

ACCESS SERVICE

Regulations, Rates and Charges
applying to the provision of Access Services
within a Local Access and Transport Area (LATA) or
equivalent Market Area for connection to interstate
communications facilities for Interstate Customers within
the operating territories of

TDS METROCOM, LLC

and

Issuing Carriers
as provided herein.

Issued: June 19, 2003

Effective: June 20, 2003

Vice President - Marketing
TDS METROCOM, LLC
525 Junction Road, Suite 6000
Madison Wisconsin 53717

TDS METROCOM, LLC

TARIFF F.C.C. NO. 4
Third Revised Title Page 2
Cancels Second Revised Title Page 2

ACCESS SERVICE

ISSUING CARRIERS

APPROVED

(D)
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(D)

TDS Metrocom, LLC
525 Junction Rd., Suite 6000
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Issued: September 11, 2014

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ACCESS SERVICE

APPROVEDCHECK SHEET

Title Page 1 and Pages 1 to 15-87 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below contain all changes from the original tariff that are in effect on the date hereof.

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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 MARKS

NONE

REGISTERED TRADEMARKS

NONE

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EXPLANATION OF SYMBOLS

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

EXPLANATION OF ABBREVIATIONS

| | | |
|--------|---|--|
| ADA | - | Abbreviated Dialing Arrangement |
| AML | - | Actual Measured Loss |
| ANI | - | Automatic Number Identification |
| AP | - | Program Audio |
| AT&T | - | American Telephone and Telegraph Company |
| BHMC | - | Busy Hour Minutes of Capacity |
| CCS | - | Common Channel Signaling |
| CDP | - | Customer Designated Premises |
| CI | - | Channel Interface |
| CIR | - | Committed Information Rate |
| CNP | - | Charge Number Parameter |
| CO | - | Central Office |
| Cont'd | - | Continued |
| CPE | - | Customer Provided Equipment |
| CPN | - | Calling Party Number |
| CSP | - | Carrier Selection Parameter |
| DA | - | Directory Assistance |
| dB | - | decibel |
| DBrnC | - | Decibel Reference Noise C-Message Weighting |
| DBrncO | - | Decibel Reference Noise C-Message Weighted O |
| dc | - | direct current |
| DDD | - | Direct Distance Dialing |
| EAS | - | Extended Area Service |
| EDD | - | Envelope Delay Distortion |
| EML | - | Expected Measured Loss |
| EPL | - | Echo Path Loss |
| ERL | - | Echo Return Loss |
| ESS | - | Electronic Switching System |
| ESSX | - | Electronic Switching System Exchange |
| f | - | frequency |
| F.C.C. | - | Federal Communications Commission |
| FRAS | - | Frame Relay Access Service |

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EXPLANATION OF ABBREVIATIONS (Cont'd)

| | | |
|-------|---|---|
| HC | - | High Capacity |
| Hz | - | Hertz |
| IC | - | Interexchange Carrier |
| ICB | - | Individual Case Basis |
| ICL | - | Inserted Connection Loss |
| kbps | - | kilobits per second |
| kHz | - | kilohertz |
| LAN | - | Local Area Network |
| LATA | - | Local Access and Transport Area |
| ma | - | milliamperes |
| Mbps | - | Megabits per second |
| mcs | - | Microsecond |
| MHz | - | Megahertz |
| MRC | - | Monthly Recurring Charge |
| MT | - | Metallic |
| MTS | - | Message Telecommunications Service(s) |
| NPA | - | Numbering Plan Area |
| NRC | - | Nonrecurring Charge |
| NXX | - | Three-Digit Central Office Prefix |
| PBX | - | Private Branch Exchange |
| PIC | - | Presubscribed Interexchange Carrier |
| POT | - | Point of Termination |
| PVC | - | Permanent Virtual Connection |
| SAC | - | Service Access Code |
| SNAL | - | Signaling Network Access Line |
| SP | - | Signaling Point |
| SPOI | - | Signaling Point of Interface |
| SRL | - | Singing Return Loss |
| SSP | - | Service Switching Point |
| SS7 | - | Signaling System 7 |
| STP | - | Signal Transfer Point |
| SWC | - | Serving Wire Center |
| TG | - | Telegraph Grade |
| TLP | - | Transmission Level Point |
| TV | - | Television |
| VG | - | Voice Grade |
| V & H | - | Vertical & Horizontal |
| WATS | - | Wide Area Telecommunications Service(s) |
| WSC | - | Wireless Switching Center |
| WSO | - | WATS Serving Office |

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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.

The following tariffs are referenced in this tariff and may be obtained from the Federal Communications Commission's commercial contractor:

National Exchange Carrier
Association, Inc.
Wire Center Information
Tariff F.C.C. No. 4

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 Ave., Piscataway, NJ 08854-4196.

Technical Reference:

Multiple Exchange Carrier Access Billing (MECAB) Guidelines
Issued: June 1994

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines
Issued: May 1994

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

PUB 62310 (MDP-326-726) 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-NPL-000258 Compatibility Information for Feature Group D Switched Access Service
Issued: October 1985

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

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

TR-TSY-000335, Issue 2 Voice Grade Special Access Service - Transmission
Parameter Limits and Interface Combinations
Issued: May 1990

TR-NWT-000341 Digital Data Special Access Service - Transmission
Parameter Limits and Interface Combinations
Issued: Issue 2, February 1993

TR-INS-000342 High Capacity Digital Special Access Service
Issued: February 1991

SR-STS-000307 Issue 5 NC/NCI Code Dictionary
Issued: May 1994

TR-TSY-000506 LATA Switching Systems Generic Requirements (LSSGR)
Section 6
Issued: October 1987, Revised December 1988, Revised June 1990

TR-NPL-000054 High Capacity Digital Service (1.544 Mbs) Interface Generic
Requirements for End Users
Issued: April 1989
Available: April 1989

TR-TSV-000905 Common Channel Signaling Network Interface
Specification Supplement 1
Available: August 1989

TR-TSV-001370 Generic Requirements for Exchange Access
Frame Relay PVC Service
Issued: Issue 1, May 1993

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the Bell Communications 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

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Director - Access Tariffs, 100 So. Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1, Issue II Access Service
Issued: May 1984
Addendum: March 1987

The following publications are referenced in this tariff and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 N. Capital 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 3-1-2).

Issued: July 1990
Available: August 1990

Telecommunication Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCSM 3-1-1).

Issued: July 1990
Available: August 1990

The following publication is referenced in this tariff and may be obtained from Director-Sales Operations, Integrated Network Corporation, P.O. Box 6875, Bridgewater, NJ 08807.

Integrated Network Corporation
Document CB-INC-100
Available: June 1990

The following publication is referenced in this tariff and may be obtained from AT&T, 26 Parsippany Road, Whippany, NJ 07981.

