SF2 | 4SF3 | 9DY2 | 4SF3 | 2LA2 |
| 4LS3 | 4SF2 | 4SF2 | 9DY3 | | |
| | | 4SF3 | 6DY3 | 4SF2 | 2LB2 |
| 4NO2 | 6DA2 | | | 4SF3 | 2LB2 |
| 4NO2 | 4DA2 | 4SF2 | 6DY3 | | |
| 4NO2 | 2DA2 | 4SF3 | 6DY2 | 4SF2 | 2LC2 |
| 2NO2 | 2DA2 | 4SF2 | 4DY2 | 4SF3 | 2LC2 |
| | | 4SF3 | 4DY2 | | |
| 4NO2 | 4DE2 | 4SF3 | 2DY2 | 4SF2 | 2LO3 |
| 4NO2 | 2DE2 | 4SF2 | 2DY2 | 4SF3 | 2LO3 |
| 4NO2 | 4NO2 | 4SF3 | 9EA2 | 4SF2 | 2LR2 |
| 4NO2 | 2NO2 | 4SF3 | 9EA3 | 4SF3 | 4LR2 |
| 2NO2 | 2NO2 | 4SF3 | 4EA2-E | 4SF3 | 2LR2 |
| 2NO3 | 2NO2 | 4SF3 | 4EA2-M | | |
| | | | | 4SF3 | 5LS2 |
| 2NO3 | 2PR2 | 4SF3 | 6EB2-E | 4SF2 | 4LS2 |
| | | 4SF3 | 6EB2-M | 4SF3 | 4LS2 |
| 4RV2-O | 4RV2-T | 4SF3 | 2GO3 | 4SF2 | 2LS2 |
| 4RV2-O | 2RV2-T | 4SF3 | 6GS2 | 4SF2 | 2LS3 |
| | | 4SF2 | 6GS2 | 4SF3 | 2LS2 |
| | | | | 4SF3 | 2LS3 |
| 4RV2-O | 4SF2 | 4SF3 | 4GS2 | | |
| | | 4SF2 | 2GS2 | 4SF3 | 4RV2-T |
| 4SF2 | 4AC2 | 4SF2 | 2GS3 | 4SF2 | 4RV2-T |
| 4SF2 | 2AC2 | 4SF3 | 2GS2 | 4SF2 | 2RV2-T |
| | | 4SF3 | 2GS3 | 4SF3 | 2RV2-T |
| 4SF3 | 9DY3 | | | | |
| 4SF2 | 9DY2 | 4SF2 | 2LA2 | 4SF3 | 4SF3 |

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ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(A) Voice Grade (Cont'd)

Compatible CIs

| | |
|--------|---------|
| 4SF3 | 4SF2 |
| 4SF2 | 4SF2 |
| 4TF2 | 4TF2 |
| 4TF2 | 2TF2 |
| 2TF3 | 2TF2 |
| 4AC2 | 2AC2 |
| | 4AC2 |
| 4DS9 * | 4EA2-M |
| 4DS8 * | 4DG2 |
| 4DX3 | 6EB2-E |
| 4EA2-E | 8EABZ-E |
| 4EA3-E | 9EB2-M |
| 4GO2 | 2GO2 |
| | 2GO3 |
| 4GO3 | 2GO2 |
| 4GS | 2GS |
| | 2LS |
| | 4GS |
| | 4LS |
| 4SF2 | 6DY2 |
| 4LR3 | 4LR2 |
| 8GO2 | 2GO2 |

* See 11.3 preceding for explanation.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Digital Data

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|----------|-----------------------|----------|-----------------------|----------|
| 4DS8-15 | 4DU8-15+ | 4DS8-15 | 4DS8-15 | 6DU5-48 | |
| 4DS8-15 | 4DU8-24 | 4DS8-15 | 6DU5-56 | 4DU5-96 | 4DU5-96 |
| 4DS8-15 | 4DU8-48 | 4DS8-15 | 6DU5-96 | 6DU5-2 | 46DU5-24 |
| 4DS8-15 | 4DU8-56 | 4DU5-24 | 4DU5-24 | 6DU5-48 | 6DU5-48 |
| 4DS8-15 | 6DU5-96 | 4DU5-48 | 4DU5-48 | 6DU5-56 | 6DU5-56 |
| 4DS8-15 | 6DU5-24 | 4DU8-56 | 4DU5-56 | 6DU5-96 | 6DU5-96 |
| 4DS9-15B | 4DU5-64X | 4DS9-15 | 4DU5-19 | | |
| | | 4DS6-44A | 4DU5-64X | | |

+ Available only as a cross connect of two digital circuits at appropriate digital speeds at a Telephone Company hub.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(C) High Capacity

| <u>Compatible CIs</u> | | <u>Compatible CIs</u> | |
|-----------------------|----------------|-----------------------|-----------------|
| 4DS0-63 | 4DS0-63 | 4DS8-15 | 4DU8-8 |
| 4DS0-63 | 6DU8-A, B or C | 4DS8-15J | 6DU8-A |
| 4DS0-63 | 4DU8-A, B or C | 4DS8-15K | 4DU8-A |
| 4DS6-27 | 4DS6-27 | 4DS8-15K | 6DU8-B |
| 4DS6-27 | 6DU8-A, B or C | 4DS8-15K | 4DU8-B |
| 4DS6-27 | 4DU8-A, B or C | 4DS8-15K | 6DU8-C |
| 4DS6-44 | 4DS6-44 | 4DS8-15K | 4D78-C |
| 4DS6-44 | 6DU8-A, B or C | 4DS9-31 | 4DS9-31 |
| 4DS8-15 | 4DS8-15+ | 4DS9-31 | 6DU8-A, B or C |
| 4DS8-15 | 6DU8-B | 4DS9- | 4DU8-A, B or C |
| 4DS6-44A | 4DU5-19 | 4DU9-A., B or C | 4DU8-A., B or C |
| 4DS6-44A | 4DU5-64 | 4DS9-15B | 4DU5-64 |
| 4DS8-15 | 4DU8-8 | 4DU8-A., B or C | 4DU8-A., B or C |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.4 Wats Access Line Standard Transmission Specifications

11.4.1 Standard Two-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the
Expected Measured Loss (EML) is plus or minus 4.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz
frequency band relative to the loss at 1004 Hz is -3.0 dB to
+9.0 dB.

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the
route miles listed is less than:

| <u>Route Miles</u> | <u>C-Message Noise</u> |
|--------------------|------------------------|
| Less than 50 | 35 dBrnCO |
| 51 to 100 | 37 dBrnCO |
| 101 to 200 | 40 dBrnCO |
| 201 to 400 | 43 dBrnCO |
| 401 to 1000 | 45 dBrnCO |

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.4 Wats Access Line Standard Transmission Specifications (Cont'd)

11.4.1 Standard Two-Wire Voice Transmission Specifications (Cont'd)

(D) Echo Control

Return Loss from both Echo Return Loss (ERL) and Singing Return Loss (SRL) is equal to or greater than:

| | |
|-----|--------|
| ERL | 6.0 dB |
| SRL | 3.0 dB |

(E) Standard Four-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -3.0 dB to +3.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -1.0 dB to +4.5 dB.

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.4 Wats Access Line Standard Transmission Specifications (Cont'd)

11.4.2 Standard Four-Wire Voice Transmission Specifications (Cont'd)

(C) C-Message Noise (Cont'd)

| <u>Route Miles</u> | <u>C-Message Noise</u> |
|--------------------|------------------------|
| Less than 50 | 35 dBrnCO |
| 51 to 100 | 37 dBrnCO |
| 101 to 200 | 40 dBrnCO |
| 201 to 400 | 43 dBrnCO |
| 401 to 1000 | 45 dBrnCO |

(D) Echo Control

The Equal Level Echo Path Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL) is equal to or greater than:

| | |
|-----|---------|
| ERL | 15.0 dB |
| SRL | 9.0 dB |

11.5 Wats Access Line Data Transmission Parameters

11.5.1 Signal to C-Notched Noise Ratio

The maximum Signal-to-C-Notched Noise Ratio is 30 dB.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.5 Wats Access Line Data Transmission Parameters (Cont'd)

11.5.2 Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands specified is:

| | |
|-------------------|-----------------|
| 1000 microseconds | 604 to 2804 Hz |
| 500 microseconds | 1000 to 2404 Hz |

11.5.3 Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBnCO threshold in 15 minutes is no more than 15 counts.

(A) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

| | |
|-------------------|-------|
| Second Order (R2) | 31 dB |
| Third Order (R3) | 34 dB |

11.5.4 Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.5 Wats Access Line Data Transmission Parameters (Cont'd)

11.5.5 Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

11.6 Wats Access Line Transmission Specifications

11.6.1 Improved Two-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 to +4.0 dB.

(B) Attenuation Distortion

The maximum Attention Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

Continued

ACCESS SERVICE

11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.6 Wats Access Line Transmission Specifications (Cont'd)

11.6.1 Improved Two-Wire Voice Transmission Specifications (Cont'd)

(C) C-Message Noise (Cont'd)

| <u>Route Miles</u> | <u>C-Message Noise</u> |
|--------------------|------------------------|
| Less than 50 | 35 dBrnCO |
| 51 to 100 | 37 dBrnCO |
| 101 to 200 | 40 dBrnCO |
| 201 to 400 | 43 dBrnCO |
| 401 to 1000 | 45 dBrnCO |

(D) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL) is equal to or greater than:

| | |
|-----|---------|
| ERL | 13.0 dB |
| SRL | 6.0 dB |

Continued

ACCESS SERVICE

12. Special Facilities Routing of Access Services

12.1 Description of Special Facilities Routing of Access Services

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

12.1.1 Diversity (USOC-SYD++)

Two or more services must be provided over not more than two different physical routes.

12.1.2 Avoidance (USOC-SYA++)

A service must be provided on a route which avoids specified geographical locations.

12.1.3 Cable-Only Facilities (USOC-SYC++)

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only Facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Continued

ACCESS SERVICE

12. Special Facilities Routing of Access Services (Cont'd)

12.1 Description of Special Facilities Routing of Access Services (Cont'd)

12.1.3 Cable-Only Facilities (USOC-SYC++)(Cont'd)

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6 preceding, Special Access Services as set forth in Section 7 preceding, and Special Federal Government Access Services as set forth in Section 8 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in Section 6 preceding; Voice Grade Special Access Services as set forth in Section 7 preceding and Special Federal Government Access Services as set forth in Section 8 preceding.

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services as set forth in 12.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

Continued

ACCESS SERVICE

12. Special Facilities Routing of Access Services (Cont'd)

12.2 Rates and Charges for Special Facilities Routing of Access Service (Cont'd)

The rates and charges for Special Routing of Access Services are as follows:

12.2.1 Diversity (USOC-SYD++)

For each service provided in accordance with 12.1.1 preceding, the rates and charges will be developed on an individual case basis.

12.2.2 Avoidance (USOC-SYA++)

For each service provided in accordance with 12.1.2 preceding, the rates and charges will be developed on an individual case basis.

12.2.3 Diversity and Avoidance Combined (USOC-SYB++)

For each service provided in accordance with 12.1.1 and 12.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

12.2.4 Cable-Only Facilities (USOC-SYC++)

For each service provided in accordance with 12.1.3 preceding, the rates and charges will be developed on an individual case basis.

Continued

ACCESS SERVICE

13. Coin Services

13.1 General

This section contains the rules and regulations pertaining to the provision of 1+ Coin Presubscription Service for the handling of 1+ interLATA sent-paid traffic from the Telephone Company's pay telephones.

13.2 Service Description

1+ Coin Presubscription Service provides the routing of 1+ interLATA sent-paid calls from Telephone Company pay telephones to the presubscribed 0+ Interexchange Carrier (customer) directly, to its designated secondary service provider, or to the default carrier, provided said carrier continues to accept such default traffic. The default carrier option will expire when the default carrier ceases to accept such traffic or when the presubscribed 0+ provider is able to handle such calls or route them to secondary service provider, whichever comes first. The customer has the following options:

- (1) to receive both 0+ and 1+ interLATA calls originated from Telephone Company pay telephones; or,
- (2) to receive the 0+ interLATA calls and select one secondary service provider per LATA to receive the 1+interLATA sent-paid traffic; or,
- (3) to receive the 0+ interLATA calls and continue to default the 1+interLATA sent-paid calls until the presubscribed 0+ provider is ready to handle (to receive both 0+ and 1+ interLATA calls or to receive 0+ interLATA calls and select a secondary service provider per LATA for 1+ interLATA calls) such calls.

Continued

ACCESS SERVICE

13. Coin Services (Cont'd)

13.2 Service Description (Cont'd)

The customer is solely responsible for all 0+ and 1+ interLATA calls originating from the Telephone Company pay telephone when it handles 1+ interLATA sent-paid traffic or selects a secondary service provider to handle the 1+ interLATA sent-paid calls.

The Telephone Company must receive written authorization from the customer prior to routing 1+ interLATA sent-paid calls to the selected secondary service provider. If the customer selects a secondary service provider to handle 1+ interLATA sent-paid traffic, any arrangements will be solely between the customer and its selected secondary service provider.

13.3 Service Provisioning

The Telephone Company will provide 1+ interLATA sent-paid access from equal access end offices to the customer's designated location via direct routed trunks from the end office or via the Traffic Operator Position System (TOPS) tandems. When the customer orders Modified Operator Services Signaling (MOSS) between a TOPS tandem and the customer's premises, the customer will be required to order a separate and final trunk group from the TOPS tandem to the customer's premises for each Numbering Plan Area (NPA) within a LATA to identify the coin originating NPA.

The Telephone Company will provide, where available, two types of call setup signaling from its pay telephone, MOSS and Exchange Access Operator Services System (EAOSS) signaling from the TOPS to the customer's premises. If the equal access end office is equipped with

Continued

ACCESS SERVICE

13. Coin Services (Cont'd)

13.3 Service Provisioning (Cont'd)

EAOSS functionality, MOSS or EAOSS signaling can be provided via direct trunking from the end office to the customer's premises at the customer's option. If the equal access end office is equipped with MOSS functionality, only MOSS will be provided for direct trunking from the end office to the customer's premises.

13.4 Collection and Remittance of Coin Station Monies

When the customer is provided Operator Trunk-Coin or Combined Coin and Non-Coined or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access as set forth in Section 6, the Telephone Company will collect sent-paid monies from pay telephone stations and will remit monies to the customer as set forth in 13.6.4. The Telephone Company will provide message call detail format and bill periods used to determine the monies upon request from the customer.

13.5 Provision of Message Call Detail Concerning Coin Station Monies

Where Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access is provided to the customer and the customer wishes to receive the monies it is due for the monies collected by the Telephone Company from coin pay telephone stations, the customer shall furnish to the Telephone Company, at a location specified by the Telephone Company, the customer message call detail for the customer sent-paid (coin) pay telephone calls in accordance with the Telephone Company collection

Continued

ACCESS SERVICE

13. Coin Services (Cont'd)

13.5 Provision of Message Call Detail Concerning Coin Station Monies (Cont'd)

schedule. The customer message call detail furnished shall be in a standard format established by the Telephone Company. The Telephone Company will provide to the customer the precise details of the required standard format. If, in the course of Telephone Company business, it is necessary to change the standard format, the Telephone Company will provide notification to the involved customer six months prior to the change. If no customer message call detail is received from the customer for each bill period established by the Telephone Company, the Telephone Company will assume there were no customer sent-paid (coin) pay telephone calls for the period. In addition the customer shall furnish a schedule of its charges for sent-paid (coin) calls to the Telephone at a location and date as specified by the Telephone Company. Any change in the customer's schedule of charges shall be furnished to the Telephone Company one day after the change becomes effective.

13.6 Payment of Coin Sent-Paid Monies

The Telephone Company will collect the monies from coin pay telephone stations and will determine and remit amounts due to a customer which is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features from sent-paid pay telephone access as set forth in Section 6 as follows:

Continued

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies (Cont'd)

13.6.1 Bill Period Coin Revenue

The Telephone Company will establish a collection schedule for each coin pay telephone station and will collect the monies from the coin pay stations based on this collection schedule. The monies collected based on this schedule during each bill period established by the Telephone Company will be identified by coin pay telephone station and summed to develop the Bill Period Coin Revenue for each coin record day (i.e., the day a record is prepared and dated to show the amount due the customer).

13.6.2 Total Customer Coin Revenue

The intrastate Total Customer Coin Revenue will be determined by the Telephone Company based on the customer message call detail received from the customer for each bill period and the customer's schedule of charges for sent-paid coin calls. Such Total Customer Coin Revenue will be developed each coin record day.

13.6.3 Recourse Adjustments

For each coin record day, the Telephone Company will subtract from the Total Customer Coin Revenue an amount for coin station shortages. Coin Station shortages are amounts resulting from unauthorized calling at coin pay telephone stations, use of unauthorized coins, (i.e., foreign coins, slugs

Continued

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies (Cont'd)

13.6.3 Recourse Adjustments (Cont'd)

and improper use of U.S. pennies), unauthorized removal of coins from coin pay telephone stations and coin refunds beyond the Telephone Company's control. Such amounts for coin station shortages will be developed by the Telephone Company by multiplying the Total Customer Coin Revenue for each coin record day by a shortage factor. Such amount will be rounded to the nearest penny. The shortage factor will be determined by dividing the yearly total coin shortages amount by the yearly total coin revenue amount (i.e., total coin revenue equals the coin revenue due under exchange tariffs, state toll tariffs, and intrastate toll tariffs). The total coin shortage amount and the total revenue amount will be determined by the Telephone Company through an annual special study.

13.6.4 Payment of Net Customer Coin Revenue

The Telephone Company will determine the Net Customer Coin Revenue for each coin record day by subtracting from the Total Customer Coin Revenue determined as set forth in 13.6.2 preceding the amount for coin station shortages determined as set forth in 13.6.3 preceding. On the date (payment date) determined by adding 45 days to the coin record day, the Telephone Company will remit payment to the customer for the Net Customer Coin Revenue.

Continued

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies (Cont'd)

13.6.5 Audit Provisions

Upon reasonable written notice by the customer to the Telephone Company, the customer shall have the right through its authorized representative to examine and audit, during normal business hours and at reasonable intervals as determined by the Telephone Company, all such records and accounts as may under recognized accounting practices contain information bearing upon the determination of the amount payable to the customer. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

All information received or reviewed by the customer or its authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

Continued

ACCESS SERVICE

14. Billing and Collection Services

14.1 General

14.1.1 Service Offerings

Billing and Collection Services are available in the following categories:

- (A) Billing and Collection Services
- Call Recording Service
 - Message Processing Service
 - Assembly and Editing Service
 - Call Record Provision Service
 - Message Bill Processing Service
 - Bill Rendering Service
 - Message Investigation Service
 - Citizens Billing Services #1
 - Citizens Billing Services #2 Service
 - Program Development
 - Inquiry Service

Regulations, rates and charges as follows apply to Billing and Collection Services and shall not serve as a substitute for customer tariff offerings of services to end users. The provision of such Billing and Collection Services by the Telephone Company, as set forth following, does not constitute a joint undertaking with the customer for the furnishing of any service.

Any party to a Billing and Collection agreement is required to fully comply with TRA Rule 1220-4-2-.58. (N)
(N)

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.1 Service Offerings (Cont'd)

The Telephone Company's undertaking to provide Billing and Collection Services is made only in conjunction with intrastate services offered within its operating territory.

The regulations, rates and charges contained herein are in addition to the applicable regulations, rates and charges specified in other sections of this tariff and in other tariffs of the Telephone Company which are referenced herein.

14.1.2 Regulations

(A) Undertaking of the Telephone Company

(1) Provision of Billing and Collection Services

- (a) The Telephone Company, to the extent Ancillary Service are, or can be made available with reasonable effort, will provide to the customer Billing and Collection Services as described in 14.1.3, at rates and charges as specified in 14.1.5.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(1) Provision of Billing and Collection Services (Cont'd)

- (b) When the customer subscribes to Call Recording Service, as set forth in 14.1.3(A)(1), and customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer messages and associated revenue based on previously known values determined from historical data. In such events the extent of the Telephone Company's liability for damages shall be limited to the granting of a corresponding credit adjustment on the customer's bill representing amounts due to the customer for the unbilled revenue.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(1) Provision of Billing and Collection Services (Cont'd)

(b) (Cont'd)

When the Telephone Company is notified that, due to error or omission, incomplete data has been provided to a customer, the Telephone Company will make every reasonable effort to locate and/or recover the data and provide new magnetic tapes to the customer at no additional charge. Such request to recover the data must be made within 30 days from the date the details were initially made available to the customer. If the data cannot be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in the preceding paragraph.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(1) Provision of Billing and Collection Services (Cont'd)

(c) The Telephone Company shall be responsible for contacts and arrangements with the end user concerning the billing, collecting, crediting and adjusting of the customer's service charges, when the Telephone Company provides Inquiry Service as set forth in 14.1.3(A)(11).

(d) Message Bill Processing, Bill Rendering, Citizens Billing Services #1 Service, Citizens Billing Services #2 and Inquiry Services will only be offered by the Telephone Company with the purchase of receivables. The Telephone Company will purchase the customer's receivables at a discount from face value. The exact contents of the discount factor and specific settlement procedures will be contained in individual contractual arrangements signed by each customer.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(1) Provision of Billing and Collection Services (Cont'd)

(e) No alternate operator service (AOS) provider or other toll carrier shall be permitted to subscribe to the local company's billing and collection services unless the AOS provider or toll carrier submits certified evidence that:

- the carrier has established an account with the end user being billed; or
- the carrier is substantially engaged in the business of selling telephone services directly to account holders and, to the extent it provides service to other customers, such service is providing under the same terms and conditions as service to account holders.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(2) Discontinuance and Refusal of Billing and Collection
Services

- (a) If the customer or AOS provider fails to comply with the provisions of this tariff or repeated violations of paragraph 14.1.2(A)(1) (e), including any payments to be made by it on the dates or at the times herein specified, and fails within thirty (30) days after written notice via certified mail from the Telephone Company to an officer of the customer requesting payment for such noncompliance, the Telephone Company may discontinue the provision of the Ancillary Service. In case of such discontinuance, all applicable charges shall immediately become due.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(2) Discontinuance and Refusal of Billing and Collection
Services (Cont'd)

- (b) If the customer repeatedly fails to comply with the provisions of this tariff in connection with the provision of Billing and Collection Services and fails to correct such course of action after notice as set forth in (a) preceding, the Telephone Company may refuse applications for additional Billing and Collection Services.

(B) Obligations of the Customer

(1) References to the Telephone Company

The customer may advise end users that Billing and Collection Services are provided by the Telephone Company in connection with the service the customer furnishes to its end users.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(A) Undertaking of the Telephone Company (Cont'd)

(2) Request for Service

(a) Minimum Order Periods

The customer shall order Ancillary Service(s) with the following minimum requirements:

The minimum period for which Call Recording Service is provided and for which charges apply is one month (30 days). A customer may cancel Call Recording Service on any date prior to the start of the next month's service. If written notice is not received from the customer, or from the telephone company that ordered the Call Recording Service prior to the start of the following month's service, the Telephone Company shall assume that the service is to be extended for another month (30 days).

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(B) Obligations of the Customer (Cont'd)

(2) Request for Service (Cont'd)

(a) Minimum Order Periods (Cont'd)

The initial minimum period of Message Processing, Message Bill Processing, Bill Rendering, Citizens Billing Services #1, Citizens Billing Services #2 and Inquiry Services is three years. Six months prior to the end of the initial order period or subsequent extension, the customer shall notify the Telephone Company in writing, if the service is to be discontinued. If no notice is received from the customer, the Telephone Company shall assume that the service is extended for another year.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(B) Obligations of the Customer (Cont'd)

(2) Request for Service (Cont'd)

(b) Order Requirements

When Call Recording Service is ordered, the customer shall furnish the Telephone Company an estimate of the number of messages (message capacity) to be recorded. When Call Recording Service is provided from an end office switch, the estimate of the number of messages to be recorded shall be provided by end office. When Call Recording Service is provided from an access tandem, the estimate of the number of messages to be recorded shall be provided by access tandem. The message capacity shall be provided by year.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(B) Obligations of the Customer (Cont'd)

(2) Request for Service (Cont'd)

(b) Order Requirements (Cont'd)

When Message Processing Service is ordered, the customer shall furnish the Telephone Company an estimate of the number of messages (message capacity) to be processed. The number of messages shall be provided by year.

When Message Bill Processing, Message Investigation, Citizens Billing Services #1, Citizens Billing Services #2 and Inquiry Services are ordered for MTS/WATS services, the customer shall furnish the Telephone Company an estimate of the number of messages (message capacity) to be billed. The message capacity shall be provided by year. Separate estimates shall be furnished by the customer for MTS messages, bulk-billed messages (WATS/800 services) and invoice ready messages.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(B) Obligations of the Customer (Cont'd)

(2) Request for Service (Cont'd)

(b) Order Requirements (Cont'd)

When Bill Rendering Service is ordered, the customer shall furnish the Telephone Company an estimate of bills for which Bill Rendering Service will be provided. The bill capacity shall be provided by year. Separate estimates shall be furnished by the customer for MTS bills, bulk-billed (WATS/800) bills and invoice ready bills.

(C) Payment Arrangements

(1) Minimum Charges

(a) Call Recording, Message Processing, Message Bill Processing, Citizens Billing Services #1, Bulk-Billed, Citizens Billing Services #2 and Inquiry Services are subject to minimum charges.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(C) Payment Arrangements (Cont'd)

(1) Minimum Charges (Cont'd)

(b) Any minimum billings associated with the above services will be filed on an individual case basis.

(c) (Reserved for Future Use)

(2) Cancellation of Order for Billing and Collection Services

(a) When an order for Billing and Collection Services is canceled prior to the start of installation of such Billing and Collection Services, no charges will apply. Installation of Billing and Collection Services is considered to have started when the Telephone Company incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(C) Payment Arrangements (Cont'd)

(2) Cancellation of Order for Billing and Collection Services (Cont'd)

- (b) Where program development of Billing and Collection Services has been started prior to the cancellation, and to the extent the Telephone Company has another use for the specially developed Billing and Collection Services, no charge applies. When the Telephone Company has no other use for the specially developed Billing and Collection Services, a charge equal to the costs incurred prior to the date of cancellation applies. Such charge is determined as detailed in paragraph (c).
- (c) The charge, as specified in paragraph (b), includes the cost, less the net salvage value of equipment and material either ordered, provided or installed, plus the nonrecoverable cost of system development and installation. Charges will be determined on an individual case basis as required and will be specified in Section 20.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(C) Payment Arrangements (Cont'd)

(3) Acceptance of Gift Certificates

The Telephone Company will accept customer gift certificates for payment from end users, if the customer agreed in writing to redeem all such gift certificates.

(4) Minimum Period Disconnect Charges

Minimum period disconnect charges will apply, if service is discontinued prior to the expiration of the minimum period. For Call Recording Service, the Telephone Company will use the most recent 30 day period for which data is available to determine the total minimum monthly charge. The customer will only be billed for the adjusted amount due, if payment has been received for any portion of the discontinued service.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(C) Payment Arrangements (Cont'd)

(4) Minimum Period Disconnect Charges (Cont'd)

If, for Message Processing, Message Bill Processing, Bill Rendering, Citizens Billing Services #1, Citizens Billing Services #2 and Invoices Services, service is discontinued prior to the end of the period ordered, the customer will pay the minimum charges for the remaining months of the minimum order period specified in 14.1.2(B)(2)(a).

The monthly charge for Message Processing, Message Bill Processing, Bill Rendering, Citizens Billing Services #1, Citizens Billing Services #2 and Inquiry Services, will be one twelfth of the appropriate yearly message capacity (i.e., MTS service billed or bulk-billed capacity estimate) furnished by the customer as set forth above, times the appropriate Message Processing, Message Bill Processing, Bill Rendering, Citizens Billing Services #1, Citizens Billing Services #2 and Inquiry Services rate.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.2 Regulations (Cont'd)

(C) Payment Arrangements (Cont'd)

(5) Payment of Charges

When the Telephone Company purchases Call Recording from another telephone company and/or Message Processing Services from another telephone company or entity for a customer, the rates and charges for such services contained in this tariff are applicable.

(6) Customer's End User Deposits

When Bill Rendering, Citizens Billing Services #1 and Citizens Billing Services #2 Services are ordered, the Telephone Company will determine and collect a deposit from the customer's end user in accordance with the Telephone Company deposit regulations. The Telephone Company will provide the customer with a copy of its deposit regulations upon request.

14.1.3 Description of Billing and Collection Services

Billing and Collection Services consist of those functions provided in conjunction with Facilities for Intrastate Access (FIA) which the Telephone Company offers in other sections of this tariff. Billing and Collection Services are as follows:

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services

(1) Call Recording Service

The Telephone Company will provide Call Recording in Telephone Company suitably equipped end offices or tandems. Call recording is available only with FGC, FGD or similar Feature Group offerings, when used in the provision of MTS/WATS services. Call Recording is the entering on magnetic tape or other acceptable media the details of customer messages originated through Switched Access service or Switched Access-like service for which answer and disconnect supervision has been received. The Telephone Company will provide the customer, upon request, the recorded message detail, as agreed to by both parties, for each completed intrastate message generated by end users gaining access to the customer from the Access Area.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(1) Call Recording Service (Cont'd)

The equipment at the customer designated location shall provide such signals as may be required for the proper operation of the Telephone Company's automatic call recording equipment used to perform this function.

The Telephone Company may purchase Call Recording Service from another telephone company. Another telephone company or entity may purchase Call Recording Service-from the Telephone Company.