AT&T PUB 62310
(and its Addendum 2 and Addendum 3)
Available: October 1989

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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

ANSI T1.602-1989, Integrated Services Digital Network (ISDN) - Data-Link Layer Signalling Specification for Application at the User-Network Interface.

ANSI T1.606-1990, Integrated Services Digital Network (ISDN) - Architectural Framework and Service Description for Frame-Relaying Bearer Service.

ANSI T1.606a-1992, Supplement to ANSI T1.606-1990 Integrated Services Digital Network (ISDN) - Architectural Framework and Service Description for Frame-Relaying Bearer Service (Congestion Management and Frame Size).

ANSI T1.606b-1993, Supplement to ANSI T1.606-1990 Integrated Services Digital Network (ISDN) - Architectural Framework and Service Description for Frame-Relaying Bearer Service (Network-to-Network Interface Requirements).

ANSI T1.617-1991, Integrated Services Digital Network (ISDN) - Signaling Specification for Frame Relay Bearer Service for Digital Subscriber Signaling System Number 1 (DSS1).

ANSI T1.617a-1994, Integrated Services Digital Network (ISDN) - Signaling Specification for Frame Relay Bearer Service for Digital Subscriber Signaling System Number 1 (DSS1) Protocol Encapsulation and PICS).

ANSI T1.618-1991, Integrated Services Digital Network (ISDN) - Core Aspects of Frame Protocol for Use with Frame Relay Bearer Service.

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ACCESS SERVICE

1. Application of Tariff

1.1 This tariff contains regulations, rates and charges applicable to the provision of Switched Access and other miscellaneous services, hereinafter referred to collectively as service(s), not subject to contracts. These services are provided to customers by the Issuing Carriers of this tariff, hereinafter the Telephone Company. This tariff also contains Access Ordering regulations and charges that are applicable when these services are ordered or modified by the customer.

(T)

1.2 The provision of such services by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with the customer for the furnishing of any service.

ACCESS SERVICE

2. General Regulations2.1 Undertaking of the Telephone Company2.1.1 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 services it provides.
- (C) The Telephone Company will, for maintenance purposes, test its service only to the extent necessary to detect and/or clear troubles.
- (D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable 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.

2.1.2 Limitations(A) Assignment or Transfer of Services

The customer may assign or transfer the use of services provided under this tariff only where there is no interruption of use or relocation of the services. Such assignment or transfer may be made to:

- (1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.2 Limitations (Cont'd)(A) Assignment or Transfer of Services (Cont'd)

- (2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

In all cases of assignment or transfer, the written acknowledgment of the Telephone Company is required prior to such assignment or transfer. This acknowledgment shall be made within 15 days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee.

The assignment or transfer of services does not relieve or discharge the assignor or transferor from remaining jointly or severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

(B) Use and Restoration of Services

The use and restoration of services shall be in accordance with Part 64, Subpart D, Appendix A, of the Federal Communications Commission's Rules and Regulations, which specifies the priority system for such activities.

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.2 Limitations (Cont'd)(C) Sequence of Provisioning

Subject to compliance with the rules mentioned in (B) preceding, the services offered herein will be provided to customers on a first-come, first-served basis.

The first-come, first-served sequence shall be based upon the received time and date recorded, by stamp or other notation, by the Telephone Company on customer access orders. These orders must contain all the information as required for each respective service as delineated in other sections of this tariff. Customer orders shall not be deemed to have been received until such information is provided. Should questions arise which preclude order issuance due to missing information or the need for clarification, the Telephone Company will attempt to seek such missing information or clarification on a verbal basis.

2.1.3 Liability(A) Limits of Liability

The Telephone Company's liability, if any, for its willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, and subject to the provisions of (B) through (G) following, the Telephone Company's liability if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability (Cont'd)(B) Acts or Omissions

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.

(C) Damages to Customer Premises

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

(D) Indemnification of Telephone Company(1) By the End User

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability (Cont'd)(D) Indemnification of Telephone Company (Cont'd)(1) By the End User (Cont'd)

(B) 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 customer or;

(C) 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.

(2) By the Customer

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

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

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability (Cont'd)(E) Explosive Atmospheres

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.

(F) No License Granted

No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff. The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.

(G) Circumstances Beyond the Telephone Company's Control

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 2.4.4 following.

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.4 Provision of Services

The Telephone Company will provide to the customer, upon reasonable notice, services offered in other applicable sections of this tariff at rates and charges specified therein. Services will be made available to the extent that such services are or can be made available with reasonable effort, and after provision has been made for the Telephone Company's telephone exchange services.

2.1.5 Facility Terminations

The services provided under this tariff 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 suitable location inside a customer-designated premises. Such wiring or cable will be installed by the Telephone Company to the Point of Termination.

2.1.6 Service Maintenance

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.

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, substitute, change or rearrange any facilities used in providing service under this tariff. Such actions may include, without limitation:

- substitution of different metallic facilities,
- substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities,
- substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities,
- substitution of fiber or optical facilities,
- change of minimum protection criteria,
- change of operating or maintenance characteristics of facilities, or
- change of operations or procedures of the Telephone Company.

In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 13. following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement 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 change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

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) If a customer fails to comply with 2.1.6 preceding (Service Maintenance) or 2.3.1, 2.3.4, 2.3.6, 2.4.1 or 2.5 following (respectively, Damages, Availability for Testing, Balance, Payment Arrangements, Connections) including any customer's failure to make payments on the date and times therein specified, the Telephone Company may, on thirty (30) days written notice to the customer by Certified U.S. Mail, take the following actions:

- refuse additional applications for service and/or refuse to complete any pending orders for service, and/or
- discontinue the provision of service to the customer.

In the case of discontinuance all applicable charges, including termination charges, shall become due.

(B) If a customer fails to comply with 2.2.2 following (Unlawful and Abusive Use), the Telephone Company may, upon written request from a customer, or another exchange carrier, terminate service to any subscriber or customer identified as having utilized service provided under this tariff in the completion of abusive or unlawful telephone calls. Service shall be terminated by the Telephone Company as provided for in its general and/or local exchange service tariffs.

In such instances when termination occurs the Telephone Company shall be indemnified, defended and held harmless by any customer or Exchange Carrier requesting termination of service against any claim, loss or damage arising from the Telephone Company's actions in terminating such service, unless caused by the Telephone Company's negligence.

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) Except as provided for equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R. Section 68.108, if the customer fails to comply with 2.2.1 following (Interference or Impairment), the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, the Telephone Company may temporarily discontinue service forthwith if such action is reasonable in the circumstances. In case of such temporary discontinuance, the customer will be notified promptly and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

- (D) 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 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.

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)

(E) If the Telephone Company does not refuse additional applications for service and/or does not discontinue the provision of the services as specified for herein, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service and/or to discontinue the provision of the services to the non-complying customer without further notice.

(F) The Telephone Company may refuse service where it is not the carrier of last resort.

(N)
(N)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.1 Undertaking of the Telephone Company (Continued)

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 the normal operation of its business. Such activities may include, but are not limited to the following:

- 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, but may affect many customer services. No specific advance notification period is applicable to all service activities. The Telephone Company will work cooperatively with the customer to determine reasonable notification requirements.

2.1.10 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.

2.1.11 Reserved for Future Use

(T)

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(D)

ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.12 Special Construction

Subject to the arrangement of the Company and to all of the regulations contained in this tariff, special construction of facilities may be undertaken on a reasonable efforts basis at the request of the Customer. Special Construction is that construction undertaken and characterized by one or more of the following:

- 2.1.12.A where facilities are not presently available and there is no other requirement for the facilities so constructed;
- 2.1.12.B of a type other than that which the Company would normally utilize in the furnishing of its services;
- 2.1.12.C where facilities are to be installed over a route other than that which the Company would normally utilize in the furnishing of its services;
- 2.1.12.D where facilities are requested in a quantity greater than that which the Company would normally construct;
- 2.1.12.E where installation is on an expedited basis;
- 2.1.12.F on a temporary basis until permanent facilities are available;
- 2.1.12.G installation involving abnormal costs; or
- 2.1.12.H in advance of its normal construction schedules.

Special construction charges for Switched Access Services will be determined as described in Section 9 following.

ACCESS SERVICE

2. General Regulations (Cont'd)2.2 Use2.2.1 Interference or Impairment

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.

2.2.2 Unlawful and Abusive Use

- (A) The service provided under this tariff shall not be used for an unlawful purpose or used in an abusive manner.

Abusive use includes:

- (1) The use of the service of the Telephone Company for a call or calls, anonymous or otherwise, in a manner reasonably expected to frighten, abuse, torment, or harass another;
- (2) The use of the service in such a manner as to interfere unreasonably with the use of the service by one or more other customers.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to 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 and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

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. The equipment shall be returned in as good condition as reasonable wear will permit.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)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 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 spaces at reasonable times for installing, testing, repairing or removing Telephone Company facilities used to provide services.

2.3.4 Availability for Testing

Access to facilities used to provide services 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. As set forth in 2.4.4(C)(4) following, no credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Reserved for Future Use

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.6 Balance

All signals for transmission over the facilities used to provide services under this tariff shall be delivered by the customer balanced to ground except for ground start, duplex (DX) and McCulloch-Loop.

(D)
(D)

2.3.7 Design of Customer Services

Subject to the provisions of 2.1.7 preceding (Changes and Substitutions), 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.

2.3.8 References 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.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.9 Claims and Demands for Damages

- (A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.
- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses and 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 Telephone Company's services provided under this tariff including, without limitation, Worker'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 tortious conduct of the customer, its officers, agents or employees.
- (C) 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 of omission of the customer in the course of using services provided under this tariff.

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ACCESS SERVICE

2. General Regulations (Continued)

2.3 Obligations of the Customer (Continued)

2.3.10 Coordination with Respect to Network Contingencies

The customer shall, in cooperation with the Telephone Company, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.11 Jurisdictional Reports and Certification Requirements

(D)

(D)

(B) Jurisdictional Reports – Switched Access

For Switched Access Service, the Telephone Company cannot in all cases determine the jurisdictional nature of Customer traffic and its related access minutes. In such cases the Customer may be called upon to provide a projected estimate of its traffic, split between the interstate and intrastate jurisdictions. The following regulations govern such estimates, their reporting by the Customer and cases where the Telephone Company will develop jurisdictional percentages.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Reports and Certification Requirements (Cont'd) (T)(B) Jurisdictional Reports – Switched Access (Cont'd)(1) Percent Interstate Usage (PIU) (T)

For purposes of developing the projected interstate percentage for Switched Access services, every call that originates from a calling party in one state and terminates to a called party in a different state shall be considered to be interstate communications. Every call that terminates to a called party within the same state as the state where the calling party is located shall be considered to be intrastate communications. The manner in which a call is routed through the telecommunications network does not affect the jurisdiction of a call, i.e., a call between two points within the same state is an intrastate call even if it is routed through another state.

(2) Jurisdictional Reports

When the Telephone Company receives sufficient call detail to permit it to determine the jurisdiction of some or all originating and terminating access minutes of use, the Telephone Company will use that call detail to render bills for those minutes of use and will not use PIU factor (s) to determine the jurisdiction of those minutes of use.

The Telephone Company will apply the PIU factor(s) provided by the Customer only to access services specified in Section 2.3.11 (B) (3) (a). Such PIU factor (s) will be used until the Customer provides an update to its PIU factor (s) as set forth below.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Reports and Certification Requirements (Cont'd) (T)(B) Jurisdictional Reports - Switched Access (Cont'd)(2) Jurisdictional Reports (Cont'd) (T)

Effective on the first of January, April, July and October of each year, the Customer shall provide a revised jurisdictional report showing the interstate and intrastate percentage of use by end office for the past three months ending the last day of December, March, June and September, respectively, for each service arranged for interstate use. The Customer shall forward the update report to the Telephone Company, to be received no later than fifteen (15) days after the first of each such month. Such revised report will serve as the basis for the next three month's billing for determining the jurisdiction of Switched Access Services as described in Section 2.3.11 (B) (3) (a) in cases where the Telephone Company does not have sufficient call detail to do so and will be effective on the bill date of that service. No prorating or back billing will be done based on the revised report.

If the Customer does not supply the revised report, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report. In those cases where a quarterly report has never been received, the Telephone Company will assume the percentages to be the same as those provided in the Customer's order for service or as developed by the Telephone Company as specified below. (T)

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Reports and Certification Requirements (Cont'd) (T)(B) Jurisdictional Reports - Switched Access (Cont'd)(3) Use of PIU Factors (T)

- (a) 500 Access Service, 700 Access Service, 900 Access Service, Toll Free Access Service

The Customer shall provide projected PIU factor (s) for 500, 700, 900 and Toll Free Access Services for each end office when placing an order and as specified in Section 2.3.11 (B) (2), above. Such PIU factors are applied where the Telephone Company does not receive sufficient call detail to determine the jurisdiction. If the Customer fails to provide a PIU factor (s) for these Access Services, the Telephone Company will develop PIU factor (s) by end office by dividing either the Customer's measured interstate originating access minutes by the Customer's total measured originating access minutes or the Customer's measured interstate terminating access minutes by the Customer's total measured terminating access minutes, whichever method the Telephone Company determines produces the more representative result. If there is insufficient call detail to allow the Telephone Company to develop a PIU factor for any of these Access Services, the projected PIU will be set on a default basis of 50 percent interstate traffic and 50 percent intrastate traffic. (T)

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Reports and Certification Requirements (Cont'd) (T)(B) Jurisdictional Reports - Switched Access (Cont'd)(3) Use of PIU Factors (Cont'd) (T)

(b) All Other Switched Access Services

With the exception of those Switched Access Services noted in Section 2.3.11 (B) (3) (a) above the Telephone Company will developed PIU factor (s) to be used for minutes of use for which the Telephone Company does not have sufficient call detail to determine the jurisdiction.