A standard format for the provision of the recorded message detail will be established by the Telephone Company. The Telephone Company will provide to the customer the precise details of the format. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will provide notification to the customer six months in advance of the change.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(2) Message Processing Service

Message Processing Service consists of the transformation of recorded customer message details into rated messages. Message Processing Service will be provided for each intrastate message generated by end users gaining access to the customer from the Access Area of the Telephone Company. Message Processing Service includes the following:

(a) Assembly of Message Detail

This function consists of arranging the customer's recorded message details into a format required for subsequent processing.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(2) Message Processing Service (Cont'd)

(b) Editing of Message Detail

This function consists of examining individual message details and identifying the messages with errors or the messages which require further examination.

(c) Rating of Messages

This function consists of calculating the charges for messages based on the customer's schedule of charges and the message detail.

The Telephone Company will provide Message Processing Service only for customer messages originated within the Access Area.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(2) Message Processing Service (Cont'd)

For the purpose of performing Message Processing Service, the Telephone Company may purchase Message Processing Service from another telephone company or entity as set forth in 14.1.2(C)(5). Another telephone company or entity may purchase Message Processing Service from the Telephone Company.

Where the customer provides its own message details, it must be in the standard format established by the Telephone Company. The Telephone Company will provide to the customer the precise details of the required format. If, in the course of Telephone Company business, it is necessary to change the format, the telephone company will provide notification to the customer six months in advance of the change.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(2) Message Processing Service (Cont'd)

Where the Telephone Company has rated customer messages which are to be billed to an end user by another telephone company or entity, the Telephone Company will enter the customer messages on a magnetic tape or data file and transmit the rated messages as set forth in 14.1.3(A)(4).

(3) Assembly and Editing Service

Assembly is the aggregation of recorded message details to create individual messages for rating. Editing is the process of verifying that the assembled message data is in accordance with the Telephone Company standard format and prescribed Exchange Message Interface (EMI) specifications.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(3) Assembly and Editing Service (Cont'd)

The editing function consists of examining individual message detail and identifying the messages with errors or the messages requiring further examination. The editing process includes the validation of data categories such as; but not limited to, the following:

- Called Telephone Number
- Calling Telephone Number
- Date

The assembled and edited recorded message detail will be provided to the customer as set forth in 14.1.3(A)(4)

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(4) Call Record Provision Service

Call Record Provision Service is the transmission and receipt of rated and unrated message data. It also includes the transmission of end user data as a result of customer generated activity (i.e., transmitting end user data during conversion activities, etc.)

The billing information and/or end user data may be transmitted or received on magnetic tape or other acceptable media via either of two principal methods:

- Hand carried recording media (i.e., magnetic tape).
- Direct interface (data link) to the Telephone Company billing center.

The Telephone Company will determine the number of magnetic tapes required to transmit message/record data to the customer, another telephone company or billing entity.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(5) Message Bill Processing Service

Message Bill Processing Service is the accumulation, guiding and preparation of messages (including the application of taxes), for end user bill rendering for MTS/WATS services.

Message-Billed Message Bill Processing Service is the accumulation, guiding, posting and formatting of rated message detail for bill rendering. The telephone company will process Calling Plans (i.e., Directory Assistance, Optional Calling Plans, Dial-It calls, etc.) that require the application of a discount to aggregate MTS usage as a part of its Message-Billed Message Bill Processing Service.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(5) Message Bill Processing Service (Cont'd)

Bulk-Billed Message Bill Processing Service is the accumulation, guiding and posting of rated message detail where the individual message detail is not provided on the bill rendered to the end user.

The rating may have been done by the Telephone Company, another entity, or the customer. Where a customer subscribes to Message Processing Service as set forth in 14.1.3(A)(2), the rated customer messages will be used as the input. If the customer provides the rated messages, the end user account to be billed shall be identified and the records shall be provided in the standard format established by the Telephone Company and delivered, as set forth in 14.1.3(A)(4) or 14.1.4(A)(13), to the location specified by the Telephone Company.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(5) Message Bill Processing Service (Cont'd)

If the customer provided rated messages must be converted by the Telephone Company to the standard format, and the Telephone Company agrees to make the conversion, program development charges as set forth in Section 20 apply for the hours required to design, develop, test and maintain the necessary programs. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will provide notification to the customer six months in advance of the change.

The Telephone Company will only provide Message Bill Processing Service when Bill Rendering Service and Record Keeping are ordered.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(5) Message Bill Processing Service (Cont'd)

The Message Bill Processing Service rate band will be determined by the Telephone Company for each customer based on the total number of interstate and intrastate messages per year.

(6) Bill Rendering Service

Bill Rendering Service is the printing and mailing of statements showing amounts due from end users for services provided by the customer. Bill Rendering Service includes payment and remittance processing, treatment, denial of service and collection of deposits (where appropriate) and other monies due from the end user. Bill Rendering Service is provided on a per bill basis.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(6) Bill Rendering Service (Cont'd)

When the Telephone Company provides Bill Rendering Service, the customer's statement of the amount due may, at Telephone Company option, be included as part of the regular monthly bill for local exchange service mailed to the end user.

The Telephone Company may, in accordance with its deposit regulations, determine and collect a deposit from the end user for the customer's services as set forth in 14.1.2(C)(6). When necessary, the Telephone Company, in accordance with its treatment procedures, shall deny the customer's services and/or local exchange services to an end user. Where local exchange service access is denied, access to the customer services will also be denied.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(6) Bill Rendering Service (Cont'd)

Bill Rendering Service will only be provided in conjunction with the purchase of a customer's receivables. The Telephone Company will not be responsible for any customer's balance due from end users prior to the initial order period.

The Telephone Company will only provide Bill Rendering Service when Message Bill Processing Service with Record Keeping is ordered or when Citizens Billing Service #2 is ordered.

The Bill Rendering Service rate band will be determined by the Telephone Company for each customer based on the total number of bills per year.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(7) Message Investigation Service

The Telephone Company will provide Message Investigation Service when requested by the customer. Message Investigation Service is that activity undertaken by the Telephone Company to secure, or attempt to secure proper billing information in an effort to sustain or recharge the customer's message. The Telephone Company will investigate, at the request of the customer, unbillable messages to correct message detail information to allow for the proper billing application.

The customer's request for Message Investigation Service shall identify the customer message, the date the customer message was billed and the amount of the customer message. Message Investigation Service is provided on a per message investigated basis.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(7) Message Investigation Service (Cont'd)

Message Investigation Service will be provided for each intrastate message generated by end users gaining access to the customer MTS/WATS services from the Access Area of the Telephone Company.

(8) Citizens Billing Services #1

Citizens Billing Services #1 Service includes the preparation of bills, mailing of the bills to the end users and the collection of deposits and monies due from the end users. Citizens Billing Services #1 Service also includes master file maintenance.

Citizens Billing Services #1 Service is provided on a per message billed basis (message-billed). The Telephone Company will process Calling Plan (i.e., Directory Assistance, Optional Calling Plans, Dial-It calls, etc.) that require the application of a discount to aggregate MTS usage as a part of its message-billed billing.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(8) Citizens Billing Services #1 (Cont'd)

When Citizens Billing Service #1 is ordered, the Telephone Company will accumulate, guide and post rated messages in preparation for billing (includes the application of taxes). The Telephone Company will also print and mail statements showing amounts due from end users for MTS services provided by the customer.

Collection Service provided to the customer will include receiving payments from the customer's end users, treatment of receivables, treatment of accounts, master file maintenance and collection of deposits (where appropriate) as set forth in 14.1.2(C) (6). When necessary, the Telephone Company, in accordance with its treatment procedures, shall deny the customer's services and/or local exchange services to an end user. Where local exchange service access is denied, access to the customer services will also be denied.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(8) Citizens Billing Services #1 (Cont'd)

The rating may have been done by the Telephone Company, another entity or the customer. Where the customer subscribes to Message Processing Service as set forth in 14.1.3(A)(2), the rated customer messages will be used as the input. If the customer or another entity provides the rated messages, the end user account to be billed shall be identified and the records shall be provided in the standard format established by the Telephone Company and delivered by the Telephone Company and delivered as set forth in 14.1.3(A)(4) or 14.1.4(A)(13).

Citizens Billing Services #1 Service will only be provided in conjunction with the purchase of a customer's receivables. The Telephone Company will not be responsible for any customer's balance due from end users prior to the initial order period.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(9) Citizens Billing Services #2

Citizens Billing Services #2 is the centralized receipt of invoice ready billing records for inclusion on the end user bill.

Citizens Billing Services #2 includes the preparation of bills, mailing of statements of the amount due for services provided by the customer, and the collection of deposits (where appropriate) and monies due from the customer's end users. Citizens Billing Services #2 also includes account establishment, maintenance of accounts, and treatment of accounts.

When the Telephone Company provides Citizens Billing Services #2, the customer shall rate its end users messages, calculate the taxes and the total amount (surcharges, discounts, allowances, recurring fees, etc.) to be billed for services it provided to its end users, prior to sending the invoice billing records to the Telephone Company.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(9) Citizens Billing Services #2 (Cont'd)

The customer's statement of the amount due may, at Telephone Company option, be included as part of the regular monthly bill for local exchange service mailed to the end user.

As a part of its treatment procedures, the Telephone Company shall have the final authority to make adjustments or deny service for disputed charges on the end user's account.

Citizens Billing Services #2 Service will only be provided in conjunction with the purchase of a customer's receivables. The Telephone Company will not be responsible for any customer's balance due from end users prior to the initial order period.

Call Record Provision charges, as set forth in Section 20.1.10, shall apply for the receipt of accepted messages and the return of rejected messages. Bill Rendering Charges as set forth in Section 20.1.10 shall apply for each bill rendered. In addition, the Citizens Billing Services #2 Charge as set forth in Section 20.1.10 shall apply.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(10) Program Development Service

Program Development Service consists of developing the customer's schedule of rates into a rating program and changing the bill format when requested by the customer.

Program Development Service also includes converting message data, transmitted to the Telephone Company by the customer or another entity, into the Telephone Company standard format for processing.

A Program Development Charge, as set forth in Section 20.1.10, applies for the programming hours required for software designing and coding.

A Program Implementation Charge applies for table updating, testing, administration, documenting program changes and other implementation activities.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(10) Program Development Service (Cont'd)

Changes in the rate levels of customer charges to be billed will normally be implemented within 30 days after receipt of an order from the customer requesting such change. When modification to the rating program is required, a Program Development Charge will also apply. Changes in rate structure will normally be completed within six months of a customer's order.

The complexity of the structural change will determine the exact length of time necessary to fulfill the request. Rate structure changes will be made only when the Telephone Company can accommodate such changes.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(11) Inquiry Service

Inquiry Service consists of answering end user questions about charges billed for the customer's services, applying credits and adjustments to end user accounts, and reviewing messages removed from end user bills.

When the Telephone Company provides Inquiry Service, the Telephone Company will be responsible for contacts and arrangements (either written or oral) with the customer's end users concerning the billing, collecting, crediting, adjusting and message investigation of the customer's service charges in accordance with written instructions furnished by the customer and agreed to by the Telephone Company. Billed messages removed from an end user's bill will be appropriately adjusted to the customer's account receivable as agreed to by both parties.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(11) Inquiry Service (Cont'd)

The Telephone Company will not become involved in disputes between a customer and its end users. Consequently, utilizing Telephone Company guidelines previously established for the collection process for its own accounts, the Telephone Company may remove a disputed customer's charge from an end user's bill and deduct that amount from the customer's accounts receivable. It will be the customer's responsibility to pursue the collection of the disputed amount.

The Telephone Company shall have the final authority to make adjustments or deny service for disputed charges on end users accounts.

Inquiry Service will only be provided in conjunction with the purchase of a customer's receivables. The Telephone Company will not be responsible for any customer's balances due from end users prior to the initial order period.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.3 Description of Billing and Collection Services (Cont'd)

(A) Billing and Collection Services (Cont'd)

(11) Inquiry Service (Cont'd)

Inquiry Service will only be provided when Message Bill Processing or Citizens Billing Services #1 is ordered. Inquiry Service will only be provided in the Telephone Company operating territory.

Inquiry Service consists of a bifurcated rate structure, a per message billed rate and a per adjustment rate.

14.1.4 Rate Regulations

(A) Billing and Collection Services

- (1) Call Recording Service for MTS/WATS services includes the functions listed in 14.1.3(A)(1). The rate, as set forth in Section 20.1.10, applies per message recorded.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

- (2) Message Processing Service for MTS/WATS services includes the functions listed in 14.1.3(A)(2). The rate, as specified in Section 20.1.10, applies per message processed. In those locations where WATS services are metered, or the billing record is summarized by another telephone company, the Message Processing rate, as set forth in Section 20.1.10, will apply per billing record processed. For rating purposes, a billing record is defined as any record which is required to be processed to accomplish billing of a customer's WATS usage.
- (3) Assembly and Editing Service for MTS/WATS services consists of the functions listed in 14.1.3(A)(3). The rates, as specified in Section 20.1.10, applies per message assembled and edited.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

(4) When message detail is transmitted to or received from the customer, another telephone company or billing entity, a Call Record Provision charge will apply. For this purpose, a record is a logical grouping of information as described in the program that processes the information and loads the magnetic tape or data file. The rate, as specified in Section 20.1.10, applies per record transmitted or received. The Telephone Company will determine the Call Record Provision charge based on its count of the records transmitted or received.

(5) The Message Bill Processing Service charge applies whenever the Telephone Company performs the functions listed in 14.1.3(A)(5). The rate for Message Bill Processing Service shall be the rate corresponding to the Message Bill Processing Service rate for such volume of messages as set forth in Section 20.1.10 on a calendar year basis. As used in this tariff, the term calendar year shall mean the period from January 1 through December 31 (both dates)

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

(5) (Cont'd)

inclusive) of a given year. The Message Bill Processing Service rate band will be determined by the Telephone Company for each customer based on the total number of interstate and intrastate messages per year.

The Telephone Company will use the customer provided message capacity to determine the band and its associated rate the first year of the initial minimum period. During the first quarter of the next year, the customer and the Telephone Company will determine the actual volume of messages for which the Telephone Company performed Message Bill Processing Service. Such actual volumes shall be compared to the Message Bill Processing Service bands as set forth in Section 20.1.10 to determine which band such actual volume of messages fall. If the actual volume is greater than or less than customer provided message

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

(5) (Cont'd)

capacity, the actual volume will be multiplied by the appropriate band rate and compared to the billed volume to determine either a charge or credit. This charge or credit will be applied to the customer's subsequent bill.

For each year thereafter, the Telephone Company and the customer shall utilize the previous year's actual volume of messages and the customer provided message capacity in an effort to determine the appropriate band for the next calendar year. In the first quarter of each year, the procedure described in the previous paragraph will be followed.

The rate, as specified in Section 20.1.10 applies per message processed. The bulk-billed Message Bill Processing Service charge applies per WATS/800 message processed.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

- (6) Bill Rendering Service includes the functions listed in 14.1.3(A)(6). The rate for Bill Rendering shall be the rate corresponding to the Bill Rendering Service rate for such volume of bills for a particular Telephone Company Billing service as set forth in Section 20.1.10 on a calendar year basis. As used in this tariff, the term calendar year shall mean the period from January 1 through December 31 (both dates inclusive) of a given year. The Bill Rendering Service rate band is determined by the Telephone Company for each customer based on the total number of bills per year.