For originating access minutes, the Telephone Company will develop PIU factor (s) by end office by dividing either the Customer's measured interstate originating access minutes by the Customer's total measured originating access minutes or the Customer's measured interstate terminating access minutes by the Customer's total measured terminating access minutes, whichever method the Telephone Company determines produces the more representative result.

For terminating access minutes, the Telephone Company shall develop PIU factor (s) by end office by dividing either the Customer's measured interstate originating access minutes by the Customer's total measured originating access minutes or the Customer's measured interstate terminating access minutes by the Customer's total measured terminating access minutes, whichever method the Company determines produces the more representative result. When the Company receives insufficient call detail to determine the jurisdiction of all or some of the Customer's terminating access minutes, the Company will apply the PIU factor (s) developed by the Company. If there is insufficient call detail to allow the Company to develop a PIU factor, the projected PIU will be set on a default basis of 50 percent interstate traffic and 50 percent intrastate traffic. (T)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Reports and Certification Requirements (Cont'd)

(T)

(B) Jurisdictional Reports - Switched Access (Cont'd)

(3) Use of PIU Factors (Cont'd)

(T)

(c) Flat Rated Switched Access Services

The PIU factors for use of such flat rated elements should reflect the combined originating and terminating traffic using such facilities. The Telephone Company will develop PIU factor (s) by end office by dividing the Customer's measured interstate originating plus terminating access minutes by the Customer's total measured originating plus terminating access minutes. If there is insufficient call detail to allow the Telephone Company to develop a PIU factor for such facilities, the projected PIU will be set on a default basis of 50 percent interstate traffic and 50 percent intrastate traffic.

(T)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Reports and Certification Requirements (Cont'd)

(T)

(C) Jurisdictional Report Verification

(T)

If the Telephone Company disputes the reasonableness of the PIU provided by the Customer or the reported PIU varies by more than five percentage points over the preceding PIU, the Telephone Company may ask the Customer to provide the data used by the Customer to determine the projected interstate percentage. The Customer shall retain for a minimum of six months all detail records from which the percentage of interstate and intrastate use can be derived and shall make such records available for inspection as reasonably necessary for PIU verification. Such records shall be made available for inspection and audit within fifteen (15) days of the Telephone Company's request for verification.

(T)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(D) Billing Disputes Involving Jurisdictional Reports - Switched Access

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 customer shall supply the data within thirty (30) days of the Telephone Company request.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.12 Determination of Interstate Charges for Mixed Interstate and Intrastate Switched Access Service

When mixed interstate and intrastate Switched Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between interstate and intrastate. The percentage determined as set forth in 2.3.11 preceding will serve as the basis for prorating the charges unless the Telephone Company is billing according to actuals by jurisdiction. The percentage of an Access Service to be charged as interstate is applied in the following manner:

(A) Monthly and Nonrecurring Charges

For monthly and nonrecurring chargeable rate elements, multiply the percent interstate use times the quantity of chargeable elements times the stated tariff rate.

(B) Usage Sensitive Charges

For usage sensitive (i.e., access minutes and calls) chargeable rate elements, multiply the percent interstate use times actual use (i.e., measured or Telephone Company assumed average use) times the stated tariff rate.

The interstate percentage may change as revised usage reports are submitted as set forth in 2.3.11 preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances2.4.1 Payment of Rates, Charges and Deposits(A) Deposits

The Telephone Company will only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company. Such deposit will not exceed the actual or estimated rates and charges for the service for a two month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded.

Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the same percentage rate as that set forth in (C)(2)(a) or in (C)(2)(b) following, whichever is lower.

The rate will be compounded daily for the number of days from the date the customer deposit is received by the Telephone Company to and including the date such deposit is credited to the customer's account or the date the deposit is refunded by the Telephone Company. Should a deposit be credited to the customer's account, as indicated above, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Bill Dates

The Telephone Company shall bill all charges incurred by and credits due to the customer under this tariff attributable to services established or discontinued. In addition, the Telephone Company shall bill in advance charges for all services to be provided during the ensuing billing period except for charges associated with service usage and for the Federal Government which will be billed in arrears. The bill day (i.e., the billing date of a bill for a customer for Access Service under this tariff), the period of service each bill covers and the payment date will be as follows:

(T)
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(T)

(1) End User Access Service and Presubscription

For End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each end user account. The bill will cover End User Access Service charges for the ensuing billing period except for End User Access Service for the Federal Government which will be billed in arrears. Any applicable Presubscription Charges, any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for End User Access Service and Presubscription Service will be applied to this bill. Such bills are due when rendered.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Bill Dates (Cont'd)

(2) Access Services Other Than End User and Presubscription

For Service other than End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each customer account.

(D)
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(D)

The bill will cover non-usage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled non-usage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and any known unbilled adjustments will be applied to this bill. Payment for such bills is due in immediately available funds by the payment date, as set forth in (C) following. If payment is not received by the payment date, a late payment penalty will apply as set forth in (C) following.

ACCESS SERVICE

2. General Regulations(Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(C) Payment Dates and Late Payment Penalties

- (1) All bills dated as set forth in (B)(2) preceding for service, other than End User Service and Presubscription Service, provided to the customer by the Telephone Company are due 31 days (payment date) 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 the customer does not receive a bill at least 20 days prior to the 31 day payment due date, then the bill shall be considered delayed. When the 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 of the customer must be accompanied with proof of late bill receipt.

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

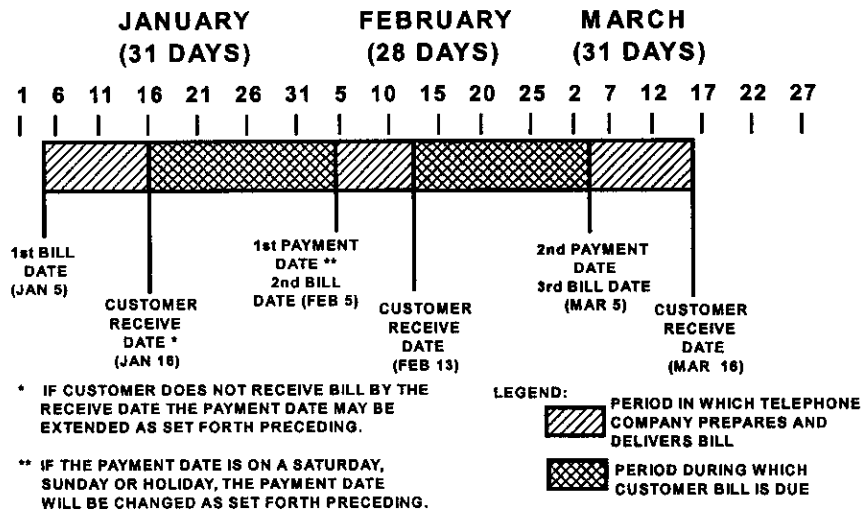
(C) Payment Dates and Late Payment Penalties (Cont'd)

(1) (Cont'd)

If such payment date would cause payment to be due on a Saturday, Sunday or Legal Holiday, payment for such bills will be due from the customer as follows:

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

EXAMPLE: CALCULATION OF PAYMENT DATES



ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(C) Payment Dates and Late Payment Penalties (Cont'd)

(2) 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 (1) 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 Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the payment or the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

(a) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or

(b) 0.000292 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

(D) Billing Disputes Resolved in Favor of the Telephone Company

Late payment charges will apply to amounts withheld pending settlement of the dispute. Late payment charges are calculated as set forth in (C)(2) preceding except that when the customer disputes the bill on or before the payment date and pays the undisputed amount on or before the payment date, the penalty interest period shall not begin until 10 days following the payment date.

ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(E) Billing Disputes Resolved in Favor of the Customer

If the customer pays the total billed amount and disputes all or part of the amount, the Telephone Company will refund any overpayment. In addition, the Telephone Company will pay to the customer penalty interest on the overpayment. When a claim is filed within 90 days of the due date, the penalty interest period shall begin on the payment date. When a claim is filed more than 90 days after the due date, the penalty interest period shall begin from the date of the claim or the date of overpayment, whichever is later.

The penalty interest period shall end on the date that the Telephone Company actually refunds the overpayment to the customer. The penalty interest rate shall be the lesser of:

- (1) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the first date to and including the last date of the period involved, or
- (2) 0.000292 per day, compounded daily for the number of days from the first date to and including the last date of the period involved.

(F) Proration of Charges

Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days based on a 30 day month. The Telephone Company will, upon request, furnish within 30 days of a request and at no charge to the customer such detailed information as may reasonably be required for verification of any bill.

ACCESS SERVICE

2. General Regulations (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.1 Payment of Rates, Charges and Deposits (Continued)

(G) Rounding of Charges

When a rate as set forth in this tariff is shown to more than two 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 decimal places).

(H) Billing Corrections

When billing adjustments or credits are required to correct prior billed charges, any billing adjustment or credit will be limited to the six (6) month period prior to date incorrect billing was discovered.

2.4.2 Minimum Periods/Early Termination Liability

The minimum period for Switched Access DS3 Intermediate Transport Service is twelve months. (T)

(T)

Switched Access usage rated services have no minimum period.

The minimum period for which all other Access Service is provided and for which charges are applicable is one month, unless otherwise stated in a Term Agreement Plan entered into by Customer.

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.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 **Payment Arrangements and Credit Allowances** (Continued)

2.4.2 **Minimum Periods/Early Termination Liability** (Continued)

(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 total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

(C) When a service has a term discount and is disconnected before the expiration of the term, Early Termination Liability Charges will apply. The charges are calculated by taking the monthly recurring rate multiplied by the remaining term multiplied by 50%. For example: If the monthly rate is \$2,000 and the months remaining on the term are 20, the charge would be \$2,000 x 20 x 50% for an Early Term Liability Charge of \$20,000.

2.4.3 **Cancellation of an Order for Service**

Provisions for the cancellation of an order for service are set forth in other applicable sections of this tariff.

2.4.4 **Credit Allowance for Service Interruptions**

(A) **General**

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component 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.

(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 provided.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.4 Credit Allowance for Service Interruptions (Continued)

(B) When a Credit Allowance Applies (Continued)

Credit allowances are computed as follows:

(1) Flat Rated Switched Access Service Rate Elements (T)

No credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or Major Fraction Thereof that the interruption continues. (T)
| (T)

The monthly charges used to determine the credit shall be as follows:

(a) Two-point Services

For two-point services, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., channel mileage terminations, channel mileage facility and optional features and functions). (T)
(T)

(b) Reserved for Future Use

ACCESS SERVICE

2. General Regulations (Continued)2.4 Payment Arrangements and Credit Allowances (Continued)2.4.4 Credit Allowance for Service Interruptions (Continued)(B) When a Credit Allowance Applies (Continued)(1) Flat Rated Switched Access Service Rate Elements (Continued) (T)(c) Multiplexed Services

For multiplexed services, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service. When the service which rides a channel of the multiplexed facility is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the hub to a customer premises.

(d) Flat rated Switched Access rate elements

For flat rated Switched Access Service rate elements, the monthly charge shall be the total of all the monthly rate element charges associated with the service.

ACCESS SERVICE

2. General Regulations (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.4 Credit Allowance for Service Interruptions (Continued)

(B) When a Credit Allowance Applies (Continued)

(1) Flat Rated Switched Access Service Rate Elements (Continued) (T)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(2) Reserved for Future Use

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(3) Switched Access Service Usage Rated Elements

For Switched Access Service usage rated elements, 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 rate or assumed minutes of use charge for each period of 24 hours or major fraction thereof that the interruption continues.

ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(B) When a Credit Allowance Applies (Cont'd)(4) Credit Allowances Cannot Exceed Monthly Rate

The credit allowance(s) for an interruption or for a series of interruptions shall not exceed any monthly rate for the service interrupted in any one monthly billing 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 a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a 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 (B) preceding applies.

ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(C) When a Credit Allowance Does Not Apply (Cont'd)

- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, 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.
- (6) Periods when the customer elects not to release the service for 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, that would result in credit in an amount less than one dollar.

(D) Use of an Alternative Service Provided by the Telephone Company

Should the customer elect to use 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.

ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(E) Temporary Surrender of a Service (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 1/1440 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.

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence(A) Nonrecurring Charges Do Not Apply

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

- (1) The service is of the same type as was provided prior to the fire, flood or other occurrence.
- (2) The service is for the same customer.
- (3) The service is at the same location on the same premises.
- (4) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60 day period may be extended a reasonable period if the renovation of the original location on the premises affected is not practical within the allotted time period).

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 **Payment Arrangements and Credit Allowances** (Continued)

2.4.5 **Re-establishment of Service Following Fire, Flood or Other Occurrence**
(Continued)

(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.

2.4.6 **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.

2.4.7 **Access Services Provided by More Than One Telephone Company**

When an Access Service is provided by more than one Telephone Company, the Telephone Company will utilize the billing method as set forth in (B) (2) following based on the service being provided. The customer will place the order for the service as set forth in 5.3 following.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing

Meet Point Billing is required when an access service is provided by multiple Telephone Companies for Feature Groups C and D Switched Access Services.