The Telephone Company will use the customer provided bill capacity to determine the band and its associated rate the first year of the initial minimum period. During the first quarter of the next year, the customer and the Telephone Company will determine the actual volume of bills for which the Telephone Company performed Bill Rendering Service. Such actual

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

(6) (Cont'd)

volumes shall be compared to the Bill Rendering Service bands as set forth in Section 20.1.10 to determine which band such actual volume of bills fall. If the actual volume is greater than or less than the customer provided bill capacity, the actual volume will be multiplied by the appropriate band rate and compared to the billed volume to determine either a charge or credit. This charge or credit will be applied to the customer's subsequent bill.

For each year thereafter, the Telephone Company and the customer shall utilize the previous year's actual volume of bills and the customer provided bill capacity in an effort to determine the appropriate band for the next calendar year. In the first quarter of each year, the procedures described in the previous paragraph will be followed.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

(6) (Cont'd)

The rate, as specified in Section 20.1.10 applies per bill rendered. A factor, based on actual interstate and intrastate billed-messages, will be used by the Telephone Company to apportion the Bill Rendering charge by jurisdiction.

(7) Message Investigation Service consists of the functions listed in 14.1.3(A)(7). The rate, as specified in Section 20.1.10, applies per message investigated by the Telephone Company.

(8) Citizens Billing Services #1 Service consists of the functions listed in 14.1.3(A)(8). The rate, as set forth in Section 20.1.10, applies per message.

(9) Citizens Billing Services #2 Service consists of the functions listed in 14.1.3(A)(8). The rates, as set forth in Section 20.1.10, apply per message per bill.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

- (10) A Record Keeping Charge applies for each end user account maintained by the Telephone Company for the customer. An end user account is a record which has a name and address and a unique billing identification number assigned by the Telephone Company to which a bill is rendered. The Record Keeping Charge, as specified in Section 20.1.10, applies per month for each account and/or line maintained. A factor, based on actual interstate and intrastate billed messages, will be used to apportion the Record Keeping charge by jurisdiction.
- (11) An Exchange Carrier Memorandum (EC Memo) charge will be assessed each time the customer requests a manual adjustment to an end user account. The EC Memo charge, as specified in Section 20.1.10, applies per account adjusted per memo. When necessary, a factor (based on actual interstate and intrastate adjusted messages) will be used to apportion the EC Memo charge by jurisdiction.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

- (12) A Service Order Change Charge applies whenever a billing service order is accepted by the Telephone Company to update (i.e., add, change or delete) its billing file to implement the requested activity. The Service Order Change Charge, as set forth in Section 20.1.10, applies per order processed.
- (13) A Centralized Message Dispersion charge will apply when the Telephone Company provides a single point for the receipt of customer message data. The Telephone Company will receive, edit, sort, disperse and confirm the number of accepted billable messages and the total amount due the customer for services provided to its end users. In addition, the rated and/or unrated message data is dispersed to the appropriate location for further processing and/or billing. The rates, as set forth in Section 20.1.10 will apply per message processed. Call Record Provision charges, as set forth in Section 20.1.10 will apply for the receipt of each billable message and the transmission of each unbillable message. This charge does not apply to Citizens Billing Services #2.

Continued

ACCESS SERVICE

14. Billing and Collection Services (Cont'd)

14.1 General (Cont'd)

14.1.4 Rate Regulations (Cont'd)

(A) Billing and Collection Services (Cont'd)

(14) (Reserved for Future Use)

(15) Inquiry Service includes the functions listed in 14.1.3(A)(11). Inquiry Service consists of a bifurcated rate structure, a per message billed and a per adjustment rate. The Inquiry Service per message billed rate applies for each customer message billed by the Telephone Company. The per message adjustment rate applies for each occurrence of an adjustment made to an end user bill (account).

A PIU factor will be used by the Telephone Company to apportion the message adjustment rate by jurisdiction.

Continued

ACCESS SERVICE

15. (RESERVED)

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

16. (RESERVED)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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17. (RESERVED)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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18. (RESERVED)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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19. (RESERVED)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges

Rates and charges for Access Services set forth below apply to all of the Issuing Carriers set forth on Title Pages 1 and 2 preceding.

20.1 Citizens Telecommunications Companies - CTC of Tennessee

20.1.1 Carrier Common Line

Regulations concerning Carrier Common Line Access Service are set forth in Section 3 preceding.

Premium Access

| | | |
|--|--------------|--------|
| Originating, per Access Minute - non 800/888 | \$0.00000000 | (C)(R) |
| Originating, per Access Minute - 800/888 | \$0.00000000 | (N) |

| | |
|---|----|
| Terminating, per Access Minute | 0 |
| Intrastate Telecommunications Relay Service Adjustment | 0* |
| Total Terminating, per Access Minute | 0* |

* Effective January 1, 2015

RATES ON THIS PAGE ARE FOR CTC OF TENNESSEE

Continued

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.2 End User Access Service

Regulations concerning End User Common Line (EUCL) are set forth in Section 4 preceding.

| <u>End User Common Line (EUCL) - Business</u> | <u>Per Month</u> |
|---|------------------|
| Multi-Line, including Centrex CO and CO-Like Service, per each individual line or trunk | N/A |
| Single-Line, each individual line or trunk | N/A |
| <u>End User Common Line (EUCL) - Residence</u> | |
| Single-Line, each individual line or trunk | N/A |
| Centrex CO and CO-like Dormitory Service, each individual line or trunk installed | N/A |

RATES ON THIS PAGE ARE FOR CTC OF TENNESSEE

Continued

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.3 Access Ordering

Regulations concerning Access Ordering are set forth in Section 5 preceding.

| | <u>Nonrecurring USOC</u> | <u>Charge</u> |
|-----------------------------------|------------------------------|---------------|
| <u>Service Date Change Charge</u> | | |
| - Per Order | OMC, SUM | N/A |
| <u>Design Change Charge</u> | | |
| - Per Order | H28 | \$33.74 |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service

Regulations concerning Switched Access are set forth in Section 6 preceding.
Exceptions to the switched access rates listed in the Telephone Company's interstate
tariff are as follows:

(D)
(D)

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service (Cont'd)

(D)

(D)

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service (Cont'd)

(D)

(D)

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Frontier Communications
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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service (Cont'd)

(D)

(D)

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service (Cont'd)

(D)

(D)

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service (Cont'd)

(D)

(D)

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.4 Switched Access Service (Cont'd)

(D)

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service

Regulations concerning Special Access are set forth in Section 7 preceding.

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|-------------------------------------|-------------|-------------------------|--------------------------------|
| <u>Nonrecurring Charges</u> | | | |
| (A) Special Access Ordering Charges | | | |
| (1) Initial Ordering Charges | SESCL | | \$69.92 |
| (B) Service Installation Charge | | | 157.92 |
| (C) Design Change Charge | H28 | | 14.99 |
| <u>Voice Grade Service</u> | | | |
| <u>Channel Termination</u> | | | |
| per Termination | | | |
| Two-Wire | EUC2X | \$70.02 (I) | |
| Four-Wire | EUC4X | 50.82 | |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.5 Special Access Service (Cont'd)

Voice Grade Service (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|---|------------------|---------------------|----------------------------|
| <u>Channel Mileage</u> | | | |
| Channel Mileage Facility, per Mile | 1LFSX 1LFSXMP | \$0.89 | |
| Channel Mileage Termination, per Termination | TRG TRGVGDDS | 106.19 (I) | |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

Voice Grade Service (Cont'd)

| <u>Optional Features and Functions</u> | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|---|--------------|-------------------------|--------------------------------|
| Central Office Bridging Capability Two-Wire or Four Wire, per Port | | | |
| Data | BCND2, BCND4 | 8.79 (I) | 129.67 |
| Voice | BCNV2, BCNV4 | 9.71 (I) | 127.81 |
| Conditioning, per Termination | | | |
| - C Type | X1CPT | 1.74 (I) | 76.72 |
| - Data Capability | XDCPT | 2.27 (I) | 101.43 |
| Improved Return Loss for Effective Two-Wire or Four-Wire Transmission per Termination | 1RL2W, 1RL4W | 3.73 (I) | 87.59 |
| Signaling Capability, per Termination | | | |
| - E&M to Loop | OSD | 12.94 (I) | 102.17 |
| Improved Termination Option, per Termination | X4T | 13.05 (I) | 92.88 |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

| <u>Citizens Digital Network USOC</u> | | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|---|--------------|---------------------|----------------------------|
| <u>Channel Termination</u> per termination | TMECS | | |
| 2.4 kbps | EUCXX LCH | \$150.57 (I) | \$144.49 |
| 4.8 kbps | EUCXX LCH | 150.57 (I) | 144.49 |
| 9.6 kbps | EUCXX LCH | 150.57 (I) | 144.49 |
| 19.2 kbps | EUCXX LCH | 150.57 (I) | 144.49 |
| 56.0 kbps | EUCXX LCH | 150.57 (I) | 144.49 |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

Citizens Digital Network (Cont'd)

| <u>Channel Mileage</u> | <u>USOC</u> | <u>Monthly Rate</u> |
|---|------------------------------------|---------------------|
| Channel Mileage Facility, per mile | 1LFSX 1LFSX DDS 1LKSX DDS MP | |
| 2.4 kbps | | \$ 0.89 |
| 4.8 kbps | | 0.89 |
| 9.6 kbps | | 0.89 |
| 19.2 kbps | | 0.89 |
| 56.0 kbps | 1LFSX DDS 56 1LFSX DDS 56 MP | 1.77 |
| Channel Mileage Termination, per termination | TRG TRG VG DDS | |
| 2.4 kbps | | \$63.68 (I) |
| 4.8 kbps | | 63.68 (I) |
| 9.6 kbps | | 63.68 (I) |
| 19.2 kbps | | 63.68 (I) |
| 56.0 kbps | TRG DDS 56 | 96.32 |

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

Citizens Digital Network (Cont'd)

| <u>Optional Features and Functions</u> | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|--|----------------------------------|-------------------------|--------------------------------|
| Central Office Bridging, per port | BCNDA | \$11.36 (I) | \$14.65 |
| Secondary Channel | SCA24 SCA48 SCA96 SCA56 | 9.23 (I) | 64.19 |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

High Capacity

| | <u>USOC</u> | <u>Rate Band</u> | | <u>ACTUAL</u> | <u>NON</u> <u>RECURRING</u> |
|--|--------------|----------------------------------|----------------------------------|---------------|--------------------------------|
| | | <u>MINIMUM</u> <u>MONTHLY</u> | <u>MAXIMUM</u> <u>MONTHLY</u> | | |
| | | <u>RATE</u> | <u>RATE</u> | <u>RATE</u> | <u>CHARGE</u> |
| Channel Termination per Termination | | | | | |
| DS1 - 1.544 Mbps | | | | | |
| First System | EUW 1XCDX | \$166.07 | \$931.12 (I) | \$931.12 (I) | \$902.70 |
| Educational System* | | \$140.00 | \$161.00 | \$161.00 | |
| DS2 - 6.312 Mbps | | ICB | ICB | | ICB |
| DS3 - 44.736 Mbps | | ICB | ICB | | ICB |

* Educational Systems are available to full time educational institutions which are eligible for accreditation by the Southern Association of Colleges and Schools as well as public libraries within the state of Tennessee. The service must be used for classroom teaching, not administrative functions.

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

High Capacity (Cont'd)

| <u>Channel Mileage</u> | <u>USOC</u> | <u>Rate Band</u> | | <u>ACTUAL RATE</u> | <u>NON RECURRING CHARGE</u> |
|---|-------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|
| | | <u>MINIMUM MONTHLY RATE</u> | <u>MAXIMUM MONTHLY RATE</u> | | |
| Channel Mileage Facility per Mile | 1LFSX | | | | |
| DS1 - 1.544 Mbps | 1LFSX D1 1LFSX D1 MP | \$ 0.99 | \$35.18 | \$1.14 (I) | ---- |
| Educational Systems* | | \$ 0.00 | \$ 0.00 | | |
| DS2 - 6.312 Mbps | | ICB | ICB | | ---- |
| DS3 - 44.736 | | ICB | ICB | | ---- |
| <u>Channel Mileage Termination</u> per termination | TRG | | | | |
| DS1 - 1.544 Mbps | | \$20.74 | \$53.14 | \$23.85 (I) | ---- |
| DS2 - 6.312 Mbps | | ICB | ICB | | ---- |
| DS3 - 44.736 Mbps | | ICB | ICB | | ---- |

* Educational Systems are available to full time educational institutions which are eligible for accreditation by the Southern Association of Colleges and Schools as well as public libraries within the state of Tennessee. The service must be used for classroom teaching, not administrative functions.

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

High Capacity

| | <u>USOC</u> | <u>Rate Band</u> | | <u>ACTUAL RATE</u> | | <u>NON RECURRING CHARGE</u> |
|--------------------------------|-------------|-----------------------------|-----------------------------|--------------------|-----|-----------------------------|
| | | <u>MINIMUM MONTHLY RATE</u> | <u>MAXIMUM MONTHLY RATE</u> | | | |
| <u>Optional Features</u> | | | | | | |
| - DS1 to Voice | MQ1 | \$165.66 | \$251.62 | \$190.51 | (I) | \$860.64 |
| - DS2 to DS1 | | ICB | ICB | | | ---- |
| - DS3 to DS1 | | ICB | ICB | | | ---- |
| - Digital DS3 Cross Connect | | ICB | ICB | | | ICB |

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

High Capacity (Cont'd)

| | <u>USOC</u> | <u>Rate Band</u> | | <u>ACTUAL RATE</u> | | <u>NON RECURRING CHARGE</u> |
|---|-------------|-----------------------------|-----------------------------|--------------------|-----|-----------------------------|
| | | <u>MINIMUM MONTHLY RATE</u> | <u>MAXIMUM MONTHLY RATE</u> | | | |
| <u>Optional Features</u> (Cont'd) | | | | | | |
| - Digital Data Subrate One DS0 to Twenty 2.4 Kbps | QSU24 | \$183.77 | ---- | \$211.34 | (I) | \$981.33 |
| One DS0 to Ten 4.8 Kbps | QSU48 | \$126.96 | ---- | \$146.00 | (I) | \$878.53 |
| One DS0 to Five 9.6 Kbps | QSU96 | \$109.26 | ---- | \$125.65 | (I) | \$707.57 |

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

High Capacity (Cont'd)

| | <u>USOC</u> | <u>Rate Band</u> | | <u>ACTUAL RATE</u> | <u>NON RECURRING CHARGE</u> |
|---|-------------|-----------------------------|-----------------------------|--------------------|-----------------------------|
| | | <u>MINIMUM MONTHLY RATE</u> | <u>MAXIMUM MONTHLY RATE</u> | | |
| Automatic Loop Transfer* | | | | | |
| - Per Arrangement | | | ICB | | ICB |
| - Per Transmission | | | ICB | | ICB |
| Automatic Protection Switching, per DS1 | APP | | \$124.60 | \$143.29 (I) | \$777.87 |

* An additional Channel Termination charge will apply whenever the spare channel is configured as a leg to the customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.5 Special Access Service (Cont'd)

High Capacity (Cont'd)

| | <u>USOC</u> | <u>Rate Band</u> | | <u>ACTUAL RATE BILLED</u> | | <u>NON RECURRING CHARGE</u> |
|--------------------------------------|----------------|-----------------------------|-----------------------------|---------------------------|--|-----------------------------|
| | | <u>MINIMUM MONTHLY RATE</u> | <u>MAXIMUM MONTHLY RATE</u> | | | |
| <u>Clear Channel Capability</u> | | | | | | |
| per DS1 circuit arranged | CCO | | \$ 24.00 | \$27.60 (I) | | \$90.00 |
| <u>DS1 Optional Payment Plan</u> | | | | | | |
| First System DS1 Channel Termination | | | | | | |
| - Three Year | EU4AX ICKAX | \$166.07 | \$330.45 | \$380.02 (I) | | ---- |
| - Five Year | EU4BX ICKBX | \$166.07 | \$293.73 | \$337.79 (I) | | ---- |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.6 Special Federal Government Access Services Offerings

Telecommunications Service Priority (TSP) System (Cont'd)

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff which operates in conjunction with the TSP System.