(T)

ACCESS SERVICE

2. General Regulations (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(1) Single Bill/Single Tariff

The single bill/single tariff bill provides a meet point bill that is billed completely at the Billing Rendering Company's tariff rates and regulations. Single Bill/Single Tariff is only available for Special Access requests.

The Bill Rendering Company will:

- determine and include on the access bill all usage data and all other recurring and nonrecurring rates and charges per its access tariff; and
- forward the bill to the customer.

The customer will remit the payment to the Bill Rendering Company.

(N)

(N)

The Telephone Company will provide notice thirty days prior to changing an existing meet point arrangement. NECA Tariff F.C.C. No. 4 will be updated as needed to reflect changes to Meet Point Arrangements.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(D)

(D)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(D)

(D)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 **Payment Arrangements and Credit Allowances** (Continued)

2.4.7 **Access Services Provided by More Than One Telephone Company**
(Continued)

(B) **Meet Point Billing** (Continued)

(D)

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(D)

(D)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(D)

(D)

(2) Multiple Bill

(T)

Under the Multiple Bill each company providing the access service will render an access bill to the customer for its portion of the service based on its access tariff rates and regulations. For switched access Multiple bills, the end office company is generally the Initial Billing Company (IBC). The IBC is the company that calculates the access minutes to be billed to the customer and provides this data to each connecting company providing service, i.e., the Subsequent Billing Company(s). Each company will:

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(2) Multiple Bill (Continued)

(T)

- prepare its own bill;
- determine its charge(s) for Transport and/or Channel Mileage as set forth in (3) following; (T)
- determine and include all recurring and nonrecurring rates and charges of its access tariff;
- reflect its Billing Account Reference (BAR) and all connecting company Billing Account Cross Reference (BACR) code(s);
- forward its bill to the customer.

The customer will remit payment directly to each Bill Rendering Company.

(3) Determination of Meet Point Billed Transport and Channel Mileage Charges

(T)

(T)

Each Telephone Company's portion of the Transport and Channel Mileage will be developed as follows:

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(T)

- (a) Determine the appropriate Transport or Channel Mileage by computing the number of airline miles between the Telephone Company premises using the V&H method set forth in 7.2.5 following.

(T)(M)

(T)(M)

(M) Text previously listed on Page 2-54

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Transport Directory and
Channel Mileage Charges (Continued)

(T)
(T)

(D)
(T)(M)
(T)(M)

(b) Determine the billing percentage (BP), as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, which represents the portion of the service provided by each Telephone Company.

(c) Reserved For Future Use

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(D)

(D)

(M) Text moved to Page 2-53

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Transport and Channel
Mileage Charges (Continued) (T)

(d) For Feature Groups C and D Direct Trunked Transport: (T)

- multiply the number of airline miles, as set forth in (a) preceding, times the BP for each Telephone Company, as set forth in (b) preceding, times the Direct Trunked Facility rate.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Transport and Channel
Mileage Charges (Continued)

(e) For Feature Groups C and D.

- When the Entrance Facility and/or Multiplexing equipment is located within the operating territory of the Telephone Company, the Entrance Facility and/or Multiplexing charge will apply.
- The Billing Percentage (BP) is not applicable to the Entrance Facility or Multiplexer.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Transport and Channel
Mileage Charges (Continued)

- (g) When three or more Telephone Companies are involved in providing an Access Service, the intermediate Telephone Company(s) will determine the charges as set forth in (c) through (e) preceding. (T)
Additionally, when a segment of the Direct Trunked Facility is measured to the intermediate office(s), the (T)
Direct Trunked Termination are also applied at the (T)
intermediate Telephone Company(s) office(s).

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company (Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Transport and Channel Mileage Charges (Continued)

(D)

(D)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Local Transport and Channel
Mileage Charges (Continued)

(D)

(D)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.4 Payment Arrangements and Credit Allowances (Continued)

2.4.7 Access Services Provided by More Than One Telephone Company
(Continued)

(B) Meet Point Billing (Continued)

(3) Determination of Meet Point Billed Transport and Channel
Mileage Charges (Continued)

(D)

(D)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.5 Connections

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

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions

Certain terms used herein are defined as follows:

800 Data Base Access Service

The term "800 Data Base Access Service" denotes a service which uses a data base system to identify 800 access customers on a 10-digit basis. For purposes of administering the rules and regulations set forth in this tariff regarding the provision of 800 Database Access, except where otherwise specified, 800 Database Access Service shall include the following service access codes 800, 888, 877, 866, 855, 844, 833, and 822.

800 Series

The term 800 series denotes the service access codes of 800, 888, 877, 866, 855, 844, 833, and 822.

Access Code

The term "Access Code", with an Abbreviated Dial Arrangement (ADA), denotes a uniform access code assigned by the Telephone Company to an individual customer in the form 10XXX or 101XXXX and 950-XXXX.

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(T)

Access Minutes

For the purpose of calculating chargeable usage, the term "Access Minutes" denotes customer usage of exchange facilities in the provision of interstate or foreign service. On the originating end of an interstate 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 interstate 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 interstate or foreign call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating exchanges, as applicable.

Access Order

An order used by the customer to request Access related services.

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Access Tandem

The term "Access Tandem" denotes 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 designated premises.

ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes 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.

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 an arrangement in an end office which provides for balance and noise testing.

Bit

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

Business Day

The term "Business Day" denotes the times of day that a company is open for business. The Business Day hours for the Telephone Company are 8:00 a.m. CST to 5:00 p.m. CST, with one hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service and/or Directory Assistance 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 Feature Group and/or Directory Assistance Service ordered. This customer specified BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group and/or Directory Assistance Service ordered.

Call

The term "Call" denotes a customer attempt for which complete address information (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Carrier or Common Carrier

See Interexchange Carrier.

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 servers (e.g., trunks).

Central Office

See Central Office Hub.

Central Office Hub

The term "Central Office Hub" denotes an electronic local Telephone Company Facility where Telephone Exchange service customer station loops are terminated for purposes of interconnection to each other (Facility Hubs, Customer Premise Hubs) and to trunks. Additionally, this type of End Office contains the central call processing functions which service itself and its Remote Switching Modules/Systems. Multiplexing and Bridging are performed at these Hubs.

(T)

(N)

(N)

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Central Office Maintenance Technician

The term "Central Office Maintenance Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, within the Telephone Company Central Office.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the seven digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

Channel(s)

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

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Channelize

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

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Coin Station

See Pay Telephone.

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.

Common Line

The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the general and/or local exchange service tariffs of the Telephone Company, terminated on a central office switch. A common line-residence is a line or trunk provided under the residence regulations of the general and/or local exchange service tariffs. A common line-business is a line provided under the business regulations of the general and/or local exchange service tariffs.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Communications System

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

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including both Interexchange Carriers (ICs) and End Users.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Customer Designated Premises

The term "Customer Designated Premises" denotes the premises specified by the customer for the provision of Access Service.