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|--|---|---------------------------------|
| (A) Priority Installation (PI) of an Access Service - Invocation Includes System Development, Verification, Confirmation and Preemption * Per Circuit | ICB | ICB |
| (1) Expedited Change Charge | Regulations, rates and charges are the same as those set forth for the Switched or Special Access Service for which PI is required. | |

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

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F. Wayne Lafferty
 Assistant Vice-President
 Regulatory Affairs
 Citizens Telecommunications Company
 3 High Ridge Park
 Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.6 Special Federal Government Access Services Offerings (Cont'd)

Telecommunications Service Priority (TSP) System (Cont'd)

- (2) Utilizing
Specially
Constructed
Facilities

Regulations, rates and charges are the same as those set forth in Section 10 for Special Construction of the facilities for Switched Access Service for which PI is required.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.6 Special Federal Government Access Services Offerings (Cont'd)

Telecommunications Service Priority (TSP) System (Cont'd)

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> | <u>USOC</u> |
|---|------------------------------|---------------------------------|-------------|
| (B) Priority Restoration (PR) Level Implementation on an Access Service | | | |
| (1) When PR level is implemented - includes System Development, Verification and Confirmation * | | | |
| Special Access Per Circuit Arranged | ICB | ICB | |

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.6 Special Federal Government Access Services Offerings (Cont'd)

Telecommunications Service Priority (TSP) System (Cont'd)

| | | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|-----|---|------------------------------|---------------------------------|
| (2) | When the PR level is changed on an associated working Access Service - includes Verification and Confirmation | | |
| | Per Circuit | ICB | ICB |
| (3) | Administrative and maintenance of PR Service - includes Reconciliation and Preemption | | |
| | Per Circuit | ICB | ICB |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)20.1.7 Miscellaneous Service

| <u>Miscellaneous Service</u> | <u>USOC</u> | <u>Time</u> | Basic <u>Overtime</u> | Premium <u>Overtime</u> | <u>Time**</u> |
|---|-------------|-------------|--------------------------|----------------------------|---------------|
| Charges for Additional Engineering per Engineer, 1/2 hour or Fraction thereof | AEH | ICB | | ICB | ICB |
| Charges for Additional Labor per Technician, 1/2 hour or Fraction thereof | ALH | 29.41 | | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | | 20.27 | | 22.29 | 26.10 |
| Charges for Additional Testing per Technician, 1/2 hour or Fraction thereof | ALK | 29.41 | | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | | 20.27 | | 22.29 | 26.10 |
| Charges for Standby per Technician, 1/2 hour or Fraction thereof | ALT | 29.41 | | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | | 20.27 | | 22.29 | 26.10 |
| Charges for Programming per Programmer, 1/2 hour or Fraction thereof | ALK | 29.41 | | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | | 20.27 | | 22.29 | 26.10 |

** Subject to Minimum Charge of Four Hours

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)20.1.7 Miscellaneous Service (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> |
|---|-------------|-------------------------|
| Charges for Additional Testing per Transmission Path, First Point of Switching, per Month | | |
| - Automated Scheduled Testing | UBGXT | \$ 0.45 |
| - Additional Cooperative Scheduled Testing | | |
| - Basic Offering | UBSXT | \$ 1.62 |
| - Gain Slope | UBSXD | \$ 0.69 |
| - Additional Manual Scheduled Testing | | |
| - Basic Offering | UBMXT | \$ 3.23 |
| - Gain Slope | UBMXD | \$ 1.37 |

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.7 Miscellaneous Service (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|---|-------------|-------------------------|--------------------------------|
| <u>Equal Access Charges</u> | | | |
| per Telephone Exchange Service Line, Trunk, Pay Telephone | | | |
| - Presubscription Change Charge | NAPS | | |
| IntraLATA PIC Change Charge - per line or trunk | | | \$3.32 |
| *IntraLATA PIC Change Charge - when made simultaneously with interLATA PIC Change to the same carrier, - per line per trunk | | | \$5.00 |
| - ** Unauthorized PIC Change Charge - IntraLATA | | | 22.00 |
| IntraLATA PIC Change Charge - when made simultaneously with interLATA PIC Change to a different carrier, per line or trunk | | | 8.32 |
| - IC CIC Consolidation Charge | | | N/A |
| <u>Special Access Surcharge</u> | S25 | \$63.38 (I) | |
| <u>Billing Name and Address Service (BNA)</u> | | | |
| - Billing Name and Address per Order | | | \$ 50.00 |
| - Billing Name and Address Found/Each | | | 0.50 |
| - Billing Name and Address Not Found/Each | | | 0.25 |

* This change is billed to the end user which is the subscriber to the Telephone Exchange Service or the agent of the pay telephone, except as set forth in (D) preceding or in situations when such charges would be billed to an IC.

** As set forth in Section 9.3 preceding, this charge is billed to the IC submitting an unauthorized presubscription charge for an end user which is the subscriber to the Telephone Exchange Service.

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20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)20.1.7 Miscellaneous Service (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|--|-------------|-------------------------|--------------------------------|
| <u>Blocking</u> | | | |
| 900 Blocking Service | | | |
| - Residence | | | |
| Add Call Blocking, each line | | | N/A |
| Remove Call Blocking, each line | | | N/A |
| - Business | | | |
| Add Call Blocking, each line | | | N/A |
| Remove Call Blocking, each line | | | N/A |
| <u>End User/Agents List</u> | | | |
| -Agent List, NRC | | | |
| per State, per Order | | | \$50.00 |
| -Agent List, Initial | | | |
| per customer Account | | | 0.03 |
| -Agent List, Allocation | | | |
| per Listing | | | 0.03 |
| -Snapshot List, NRC | | | |
| per State, per Order | | | N/A |
| -Snapshot List, | | | |
| per Listing | | | N/A |
| <u>Telecommunications Service Priority</u> | | | |
| -Establishment of TSP System | | | |
| Service Charge | | None | \$14.50 |
| -Restoration Priority | | | |
| | | \$4.90 | None |

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
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ACCESS SERVICE

20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)20.1.8 Special Facilities Routing of Access Service

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff to operate in conjunction with this service.

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|--|------------------------------|---------------------------------|
| (A) Special Routing Access Service Area Plan-Setup and Removal, Per End Office or Tandem Office Switching System. (Note 1) (Note 2) | ICB | ICB |
| (B) Special Routing Access Service Trunk Group Setup and Removal, Per End Office Switching System, Per Occurrence (Note 1) (Note 2) | ICB | ICB |

(Note 1) The service setups will only be activated in offices that are specifically negotiated by the customer with the Telephone Company and are mutually agreeable between both parties.

(Note 2) End Offices will be updated for activation and/or deactivation annually.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.8 Special Facilities Routing of Access Service (Cont'd)

| | | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|-----|--|------------------------------|---------------------------------|
| (C) | Activation or Deactivation of Special Routing Access Service, Per End Office or Tandem Office Switching System, Per Occurrence | ICB | ICB |
| (D) | Special Routing Access Service Trunk Usage, When Activated, Per Trunk, Per Initial Activation Hour | ICB* | ICB |

* This rate is in addition to Trunk Side Premium Access Service rates which apply on an ongoing basis whether SRAS is activated or not.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.8 Special Facilities Routing of Access Service (Cont'd)

| | | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|-----|---|------------------------------|---------------------------------|
| (E) | Special Routing Access Service Trunk Usage, When Activated, Per Trunk, Per Subsequent 1/2 Hour | ICB* | ICB |
| (F) | Special Routing Access Service Maintenance and Administration, Per End Office or Tandem Office Switching System, Per Month | ICB | ICB |

* This rate is in addition to Trunk Side Premium Access Service rates which apply on an ongoing basis whether SRAS is activated or not.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - **CTC of Tennessee** (Cont'd)

20.1.9 (RESERVED)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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ACCESS SERVICE

20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)20.1.10 Billing and Collection Services

| | | |
|-----|---|---------|
| (1) | Program Development Charge: Per Hour | \$94.00 |
| (2) | Program Implementation: Per Hour | 55.00 |
| (3) | Service Order Change Charge: Per Order | 4.00 |
| (4) | MTS/WATS/800 Services Call Recording Service: Per Message | 0.0150 |
| (5) | MTS/WATS/800 Services Message Processing Service: Per Message | 0.0100 |
| | Assembly and Editing Service: Per Message | 0.0075 |
| (6) | Call Record Provision Service Via Magnetic Tape, Per Message Record Transmitted or Received | 0.01 |
| | Via Direct Interface, Per Message Record Transmitted or Received | 0.002 |

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20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)20.1.10 Billing and Collection Services (Cont'd)

| | | |
|-----|--|----------|
| (7) | Message-Billed Message Bill Processing Service per Message | |
| | 0 to 1,334,099 | \$0.0762 |
| | 1,334,100 to 1,778,799 | 0.0400 |
| | 1,778,800 to 2,668,299 | 0.0200 |
| | 2,668,300 to 4,002,399 | 0.0170 |
| | 4,002,400 to 4,892,000 | 0.0160 |
| | Greater than 4,892,000 | 0.0150 |
| (8) | Bulk-Billed Message Bill Processing Service per Message | 0.0200 |
| (9) | MTS/WATS/800 Service Bill Rendering Service, per Bill | |
| | 0 to 42,300 | 0.3500 |
| | 42,301 to 61,100 | 0.3000 |
| | 61,101 to 195,999 | 0.2700 |
| | 196,000 to 209,999 | 0.2500 |
| | Greater than 209,999 | 0.2300 |

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20. Rates and Charges (Cont'd)20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)20.1.10 Billing and Collection Services (Cont'd)

| | | |
|------|---|--------------------------|
| (10) | MTS/WATS/800 Services Message Investigation, per Message | \$2.50 |
| (11) | Citizens Billing Services #1 Citizens Billing Services #1, per message Inquiry Service, per message Adjustment, per message | 0.0634 0.0078 2.00 |
| (12) | Citizens Billing Services #2, Per Message Messages Per End User Account Per Month 1-10 Message Over 10 Messages | 0.0310 0.0190 |
| (13) | EC Memo, per Account | 10.00 |
| (14) | Record Keeping, per Account | 0.0300 |
| (15) | Centralized Message Dispersion charge, per Message | 0.002 |

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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of Tennessee (Cont'd)

20.1.10 Billing and Collection Services (Cont'd)

(B) In accordance with 14.1.2(C)(1)(b), the rates and charges will be developed on an individual case basis and listed below.

(Reserved for Future Use)

(C) In accordance with 14.1.2(C)(2)(c), the rates and charges will be developed on an individual case basis and listed below.

(Reserved for Future Use)

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges

Rates and charges for Access Services set forth below apply to all of the Issuing Carriers set forth on Title Pages 1 and 2 preceding.

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State

20.2.1 Carrier Common Line

Regulations concerning Carrier Common Line Access Service are set forth in Section 3 preceding.

| <u>Premium Access</u> | <u>Rate</u> | |
|--|--------------|-----|
| -Originating, per Access Minute - non 800/888 | \$0.01628917 | |
| -Originating, per Access Minute - 800/888 | \$0.00796917 | (R) |
| | | |
| -Terminating, per access minute | 0 | |
| -Intrastate Telecommunications Relay Service Adjustment | 0* | |
| -Total Terminating, per Access Minute | 0* | |

* Effective January 1, 2015

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of The Volunteer State**(Cont'd)

20.2.2 End User Access Service

Regulations concerning End User Common Line (EUCL) are set forth in Section 4 preceding.

| <u>End User Common Line (EUCL) - Business</u> | <u>Per Month</u> |
|---|------------------|
| Multi-Line, including Centrex CO and CO-Like Service, per each individual line or trunk | N/A |
| Single-Line, each individual line or trunk | N/A |
| <u>End User Common Line (EUCL) - Residence</u> | |
| Single-Line, each individual line or trunk | N/A |
| Centrex CO and CO-like Dormitory Service, each individual line or trunk installed | N/A |

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Assistant Vice-President
Regulatory Affairs
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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of The Volunteer State** (Cont'd)

20.2.3 Access Ordering

Regulations concerning Access Ordering are set forth in Section 5 preceding.

| | <u>Nonrecurring Charge</u> |
|-----------------------------------|--------------------------------|
| <u>Service Date Change Charge</u> | |
| - Per Order | \$26.21 |
| <u>Design Change Charge</u> | |
| - Per Order | \$26.21 |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of The Volunteer State** (Cont'd)

20.2.4 Switched Access Service

Regulations concerning Switched Access are set forth in Section 6 preceding. Exceptions to the switched access rates listed in the Telephone Company's interstate tariff are as follows:

| | |
|-----------------------------------|--------------------------------------|
| <u>800 Data Base Query Charge</u> | <u>Per Query</u> \$0.00210000 (R) |
|-----------------------------------|--------------------------------------|

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of The Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

(D)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of The Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

(D)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

(D)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.4 Switched Access Service (Cont'd)

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service

Rates and Charges

Metallic Service

A. Local Channel

(1). Charge

(a) Per Point Of Termination

Month
Rate

\$20.00

Nonrecurring

First

Service

Installed

\$310.00

Charges

Additional

Service

Installed

\$130.00

B. Interoffice Channel

(1) 0 miles

(2) 1 thru 8 miles

(3) 9 thru 25 miles

(4) over 25 miles

Fixed
Monthly
Charge

-

30.00

30.00

30.00

Monthly
Charge
Per Mile

-

2.05

2.00

1.95

Nonrecurring
Charges

-

97.00

97.00

97.00

C. Optional Features and
Functions

1. Bridging

(a) Three Premises Bridging,
Per port

(b) Series Bridging, Per port

Monthly
Rate

3.00

3.00

Nonrecurring
Charges

30.00

30.00

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Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Telegraph Grade Service