Data Transmission (107 Type) Test Line

The term "Data Transmission (107 Type) Test Line" denotes 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 difference in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

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.

Decibel Reference Noise C-Message Referenced to O

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

Detail Billing

The term "Detail Billing" denotes the listing of each message and/or rate element for which charges to a customer are due on a bill prepared by the Telephone Company.

Digital Switched 56 Service

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

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 **Definitions** (Continued)

Direct-Trunked Transport

The term "Direct-Trunked Transport" denotes transport from the Central Office Hub to the Facility Hub dedicated to the use of a single customer.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

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Effective 4-Wire

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of the Telephone Company (physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the customer's premises. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the two wire interface combines the transmission paths into a single path.

End Office

See Central Office Hub.

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End User

The term "End User" means any customer of an interstate or foreign telecommunications service that is not a carrier, except that a carrier other than a telephone company shall be deemed to be an "end user" when such carrier uses a telecommunications service for administrative purposes, and a person or entity that offers telecommunications service exclusively as a reseller shall be deemed to be an "end user" if all resale transmissions offered by such reseller originate on the premises of such reseller.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Enhanced Service

The term "Enhanced Service", as defined in Part 64 of the F.C.C.'s Rules and Regulations, are services "...offered over common carrier transmission facilities used in interstate communications, which employ computer processing applications that act on the format, content, code, protocol or similar aspects of the subscriber's transmitted information; provide the subscriber additional, different, or restructured information; or involve subscriber interaction with stored information."

Entrance Facility

The term "Entrance Facility" denotes a Switched Access Service dedicated Transport facility between the customer's Central Office Hub and the Customer Premise Hub.

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Entry Switch

See First Point of Switching.

ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Exchange

The term "Exchange" denotes 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. One or more designated exchanges comprise a given local access and transport area.

Exit Message

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

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

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

See Exchange.

Facility Hub

The point on the network where circuits are connected. Supports Meet Point Arrangements.

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First Point of Switching

The term "First Point of Switching" denotes the first Telephone Company or centralized equal access provider location at which switching occurs on the terminating path of a call proceeding from the customer designated premises to the terminating Central Office Hub and, at the same time, the last Telephone Company or centralized equal access provider location at which switching occurs on the originating path of a call proceeding from the originating end office to the customer designated premises.

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FOC (Firm Order Confirmation)

A Service Center response to an ASR such as a circuit order. A request that a telephone company gives to another telephone company for any of many kinds of inter-connectivity or data sharing needs.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 **Definitions** (Continued)

Frequency Shift

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

Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

Host Central Office

See Central Office Hub

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Hub

The term "Hub" denotes a wire center at which bridging or multiplexing functions are performed for customers.

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ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which 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.

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.

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

The term "Individual Case Basis" denotes 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.

Initial Address Message

The term "Initial Address Message" denotes an SS7 message sent in the forward direction to initiate trunk set up, reserve an outgoing trunk and process the information about that trunk along with other data relating to the routing and handling of the call to the next switch.

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 Hz 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.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Installation and Repair Technician

The term "Installation and Repair Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, outside of the Telephone Company Central Office and generally at the customer designated premises.

Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint- stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communication by wire or radio, between two or more exchanges.

Intermediate Hub

See Facility Hub.

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Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four tones, and evaluating the ratios (in dB) 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).

Interstate Communications

The term "Interstate Communications" 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.

ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 **Definitions** (Continued)

Legal Holiday

The term "Legal Holiday" denotes days other than Saturday or Sunday for which the Telephone Company is normally closed. These include New Year's Day, Independence Day, Thanksgiving Day, Christmas Day and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed and other locally observed holidays when the Telephone Company is closed.

Line Information Data Base (LIDB)

The data base which contains billing information such as telephone numbers, calling card numbers and associated billed number restriction data used in connection with the validation and billing of calls.

Line Side Connection

The term "Line Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area (LATA)

The term "Local Access and Transport Area" denotes 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 Area Network

The term "Local Area Network" denotes a network permitting the interconnection and intercommunication of a group of computers.

Local Routing Number (LRN)

A ten digit number used to uniquely identify a switch that has ported numbers.

Loss Deviation

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

Major Fraction Thereof

The term "Major Fraction Thereof" denotes any period of time in excess of 1/2 of the stated amount of time. As an example, in considering a period of 24 hours, a major fraction thereof would be any period of time in excess of 12 hours exactly. Therefore, if a given service is interrupted for a period of thirty-six hours and fifteen minutes, the customer would be given a credit allowance for two twenty-four hour periods for a total of forty-eight hours.

Meet Point

A location at which the facilities of two Telephone Companies connect.

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Message

The term "Message" denotes a "call" as defined preceding.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 **Definitions** (Continued)

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N-1 Carrier

In Local Number Portability Query Service, the telecommunications carrier immediately preceding the terminating carrier.

Network Control Signaling

The term "Network Control Signaling" denotes 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 re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes 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.

North American Numbering Plan

The term "North American Numbering Plan" denotes a three-digit area code (Numbering Plan Area - NPA) and a seven-digit telephone number made up of a three-digit Central Office prefix plus a four-digit station number.

Off-hook

The term "Off-hook" denotes the active condition of Switched Access or a Telephone Exchange Service line.

ACCESS SERVICE

2. GENERAL REGULATIONS (Continued)

2.6 Definitions (Continued)

On-hook

The term "On-hook" denotes the idle condition of Switched Access or a Telephone Exchange Service line.

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement in a Central Office or Facility Hub which provides an ac open circuit termination of a trunk or line by means of an inductor of several Henries.

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Originating Direction

The term "Originating Direction" denotes the use of access service for the origination of calls from an End User Premises to an IC Premises.

Phase Jitter

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

Point of Termination

The term "Point of Termination" denotes the point of demarcation within a Customer-Designated Premise, Central Office, Customer Premise or Facility Hub at which the Telephone Company's responsibility for the provision of Access Service ends.

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Premises

The term "Premises" denotes a building or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.

Query Default

In Local Number Portability (LNP) Query Service, a signaling message requesting the Local Routing Number (LRN) contained in the LNP Data Base for which a query has not yet been performed by the N-1 Carrier and where the N-1 carrier has not prearranged with the Telephone Company to have the queries performed on the N-1 carrier's behalf.

ACCESS SERVICE

2. GENERAL REGULATIONS (Continued)

2.6 Definitions (Continued)

Recipient Switch

Denotes any end office switch that served Directory Numbers (DN) within a number portable NXX that is not originally assigned to the switch. Customers assigned a DN within indicated NXX that were working out of a switch other than the one originally designated are said to have ported their numbers to this recipient switch.

Regional Service Management System/Number Portability Administration Center

Denotes the third party administered database which maintains the information on all ported numbers in the Telephone Company's region.