A. Local Channel

| | | <u>Nonrecurring Charges</u> | |
|-----------------------------|----------------|-----------------------------|-------------------|
| | | <u>First</u> | <u>Additional</u> |
| | <u>Monthly</u> | <u>Service</u> | <u>Service</u> |
| | <u>Rate</u> | <u>Installed</u> | <u>Installed</u> |
| 1. Per Point of Termination | | | |
| (a) Two-Wire | 20.00 | - | - |
| (a) Four-Wire | 40.00 | - | - |

B. Interoffice Channel

| | | | |
|---------------------|-------|------|-------|
| (1) 0 miles | 30.00 | 2.05 | 97.00 |
| (2) 1 thru 8 miles | 30.00 | 2.00 | 97.00 |
| (3) 9 thru 25 miles | 30.00 | 1.95 | 97.00 |
| (4) over 25 miles | 30.00 | 1.95 | 96.00 |

C. Telegraph Bridging

| | <u>Monthly</u> | <u>Nonrecurring</u> |
|-------------------------|----------------|---------------------|
| | <u>Rate</u> | <u>Charge</u> |
| Two Wire and Four Wire | | |
| (1) Two Wire, per port | \$3.00 | - |
| (2) Four Wire, per port | \$3.00 | - |

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Regulatory Affairs
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service(Cont'd)

Rates and Charges(Cont'd)

Voice Grade Service

A. Local Channel

1. Per Point of Termination

| | | <u>Nonrecurring Charges</u> | |
|-------------------------------------|---------|-----------------------------|------------------|
| | Monthly | First | Additional |
| | Rate | Service | Service |
| | | <u>Installed</u> | <u>Installed</u> |
| (a) Voice | | | |
| (i) Two Wire | \$25.00 | \$235.00 | \$100.00 |
| (ii) Four Wire | \$45.00 | \$240.00 | \$110.00 |
| | | | |
| (b) Data | | | |
| (i) Two Wire | 30.00 | 260.00 | 120.00 |
| (ii) Four Wire | 50.00 | 270.00 | 130.00 |
| | | | |
| (c) Loop Facilities Not Required | | | |
| (i) Two Wire | 10.00 | 125.00 | 72.00 |
| (ii) Four Wire | 10.00 | 125.00 | 72.00 |

B. Interoffice Channel

1. Mileage Bands

| | Fixed | | Nonrecurring |
|---------------------|---------|----------|--------------|
| | Monthly | Monthly | Charges |
| | Charge | Per Mile | |
| (1) 0 miles | - | - | - |
| (2) 1 thru 8 miles | \$30.00 | \$2.05 | 96.00 |
| (3) 9 thru 25 miles | \$30.00 | \$2.00 | 96.00 |
| (4) Over 25 miles | \$30.00 | \$1.95 | 96.00 |

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Regulatory Affairs
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

C. Optional Features and Functions

1. Bridging

(a) Voice Bridging, Two wire/Four
Wire

(1) Per Port

- (a) Two wire
- (b) Four wire

| Monthly Rate | Nonrecurring Charges |
|-----------------|-------------------------|
| \$12.00 | \$35.00 |
| \$14.00 | \$35.00 |

(b) Data Bridging, Two wire/Four
Wire

(1) Per Port

- (a) Two wire
- (b) Four wire

| | |
|---------|---------|
| \$20.00 | \$38.00 |
| \$20.00 | \$38.00 |

(c) Telphoto, Two wire/Four Wire

(1) Per Port

- (a) Two wire
- (b) Four wire

| | |
|---------|---------|
| \$12.00 | \$35.00 |
| \$14.00 | \$35.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

C. Optional Features and Functions (Cont'd)

| | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> |
|---|-------------------------|---------------------------------|
| . (2) Telemetry and Alarm Bridging- Split Band, Active, Active Bridging | | |
| (a). Common Equipment, per central office | | |
| (i) First bridging shelf, capacity of 48 two wire connections | \$120.00 | \$370.00 |
| (ii) Additional bridging shelf, capacity of 56 two wire connections installed subsequent to the first bridging shelf | \$120.00 | \$330.00 |
| (iii) Additional bridging shelf, capacity of 56 two wire connections installed at the same time as the first bridging shelf | \$50.00 | \$205.00 |
| (b). Channel connections, per channel connected | | |
| | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> |
| (i) Remote station channel connection | \$5.00 | \$36.00 |
| (ii) Mid link channel connection, first channel | 10.00 | 45.00 |
| (iii) Mid link channel connection, subsequent channel | 10.00 | 45.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

C. Optional Features and Functions
(Cont'd)

| <u>3. Conditioning, per Point of Termination</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|---|---------------------|-----------------------------|-------------------|
| <u>(a) C-Type</u> | <u>\$3.00</u> | <u>Initial</u> | <u>Subsequent</u> |
| (a) C-Type | \$3.00 | \$16.00 | \$80.00 |
| (b) Improved Attenuation Distortion | 85.00 | 78.00 | 155.00 |
| (c) Improved Envelope Delay Distortion | 120.00 | 78.00 | 155.00 |
| (d) Sealing Current | 1.00 | 36.00 | 91.00 |
| <u>4. Echo Control for Effective Two wire Service</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
| <u>(a) Per Point of Termination</u> | | <u>Initial</u> | <u>Subsequent</u> |
| (i) Improved Return Loss at the Two wire point of Termination | \$20.00 | \$8.00 | \$245.00 |
| (ii) ELEPL2 at the Four Wire Point of Termination | 20.00 | 7.00 | 245.00 |
| <u>5. Customer Specified Receive Level</u> | | | |
| (a) Per two wire or four wire Point of Termination | | | 66.00 |
| <u>6. D-Conditioning</u> | | | |
| (a) Per Point of Termination | 3.00 | 10.00 | 275.00 |
| <u>7. Telephoto Conditioning</u> | | | |
| (a) Per Point of Termination | 3.00 | 4.00 | 240.00 |

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Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

Optional Features and Functions (Cont'd)

8. Signaling Capability,

| Per Point of Termination | Monthly Rate | Nonrecurring Charges | |
|--------------------------|-----------------|----------------------|------------|
| | | Initial | Subsequent |
| (a) Loop ¹ | 6.00 | 16.00 | 255.00 |
| (b) Single Frequency | 7.00 | 25.00 | 265.00 |
| (c) E&M ² | 10.00 | 26.00 | 265.00 |
| (d) Ground ³ | 6.00 | 11.00 | 250.00 |
| (e) Type C | 3.00 | 15.00 | 255.00 |
| (f) Other ⁴ | 6.00 | 20.00 | 260.00 |

9. Improved Termination

| | | | |
|------------------------------|------|------|--------|
| (a) Per Point of Termination | 3.00 | 4.00 | 245.00 |
|------------------------------|------|------|--------|

10. Simplex Reversal

| | | | |
|------------------------------|--|------|-------|
| (a) Per Point of Termination | | 4.00 | 95.00 |
|------------------------------|--|------|-------|

Note 1: In lieu of ++ substitute LO or LS as Appropriate

Note 2: In lieu of ++ substitute EA, EB, EC or CT as Appropriate

Note 3: In lieu of ++ substitute GO or GS as Appropriate

Note 4: In lieu of ++ substitute LA, LB, LR, RV, DX, DY, EX, AB or AC as Appropriate

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

D. WATS Access Line

1. Two Wire/ Four Wire
WATS Access Line

| a. Local Channel (1) Per Point Of Termination | Monthly Rate | First Service Installed | Additional Service Installed |
|---|-----------------|-------------------------------|------------------------------------|
| (a) Two Wire Line | 25.00 | 235.00 | 100.00 |
| (b) Two Wire Line ¹ | 25.00 | 235.00 | 100.00 |
| (c) Four Wire Line ¹ | 45.00 | 240.00 | 110.00 |
| (d) Four Wire Line ¹ | 45.00 | 240.00 | 110.00 |

Note 1: For use with Direct Inward Dial (DID) or DID/DOD Access Service
with BSA for use with Dedicated Access Lines.

| 2. <u>Interoffice Channel</u> (A) Mileage Bands (1) Fixed Rate | Fixed Monthly Charge | Monthly Per Mile | Nonrecurring Charges |
|--|----------------------------|---------------------|-------------------------|
| (a) 0 miles | \$- | \$- | \$- |
| (b) 1 thru 8 miles | 30.00 | 2.05 | 96.00 |
| (c) 9 thru 25 miles | 30.00 | 2.00 | 96.00 |
| (d) Over 25 miles | 30.00 | 1.95 | 96.00 |

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Stamford, CT 06905

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20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

D. WATS Access Line (Cont'd)

3. Optional Features

- (a) Improved Two wire voice
transmission Specifications
(1) For WATS Access Line

| | Monthly Rate | Nonrecurring Initial | Charges Subsequent |
|--------------|-----------------|-------------------------|-----------------------|
| (a) Two wire | \$20.00 | \$34.00 | \$82.00 |

- (b) WATS Access
Line bridging
(1) Two wire/Four Wire

| | Monthly Rate | Nonrecurring Charges |
|---------------|-----------------|-------------------------|
| (a) Two wire | 12.00 | 35.00 |
| (b) Four wire | 14.00 | 35.00 |

Wired Music Service

| a. Local Channel | Monthly Rate | Nonrecurring Charges | |
|-----------------------------|-----------------|-------------------------------|------------------------------------|
| | | First Service Installed | Additional Service Installed |
| 1. Per point of Termination | | | |
| (a) 200 to 3500 Hz | \$35.00 | \$425.00 | \$190.00 |
| (b) 100 to 5000 Hz | 45.00 | 500.00 | 255.00 |
| (c) 50 to 8000 Hz | 50.00 | 510.00 | 265.00 |
| (d) 50 to 8000 Hz | 50.00 | 510.00 | 265.00 |

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Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

E. Interoffice Channel

(1). 200 to 3000 Hz

| Mileage Bands | Fixed Monthly Charge | Monthly Per Mile | Nonrecurring Charges |
|---------------------|----------------------------|---------------------|-------------------------|
| (1) Fixed Rate | | | |
| (a) 0 miles | \$ | \$ | \$ |
| (b) 1 thru 8 miles | 30.00 | 2.05 | 76.00 |
| (c) 9 thru 25 miles | 30.00 | 2.00 | 76.00 |
| (d) Over 25 miles | 30.00 | 1.95 | 76.00 |

(2). 100 to 5000 Hz

| Mileage Bands | Fixed Monthly Charge | Monthly Per Mile | Nonrecurring Charges |
|---------------------|----------------------------|---------------------|-------------------------|
| (1) Fixed Rate | | | |
| (a) 0 miles | \$ | \$ | \$ |
| (b) 1 thru 8 miles | 50.00 | 4.10 | 67.00 |
| (c) 9 thru 25 miles | 50.00 | 4.00 | 67.00 |
| (d) Over 25 miles | 50.00 | 3.00 | 67.00 |

(3) 50 to 8000 Hz

| Mileage Bands | Fixed Monthly Charge | Monthly Per Mile | Nonrecurring Charges |
|---------------------|----------------------------|---------------------|-------------------------|
| (1) Fixed Rate | | | |
| (a) 0 miles | \$ | \$ | \$ |
| (b) 1 thru 8 miles | 78.00 | 6.15 | 67.00 |
| (c) 9 thru 25 miles | 70.00 | 6.00 | 67.00 |
| (c) Over 25 miles | 70.00 | 5.85 | 67.00 |

(C) Optional Features and
functions

| | Monthly Rate | Nonrecurring Charges |
|--------------------------------------|-----------------|-------------------------|
| 1. Bridging, Distortion Amplifier | | |
| (a) per port | 2.00 | 30.00 |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Rates and Charges (Cont'd)

Voice Grade Service (Cont'd)

| | | | |
|----------------------|------------------------|--------------------------------|------------------------------|
| 2. Gain Conditioning | Monthly <u>Rate</u> | Nonrecurring <u>initial</u> | Charges <u>Subsequent</u> |
| (b) Per Service | 8.00 | 24.00 | 70.00 |

Digital Data Secondary Channel
Capability, per Local Channel

| | | | |
|-------------------------------|-----------------------------|---------------------------|---------------------------|
| Nonrecurring <u>Charge</u> | Month to <u>Month</u> | 24 to 42 <u>Months</u> | 43 to 60 <u>Months</u> |
| \$190.00 | \$15.00 | \$14.00 | \$13.00 |

Data Over Voice Channel, per Local Channel

| | | | |
|-------------------------------|-----------------------------|------------------------------|------------------------------|
| Nonrecurring <u>Charge</u> | Month to <u>Month</u> | 24 to 42 <u>Months</u> | 43 to 60 <u>Months</u> |
| \$650.00 | \$33.00 | \$30.00 | \$28.00 |

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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Digital Data Access Service

A. Local Channel

1. Per Point of Termination

| | Nonrecurring First | Charge Add'l | Month to Month | 24 to 42 Months | 43 to 60 Months |
|-----------|-----------------------|-----------------|----------------------|--------------------|--------------------|
| 2.4 Kbps | \$330.00 | \$115.00 | 50.00 | 49.00 | 47.00 |
| 4.8 Kbps | 330.00 | 115.00 | 50.00 | 49.00 | 47.00 |
| 9.6 Kbps | 330.00 | 115.00 | 50.00 | 49.00 | 47.00 |
| 19.2 Kbps | 330.00 | 115.00 | 50.00 | 49.00 | 47.00 |
| 56.0 Kbps | 330.00 | 115.00 | 50.00 | 49.00 | 47.00 |
| 64.0 Kbps | 330.00 | 115.00 | 50.00 | 49.00 | 47.00 |
| 2.4 Kbps | 61.00 | 54.00 | 10.00 | 9.75 | 9.50 |
| 4.8 Kbps | 61.00 | 54.00 | 10.00 | 9.75 | 9.50 |
| 9.6 Kbps | 61.00 | 54.00 | 10.00 | 9.75 | 9.50 |
| 19.2 Kbps | 61.00 | 54.00 | 10.00 | 9.75 | 9.50 |
| 56.0 Kbps | 61.00 | 54.00 | 10.00 | 28.00 | 26.00 |
| 64.0 Kbps | 61.00 | 54.00 | 10.00 | 28.00 | 26.00 |

B. Interoffice Channel

1. 2.4 Kbps

Mileage Bands

| | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charges |
|-----------------|----------------------------|-------------------------------|-------------------------|
| 0 miles | \$- | \$- | \$- |
| 1 thru 8 miles | 20.00 | 2.05 | 39.00 |
| 9 thru 25 miles | 20.00 | 2.00 | 39.00 |
| Over 25 miles | 20.00 | 1.95 | 39.00 |

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Stamford, CT 06905

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Digital Data Access Service (Cont'd)

2. 4.8 Kbps

B. Interoffice Channel (Cont'd)

Mileage Bands

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charges |
|-----|-----------------|----------------------------|-------------------------------|-------------------------|
| (a) | 0 miles | \$ | \$ | \$ |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 39.00 |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 39.00 |
| (d) | Over 25 miles | 20.00 | 1.95 | 39.00 |

3. 9.6 Kbps

Mileage Bands

| | | | | |
|-----|-----------------|-------|------|-------|
| (a) | 0 miles | - | - | - |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 39.00 |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 39.00 |
| (d) | Over 25 miles | 20.00 | 1.95 | 39.00 |

4. 19.2 Kbps

Mileage Bands

| | | | | |
|-----|-----------------|-------|------|-------|
| (a) | 0 miles | - | - | - |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 39.00 |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 39.00 |
| (d) | Over 25 miles | 20.00 | 1.95 | 39.00 |

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Stamford, CT 06905

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Interoffice Channel (Cont'd)

5. 56 Kbps

Mileage Bands

| | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charges |
|---------------------|----------------------------|-------------------------------|-------------------------|
| (a) 0 miles | \$ | \$ | \$ |
| (b) 1 thru 8 miles | 40.00 | 4.10 | 39.00 |
| (c) 9 thru 25 miles | 40.00 | 4.00 | 39.00 |
| (d) Over 25 miles | 40.00 | 3.90 | 39.00 |

6. 64.0 Kbps

Mileage Bands

| | | | |
|---------------------|-------|------|-------|
| (a) 0 miles | \$ | \$ | \$ |
| (b) 1 thru 8 miles | 40.00 | 4.10 | 39.00 |
| (c) 9 thru 25 miles | 40.00 | 4.00 | 39.00 |
| (d) Over 25 miles | 40.00 | 3.90 | 39.00 |

7. 2.4, 4.8, 9.6 or 19.2 Kbps (Contract Rates)

Mileage Bands

| | Recurring Charge Per Channel | Fixed | | Per Mile | |
|------------------------|---------------------------------------|--------------------|--------------------|--------------------|--------------------|
| | | 24 to 42 Months | 43 to 60 Months | 24 to 42 Months | 43 to 60 Months |
| (a) 0 miles | \$- | \$- | \$- | \$- | \$- |
| (b) 1 thru 8 miles | 39.00 | 19.50 | 19.00 | 1.90 | 1.75 |
| (c) 9 thru 25 miles | 39.00 | 19.50 | 19.00 | 1.85 | 1.70 |
| (d) Over 25 miles | 39.00 | 19.50 | 19.00 | 1.80 | 1.65 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

High Capacity Service

A. Local Channel

1. Per Point of Termination

| | | <u>Nonrecurring Charges</u> | |
|------------------|---------------------|--------------------------------|-------------------------------------|
| | <u>Monthly Rate</u> | <u>First Service Installed</u> | <u>Additional Service Installed</u> |
| (a) 1.544 Mbps | \$106.00 | \$735.00 | \$335.00 |
| (b) 3.152 Mbps | - | - | - |
| (c) 6.312 Mbps | - | - | - |
| (d) 44.736 Mbps | - | - | - |
| (e) 274.176 Mbps | - | - | - |

2. Contract Rates Per Point Of Terminations

| | | <u>Nonrecurring Charge</u> | | <u>24 to 48 Months</u> | <u>49 to 72 Months</u> | <u>73 to 96 Months</u> |
|----------------|--------------|----------------------------|----------|------------------------|------------------------|------------------------|
| | <u>First</u> | <u>Additional</u> | | | | |
| (a) 1.544 Mbps | \$735.00 | \$335.00 | \$106.00 | \$104.00 | \$102.00 | |

B. Interoffice Channel

1. 1.544 Mbps

Mileage Bands

| | <u>Fixed Monthly Charge</u> | <u>Monthly Charge Per Mile</u> | <u>Nonrecurring Charges</u> |
|---------------------|-----------------------------|--------------------------------|-----------------------------|
| (a) 0 mile | \$- | \$- | \$- |
| (b) 1 thru 8 miles | 75.00 | 45.50 | 290.00 |
| (c) 9 thru 25 miles | 75.00 | 45.50 | 290.00 |
| (d) Over 25 miles | 75.00 | 45.50 | 290.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

High Capacity Service (Cont'd)

2. 1.544 Mbps

Mileage Bands

| | | <u>Per Mile</u> | | | | |
|-----|----------------|-----------------|------------------|-----------------------|-----------------------|-----------------------|
| | | Nonrecurring | Fixed Monthly | 24 to 48 Months | 49 to 72 Months | 73 to 96 Months |
| | | <u>Charge</u> | <u>Charge</u> | <u>Months</u> | <u>Months</u> | <u>Months</u> |
| (a) | 0 miles | \$- | \$- | \$- | \$- | \$- |
| (b) | 1 thru 8 miles | 290.00 | 65.00 | 18.00 | 16.00 | 14.00 |
| (c) | 9 - 25 miles | 290.00 | 65.00 | 18.00 | 16.00 | 14.00 |
| (d) | Over 25 miles | 290.00 | 65.00 | 18.00 | 16.00 | 14.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

High Capacity Service (Cont'd)

3. 3.152 Mbps

Mileage Bands

| | <u>Fixed Monthly Charge</u> | <u>Monthly Charge Per Mile</u> | <u>Nonrecurring Charge</u> |
|---------------------|-------------------------------------|--|--------------------------------|
| (a) 0 miles | \$- | \$- | \$- |
| (b) 1 thru 8 miles | - | - | - |
| (c) 9 thru 25 miles | - | - | - |
| (d) Over 25 miles | - | - | - |

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20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

High Capacity Service (Cont'd)

4. 6.312 Mbps

Mileage Bands

| | <u>Fixed Monthly Charge</u> | <u>Monthly Charge Per Mile</u> | <u>Nonrecurring Charge</u> |
|---------------------|-------------------------------------|--|--------------------------------|
| (a) 0 miles | \$- | \$- | \$- |
| (b) 1 thru 8 miles | - | - | - |
| (c) 9 thru 25 miles | - | - | - |
| (d) Over 25 miles | - | - | - |

5. 44.736 Mbps

Mileage Bands

| | <u>Fixed Monthly Charge</u> | <u>Monthly Charge Per Mile</u> | <u>Nonrecurring Charge</u> |
|---------------------|-------------------------------------|--|--------------------------------|
| (a) 0 miles | \$- | \$- | \$- |
| (b) 1 thru 8 miles | - | - | - |
| (c) 9 thru 25 miles | - | - | - |
| (d) Over 25 miles | - | - | - |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

High Capacity Service (Cont'd)

C. Optional Features and Functions

1. Channelizations

DS3 Channelizations

(1) DS3 to DS1

| | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|----------------------------|-------------------------|--------------------------------|
| | \$- | \$- |
| Per arrangement | | |
| DS2 Channelization | | |
| (1) DS2 to DS1 | | |
| (a) Per arrangement | - | - |
| DS1C Channelization | | |
| (a) Per arrangement | - | - |
| DS1 Channelization | | |
| (1) DS1 Basic | | |
| Channelizations System | | |
| (DS1 to VG/DS0) | | |
| (a) Per system | 210.00 | |
| DS0 Channelizations System | | |
| (DS0 to Subrate) | | |
| (Per System) | | |
| (a) Maximum of 20, 2.4 | 120.00 | 140.00 |
| Kbps services | | |
| (b) Maximum of 10, 4.8 | 120.00 | 140.00 |
| Kbps services | | |
| (c) Maximum of 5, 9.6 | 120.00 | 140.00 |
| Kbps services | | |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.5 Special Access Service (Cont'd)

High Capacity Service (Cont'd)

C. Optional Features and Functions

4. Clear Channel Capacity is furnished on a per DS1 service channel basis

Per DS1/1.544 Mbps High Capacity Channel optioned as:

| | Monthly Rate | Initial Charge | Nonrecurring Subsequent |
|---|-----------------|-------------------|----------------------------|
| (a) Superframe Format (SF) | \$- | \$- | \$590.00 |
| (b) Extended Superframe Format (ESF) | - | - | 590.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Message Station Equipment Recovery Charge

A. Message Station Equipment Recovery Charge
Per Special Access Surcharge Assessed

| | Monthly Rate |
|------|-----------------|
| Each | \$4.26 |

B. Service Rearrangements

1. Special Access Circuits

| | Nonrecurring Charge |
|--------------------------------|------------------------|
| (a) Per Billing Account Number | \$149.00 |
| (b) Per circuit | 7.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Commercial Quality Video Service

A. Rates and Charges

1. Single Channel Video System

| | | Nonrecurring <u>Charge</u> | <u>Daily</u> | Month to <u>Month</u> | 24 to 48 <u>Month</u> | 49 to 72 <u>Month</u> |
|-----|----------|-------------------------------|--------------|-----------------------------|--------------------------|--------------------------|
| (a) | Transmit | \$325.00 | \$117.00 | \$350.00 | \$315.00 | \$298.00 |
| (b) | Receive | 325.00 | 117.00 | 350.00 | 315.00 | 298.00 |

2. Multiple Channel Voice System (1-16 Video Channels)

| | | Non Recurring <u>Charge</u> | <u>Daily</u> | Month to <u>Month</u> | 24 to 48 <u>Month</u> | 49 to 72 <u>Month</u> |
|-----|--------------------------------|-----------------------------------|--------------|-----------------------------|--------------------------------|--------------------------------|
| (a) | Each System, Transmit | 515.00 | - | 700.00 | 630.00 | 595.00 |
| (b) | Each System, Receive | 515.00 | - | 700.00 | 630.00 | 595.00 |
| (c) | Each Video Channel Transmit | 175.00 | - | 117.00 | 105.00 | 99.00 |
| (d) | Each System, Receive | 175.00 | - | 117.00 | 105.00 | 99.00 |

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Commercial Quality Video Service (Cont'd)

A. Monthly Rates and Charges

3. Interoffice Channel

a. Single Channel Video System

| (1) <u>Per System</u> | <u>Non</u> <u>Recurring</u> <u>Charge</u> | <u>Daily</u> | <u>Month</u> <u>to</u> <u>Month</u> | <u>24</u> <u>to 48</u> <u>Months</u> | <u>49 to</u> <u>72</u> <u>Months</u> |
|---|---|--------------|---|--|--|
| (a) Fixed (1-50) | \$410.00 | \$104.00 | \$312.00 | \$293.00 | \$275.00 |
| (b) Per airline mile or fraction thereof (1-50 miles) | - | 23.00 | 68.00 | 61.00 | 58.00 |
| (c) Fixed (greater than 50 miles) ¹ | \$430.00 | | 1,800.00 | 1,620.00 | 1,530.00 |
| (d) Per airline mile or fraction thereof (greater than 50 miles) ¹ | - | | 45.00 | 41.00 | 38.00 |

b. Multiple Channel Video System²

| (1) <u>Per System</u> | <u>Non</u> <u>Recurring</u> <u>Charge</u> | <u>Daily</u> | <u>Month</u> <u>to</u> <u>Month</u> | <u>24</u> <u>to 48</u> <u>Months</u> | <u>49 to</u> <u>72</u> <u>Months</u> |
|--|---|--------------|---|--|--|
| (a) Fixed (1-50) | \$410.00 | \$ | \$40.00 | \$36.00 | \$34.00 |
| (b) Per airline mile or fraction thereof (1-50 miles) | - | | 116.00 | 104.00 | 99.00 |
| (c) Fixed (greater than 50 miles) | \$410.00 | | 40.00 | 36.00 | 34.00 |
| (d) Per airline mile or fraction thereof (greater than 50 miles) | - | | 116.00 | 104.00 | 99.00 |

Note: 1 Daily rates are not available for Single Channel Video System IOC greater than fifty miles.

Note: 2 Daily rates are not available for a Multiple Channel Video System.

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Regulatory Affairs
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20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Commercial Quality Video Service (Cont'd)

A. Monthly Rates and Charges

3. Interoffice Channel

a. Single Channel Video System

| (1) <u>Per System</u> | <u>Non</u> <u>Recurring</u> <u>Charge</u> | <u>Daily</u> | <u>Month</u> <u>to</u> <u>Month</u> | <u>24</u> <u>to 48</u> <u>Months</u> | <u>49 to</u> <u>72</u> <u>Months</u> |
|---|---|--------------|---|--|--|
| (a) Fixed (1-50) | \$410.00 | \$104.00 | \$312.00 | \$293.00 | \$275.00 |
| (b) Per airline mile or fraction thereof (1-50 miles) | - | 23.00 | 68.00 | 61.00 | 58.00 |
| (c) Fixed (greater than 50 miles) ¹ | \$430.00 | | 1,800.00 | 1,620.00 | 1,530.00 |
| (d) Per airline mile or fraction thereof (greater than 50 miles) ¹ | - | | 45.00 | 41.00 | 38.00 |

b. Multiple Channel Video System²

| (1) <u>Per System</u> | <u>Non</u> <u>Recurring</u> <u>Charge</u> | <u>Daily</u> | <u>Month</u> <u>to</u> <u>Month</u> | <u>24</u> <u>to 48</u> <u>Months</u> | <u>49 to</u> <u>72</u> <u>Months</u> |
|--|---|--------------|---|--|--|
| (a) Fixed (1-50) | \$410.00 | \$- | \$40.00 | \$36.00 | \$34.00 |
| (b) Per airline mile or fraction thereof (1-50 miles) | - | | 116.00 | 104.00 | 99.00 |
| (c) Fixed (greater than 50 miles) | \$410.00 | | 40.00 | 36.00 | 34.00 |
| (d) Per airline mile or fraction thereof (greater than 50 miles) | - | | 116.00 | 104.00 | 99.00 |

Note: 1 Daily rates are not available for Single Channel Video System IOC greater than fifty miles.

Note: 2 Daily rates are not available for a Multiple Channel Video System.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

Derived Data Channel Service

A. Local Channel

1. Derived Data Channel

| (1) <u>Per System</u> | <u>Non Recurring</u> | <u>Month</u> | <u>24</u> | <u>49 to</u> |
|-----------------------------|----------------------|--------------|---------------|---------------|
| | <u>Charge</u> | <u>to</u> | <u>to 48</u> | <u>72</u> |
| | | <u>Month</u> | <u>Months</u> | <u>Months</u> |
| (a) per channel at 2.4 Kbps | \$470.00 | \$17.00 | \$13.50 | \$11.00 |

2. DS0-B Interface

| | | | | |
|---|--------|-------|-------|-------|
| (a) Per group of twenty channels at 2.4 Kbps each | 350.00 | 70.00 | 65.00 | 62.00 |
|---|--------|-------|-------|-------|

B. Interoffice Channel

(a) Per group of twenty channels at 2.4 Kbps each

| | | | | |
|--------------|-------|-------|-------|-------|
| (a) Fixed | 95.00 | 25.00 | 23.00 | 22.00 |
| (b) Per mile | - | 2.05 | 1.90 | 1.75 |

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

A. Basic Flex Serv Service

1. DS0 Channel Connections

| | <u>Nonrecurring Charge</u> | <u>Month to Month</u> | <u>24 to 48 Month</u> | <u>49 to 72 Months</u> | <u>73 to 96 Months</u> |
|-----------------------------------|----------------------------|-----------------------|-----------------------|------------------------|------------------------|
| (a) Voice Grade Type, channel | \$35.00 | \$12.75 | \$12.00 | \$11.25 | \$10.50 |
| (b) Digital Type, per DS0 channel | 35.00 | 5.30 | 5.00 | 4.70 | 4.40 |

2. DS1 Channel Connections

| | <u>Nonrecurring Charge</u> | <u>Month to Month</u> | <u>24 to 48 Month</u> | <u>49 to 72 Months</u> | <u>73 to 96 Months</u> |
|-----------------------------------|----------------------------|-----------------------|-----------------------|------------------------|------------------------|
| (a) Voice Grade Type, channel | \$35.00 | \$12.75 | \$12.00 | \$11.25 | \$10.50 |
| (b) Digital Type, per DS0 channel | 35.00 | 5.30 | 5.00 | 4.70 | 4.40 |

B. Flex Serv Service Options

1. Multipoint Bridging

| | | | | | |
|--|-------|------|------|------|------|
| (a) Voice Grade Connections, per bridging leg | 20.00 | 3.60 | 3.50 | 3.40 | 3.30 |
| (b) Multipoint Junction Unit, per 2.4, 4.8, 9.6 or 56 Kbps channel (must purchase in units of 5) | 15.00 | 4.75 | 4.50 | 4.25 | 4.00 |
| (c) Multipoint Junction Unit, per 19.2 Kbps channel (must purchase in units of 5) | 15.00 | 9.45 | 8.90 | 8.40 | 7.90 |

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Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

B. Flex Serv Service Options (Cont'd)

2. Subrate Reconfiguration Capability

| | | Nonrecurring Charge | | | | |
|-----|--|------------------------|----------------------|-----------------------|-----------------------|----------------------------------|
| (a) | Per DS0 equipped (DS0B) | | | | | \$45.00 |
| | | Nonrecurring Charge | Month to Month | 24 to 48 Months | 49 to 72 Months | 73 to 96 Months |
| (b) | 9.6 Kbps, per DS0A requires 5 | \$5.00 | \$7.15 | \$6.75 | \$6.35 | \$5.95 |
| (c) | 4.8 Kbps, per DS0A requires 10 | 5.00 | 6.75 | 6.40 | 6.05 | 5.70 |
| (d) | 2.4 Kbps, per DS0A requires 20 | 5.00 | 6.35 | 6.00 | 5.65 | 5.30 |
| 3. | <u>Additional Concurrent User Access</u> | | | | | |
| (a) | Per Additional User Access | 125.00 | 63.00 | 60.00 | 57.00 | 54.00 |
| 4. | <u>Additional User Identification Codes</u> | | | | | |
| (a) | Per Additional Code | | | | | Nonrecurring Charge \$3.00 |
| 5. | <u>Additional Customer Training</u> | | | | | |
| (a) | Per eight hour day of training after initial installation | | | | | Nonrecurring Charge 450.00 |
| 6. | <u>Reconfiguration by Company Personnel</u> | | | | | |
| (a) | Request for Company to perform reconfiguration activity | | | | | Nonrecurring Charge 25.00 |

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Regulatory Affairs
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3 High Ridge Park
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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.5 Special Access Service (Cont'd)

A. SmartPath* service Area Connection

1. 1.544 Mbps

| | Nonrecurring <u>First</u> | Charge <u>Add'l</u> | Month to <u>Months</u> | Plan A 24 to 48 <u>Months</u> | Plan B 49 to 72 <u>Months</u> |
|---|------------------------------|------------------------|------------------------------|-------------------------------------|-------------------------------------|
| (a) Per SMARTPath* service Area Connection | \$435.00 | \$140.00 | \$300.00 | \$210.00 | \$200.00 |

B. SmartPath* service Area Junction

1. 1.544 Mbps

| | | | | | |
|---|----------|----------|--------|-------|-------|
| (a) Per Customer Designated Premises | \$435.00 | \$140.00 | 125.00 | 80.00 | 65.00 |
| (b) Per Serving Wire Center Connection | 435.00 | 140.00 | 50.00 | 25.00 | 20.00 |

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Regulatory Affairs
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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.6 Special Federal Government Access Services Offerings

Telecommunications Service Priority (TSP) System (Cont'd)

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff which operates in conjunction with the TSP System.

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|--|------------------------------|---------------------------------|
| (A) Priority Installation (PI) of an Access Service - Invocation Includes System Development, Verification, Confirmation and Preemption * | ICB | ICB |
| (1) Expedited Change Charge Regulations, rates and charges are the same as those set forth for the Switched or Special Access Service for which PI | | PI |

is required.

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

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F. Wayne Lafferty
Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.6 Special Federal Government Access Services Offerings (Cont'd)

Telecommunications Service Priority (TSP) System (Cont'd)

- (2) Utilizing
Specially
Constructed
Facilities Regulations, rates and charges are the same as
those set forth in Section 10 for Special
Construction of the facilities for Switched Access
Service for which PI is required.

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Regulatory Affairs
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3 High Ridge Park
Stamford, CT 06905

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.6 Special Federal Government Access Services Offerings (Cont'd)

Telecommunications Service Priority (TSP) System (Cont'd)

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> | <u>USOC</u> |
|---|------------------------------|---------------------------------|-------------|
| (B) Priority Restoration (PR) Level Implementation on an Access Service | | | |
| (1) When PR level is implemented - includes System Development, Verification and Confirmation * | | | |
| Special Access Per Circuit Arranged | ICB | ICB | |

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
Stamford, CT 06905

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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.6 Special Federal Government Access Services Offerings (Cont'd)

Telecommunications Service Priority (TSP) System (Cont'd)

| | | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|-----|---|------------------------------|---------------------------------|
| (2) | When the PR level is changed on an associated working Access Service - includes Verification and Confirmation | | |
| | Per Circuit | ICB | ICB |
| (3) | Administrative and maintenance of PR Service - includes Reconciliation and Preemption | | |
| | Per Circuit | ICB | ICB |

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Regulatory Affairs
Citizens Telecommunications Company
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ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.7 Miscellaneous Service

| <u>Miscellaneous Service</u> | <u>Time</u> | <u>Basic Overtime</u> | <u>Premium Time**</u> |
|---|-------------|---------------------------|---------------------------|
| Charges for Additional Engineering per Engineer, 1/2 hour or Fraction thereof | ICB | ICB | ICB |
| Charges for Additional Labor per Technician, 1/2 hour or Fraction therof | 29.41 | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | 20.27 | 22.29 | 26.10 |
| Charges for Additional Testing per Technician, 1/2 hour or Fraction thereof | 29.41 | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | 20.27 | 22.29 | 26.10 |
| Charges for Standby per Technician, 1/2 hour or Fraction thereof | 29.41 | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | 20.27 | 22.29 | 26.10 |
| Charges for Programming per Programmer, 1/2 hour or Fraction thereof | 29.41 | 33.77 | 40.69 |
| Each additional 1/2 hour or Fraction thereof | 20.27 | 22.29 | 26.10 |

** Subject to Minimum Charge of Four Hours

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Assistant Vice-President
Regulatory Affairs
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.7 Miscellaneous Service (Cont'd)

| | <u>Monthly Rate</u> |
|---|-------------------------|
| Charges for Additional Testing per Transmission Path, First Point of Switching, per Month | |
| - Automated Scheduled Testing | \$ 0.45 |
| - Additional Cooperative Scheduled Testing | |
| - Basic Offering | \$ 1.62 |
| - Gain Slope | \$ 0.69 |
| - Additional Manual Scheduled Testing | |
| - Basic Offering | \$ 3.23 |
| - Gain Slope | \$ 1.37 |

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Regulatory Affairs
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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.1.7 Miscellaneous Service (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> |
|---|-------------|-------------------------|--------------------------------|
| <u>Equal Access Charges</u> | | | |
| per Telephone Exchange Service Line, Trunk, Pay Telephone | | | |
| - Presubscription Change Charge | NAPS | | |
| IntraLATA PIC Change Charge - per line or trunk | | | \$3.32 |
| *IntraLATA PIC Change Charge - when made simultaneously with interLATA PIC Change to the same carrier, - per line per trunk | | | \$5.00 |
| - ** Unauthorized PIC Change Charge - IntraLATA | | | 22.00 |
| IntraLATA PIC Change Charge - when made simultaneously with interLATA PIC Change to a different carrier, per line or trunk | | | 8.32 |
| - IC CIC Consolidation Charge | | | N/A |
| <u>Special Access Surcharge</u> | S25 | | \$ 25.00 |
| <u>Billing Name and Address Service (BNA)</u> | | | |
| - Billing Name and Address per Order | | | \$ 50.00 |
| - Billing Name and Address Found/Each | | | 0.50 |
| - Billing Name and Address Not Found/Each | | | 0.25 |

* This change is billed to the end user which is the subscriber to the Telephone Exchange Service or the agent of the pay telephone, except as set forth in (D) preceding or in situations when such charges would be billed to an IC.

** As set forth in Section 9.3 preceding, this charge is billed to the IC submitting an unauthorized presubscription charge for an end user which is the subscriber to the Telephone Exchange Service.

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Assistant Vice-President
Regulatory Affairs
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20. Rates and Charges (Cont'd)

20.1 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.1.7 Miscellaneous Service (Cont'd)

| | <u>Monthly USOC</u> | <u>Nonrecurring Rate</u> | <u>Charge</u> |
|--|-------------------------|------------------------------|---------------|
| <u>Blocking</u> | | | |
| 900 Blocking Service | | | |
| - Residence | | | |
| Add Call Blocking, each line | | | N/A |
| Remove Call Blocking, each line | | | N/A |
| - Business | | | |
| Add Call Blocking, each line | | | |
| Remove Call Blocking, each line | | | N/A |
| <u>End User/Agents List</u> | | | |
| -Agent List, NRC | | | |
| per State, per Order | | | \$50.00 |
| -Agent List, Initial | | | |
| per customer Account | | | 0.03 |
| -Agent List, Allocation | | | |
| per Listing | | | 0.03 |
| -Snapshot List, NRC | | | |
| per State, per Order | | | N/A |
| -Snapshot List, | | | |
| per Listing | | | N/A |
| <u>Telecommunications Service Priority</u> | | | |
| -Establishment of TSP System | | | |
| Service Charge | | None | \$14.50 |
| -Restoration Priority | | | |
| | | \$4.90 | None |

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.8 Special Facilities Routing of Access Service

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff to operate in conjunction with this service.

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|--|------------------------------|---------------------------------|
| (A) Special Routing Access Service Area Plan-Setup and Removal, Per End Office or Tandem Office Switching System. (Note 1) (Note 2) | ICB | ICB |
| (B) Special Routing Access Service Trunk Group Setup and Removal, Per End Office Switching System, Per Occurrence (Note 1) (Note 2) | ICB | ICB |

(Note 1) The service setups will only be activated in offices that are specifically negotiated by the customer with the Telephone Company and are mutually agreeable between both parties.

(Note 2) End Offices will be updated for activation and/or deactivation annually.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.8 Special Facilities Routing of Access Service (Cont'd)

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|--|------------------------------|---------------------------------|
| (C) Activation or Deactivation of Special Routing Access Service, Per End Office or Tandem Office Switching System, Per Occurrence | ICB | ICB |
| (D) Special Routing Access Service Trunk Usage, When Activated, Per Trunk, Per Initial Activation Hour | ICB* | ICB |

* This rate is in addition to Trunk Side Premium Access Service rates which apply on an ongoing basis whether SRAS is activated or not.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.8 Special Facilities Routing of Access Service (Cont'd)

| | <u>Recurring Charges</u> | <u>Nonrecurring Charges</u> |
|---|------------------------------|---------------------------------|
| (E) Special Routing Access Service Trunk Usage, When Activated, Per Trunk, Per Subsequent 1/2 Hour | ICB* | ICB |
| (F) Special Routing Access Service Maintenance and Administration, Per End Office or Tandem Office Switching System, Per Month | ICB | ICB |

* This rate is in addition to Trunk Side Premium Access Service rates which apply on an ongoing basis whether SRAS is activated or not.

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.9 (RESERVED)

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.10 Billing and Collection Services

| | | |
|-----|---|---------|
| (1) | Program Development Charge: Per Hour | \$94.00 |
| (2) | Program Implementation: Per Hour | 55.00 |
| (3) | Service Order Change Charge: Per Order | 4.00 |
| (4) | MTS/WATS/800 Services Call Recording Service: Per Message | 0.0150 |
| (5) | MTS/WATS/800 Services Message Processing Service: Per Message | 0.0100 |
| | Assembly and Editing Service: Per Message | 0.0075 |
| (6) | Call Record Provision Service Via Magnetic Tape, Per Message Record Transmitted or Received | 0.01 |
| | Via Direct Interface, Per Message Record Transmitted or Received | 0.002 |

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Regulatory Affairs
Citizens Telecommunications Company
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.10 Billing and Collection Services (Cont'd)

| | | |
|-----|--|----------|
| (7) | Message-Billed Message Bill Processing Service per Message | |
| | 0 to 1,334,099 | \$0.0762 |
| | 1,334,100 to 1,778,799 | 0.0400 |
| | 1,778,800 to 2,668,299 | 0.0200 |
| | 2,668,300 to 4,002,399 | 0.0170 |
| | 4,002,400 to 4,892,000 | 0.0160 |
| | Greater than 4,892,000 | 0.0150 |
| (8) | Bulk-Billed Message Bill Processing Service per Message | 0.0200 |
| (9) | MTS/WATS/800 Service Bill Rendering Service, per Bill | |
| | 0 to 42,300 | 0.3500 |
| | 42,301 to 61,100 | 0.3000 |
| | 61,101 to 195,999 | 0.2700 |
| | 196,000 to 209,999 | 0.2500 |
| | Greater than 209,999 | 0.2300 |

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Regulatory Affairs
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20. Rates and Charges (Cont'd)

20.2 Citizens Telecommunications Companies - CTC of the Volunteer State (Cont'd)

20.2.10 Billing and Collection Services (Cont'd)

| | | |
|------|--|--------|
| (10) | MTS/WATS/800 Services Message Investigation, per Message | \$2.50 |
| (11) | Citizens Billing Services #1 per message | 0.0634 |
| | Inquiry Service, per message | 0.0078 |
| | Adjustment, per message | 2.00 |
| (12) | Citizens Billing Services #2, Per Message | |
| | Messages Per End User Account Per Month | |
| | 1-10 Message | 0.0310 |
| | Over 10 Messages | 0.0190 |
| (13) | EC Memo, per Account | 10.00 |
| (14) | Record Keeping, per Account | 0.0300 |
| (15) | Centralized Message Dispersion charge, per Message | 0.002 |

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Assistant Vice-President
Regulatory Affairs
Citizens Telecommunications Company
3 High Ridge Park
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20.2 Citizens Telecommunications Companies - **CTC of the Volunteer State** (Cont'd)

20.2.10 Billing and Collection Services (Cont'd)

(B) In accordance with 14.1.2(C)(1)(b), the rates and charges will be developed on an individual case basis and listed below.

(Reserved for Future Use)

(C) In accordance with 14.1.2(C)(2)(c), the rates and charges will be developed on an individual case basis and listed below.

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Regulatory Affairs
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Stamford, CT 06905