Release Message

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

Remote Switching Modules/Systems

The term "Remote Switching Modules/Systems" denotes small, remotely controlled electronic Central Office Hub switches which obtain their call processing capability from the Central Office Hub.

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Return Loss

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

Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies with and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and Regulations.

ACCESS SERVICE2. **GENERAL REGULATIONS** (Continued)2.6 **Definitions** (Continued)**Service Access Code**

The term "Service Access Code" denotes a 3 digit code in the NPA format which is used as the first three digits of a 10 digit address and which is assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. Examples of Service Access Codes include the 800 and 900 codes.

Service Date

The date provided in the FOC by the Telephone Company to the Customer. The initial service date provided is the original service date prior to changes to the date via Supplemental Service Dates.

Service Switching Point (SSP)

The term "Service Switching Point" denotes an end office or tandem which, in addition to having SS7 and SP capabilities, is also equipped to query centralized data bases.

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

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.

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes 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.

Short Circuit Test Line

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

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.

Signaling Point (SP)

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

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Signaling Point of Interface (SPOI)

The term "Signaling Point of Interface (SPOI)" denotes the customer designated location where the SS7 signaling information is exchanged between the Telephone Company and the customer.

Signaling Return Loss

The term "Signaling 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 signing (instability) problems are most likely to occur.

Signaling System 7 (SS7)

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

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.

Signal Transfer Point (STP) Port

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

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Synchronous Test Line

The term "Synchronous Test Line" denotes an arrangement in an end office which performs marginal operational tests of supervisory and ring-tripping functions.

Tandem Switched Transport

The term "Tandem Switched Transport" denotes transport from the serving wire center to the end office, or from the tandem to the end office, that is switched at a tandem.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from an IC premises to an End User Premises.

Throughput

The term "Throughput" denotes the number of data bits successfully transferred in one direction per unit of time.

Transmission Measuring (105 Type) Test Line/Responder

The term "Transmission Measuring (105 Type) Test Line/ Responder" denotes an arrangement in an end office which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

Transmission Path

The term "Transmission Path" denotes 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 300 to 3000 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

The term "Trunk" denotes a communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

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ACCESS SERVICE

2. **GENERAL REGULATIONS** (Continued)

2.6 Definitions (Continued)

Trunk Group

The term "Trunk Group" denotes 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.

Trunk Side Connection

The term "Trunk Side Connection" denotes the connection of a transmission path to the trunk side of a local exchange switching system.

Two-Wire to Four-Wire Conversion

The term "Two-Wire to Four-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 (e.g., a central office switch).

V and H Coordinates Method

The term "V and H Coordinates Method" denotes 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.

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Wireless Switching Center

The term "Wireless Switching Center" (WSC) denotes a Wireless Service Provider (WSP) switching system that is used to terminate wireless stations for purposes of interconnection to each other and to trunks interfacing with the public switched network.

Wire Center

The term "Wire Center" denotes a building in which one or more central offices, used for the provision of Telephone Exchange Services, are located.

ACCESS SERVICE

3. Federal Universal Service Charge

The Federal Universal Service Charge (FUSC) recovers the Telephone Company's contribution to various federal universal service funds. The Telephone Company will apply the FUSC Surcharge Factor each month to the billed charges for interstate access services provided to end users from this Tariff.

The FUSC Surcharge Factor set forth in Section 15 following, will be billed by only those Telephone Companies contributing to the universal service funds. The FUSC Surcharge Factor will not apply to any billed charges for an end user when the interstate access service provided to the end user qualifies under the federal universal service guidelines for Lifeline Assistance. The FUSC Surcharge Factor will not apply to interstate access services purchased by customers that resell these services to end users as part of an interstate telecommunications service and are required to contribute to the various federal universal service funds. In case of a dispute regarding whether the customer is reselling services and contributing to the various federal universal service funds, the Telephone Company may request a signed certification to that effect from the customer.

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ACCESS SERVICE

4. End User Access Service4.1 End User Access Service

The Telephone Company will provide End User Access Service (End User Access) to end users who obtain local exchange service from the Telephone Company under its general and/or local exchange tariffs.

4.1.1 General Description

End User Access provides for the use of an End User Common Line (EUCL).

4.1.2 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.

4.1.3 Undertaking of the Telephone Company

The Telephone Company will provide use of an End User Access at rates and charges as set forth in 15.2 following, as follows:

- (A) Use of an EUCL by an end user in connection with interstate Access Services provided under this tariff. Such use will be provided when the end user obtains local exchange service.
- (B) The Telephone Company will be responsible for contacts and arrangements with customers for the billing of End User Access charges.

4.1.4 Obligations of the End User

- (A) When the end user is a Radio Common Carrier (RCC), or a Maritime Radio Common Carrier (MRCC), it shall designate whether the local exchange services it is provided by the Telephone Company are used as access lines for its services or used as administrative lines.

ACCESS SERVICE

4. End User Access Service4.1 End User Access Service4.1.5 Payment Arrangements and Credit Allowances

(A) Minimum Period

The minimum period for which EUCL 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 Service is canceled when the order for the associated local telephone exchange 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 Service, any necessary changes will be made for End User Access. No charges will apply.

(D) Allowance for Interruptions

When there is an interruption to an EUCL, requested End User Access Service credit allowances for interruptions will be provided as set forth for credit allowance for interruptions in 2.4.4 preceding.

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

ACCESS SERVICE

4. End User Access Service (Cont'd)4.1 End User Access Service (Cont'd)4.1.6 Rate Regulations (Cont'd)

(A) End User Common Line (EUCL)

- (1) EUCL per month charges will be billed to the end user of the associated Local Exchange Service.
- (2) For each local exchange service provided as remote call forwarding residential service or remote call forwarding business service under the general and/or local exchange service tariffs, End User Access charges do not apply.

For each local exchange service other than local exchange service used for administrative purposes, provided to Radio Common Carriers and/or Maritime Radio Common Carriers as access lines for their services under the general and/or local exchange service tariffs, End User Access charges do not apply.

- (3) For Centrex Dormitory (Residence) Service dormitory (residential) lines or trunks, the End User Common Line (EUCL) Primary Residence Subscriber-Individual line or trunk rate as set forth in 15.2 following applies to each line or trunk.

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., Airport Service, ESSEX, Hotel-Motel and Exhibition Hall Service) that operate in a matter that is the same as Centrex CO and (1) are provided using switches located at Telephone Company central offices and (2) links the customer's main stations to the Telephone Company switch with subscriber loops.

Centrex Dormitory (Residential) Service is a service to a college or university or school that serves both the university, college or school offices and the student or faculty dormitory (residential) quarters. Primary Residential charges will apply to the lines or trunks that serve dormitory quarters. Multiline Business charges will apply to the lines or trunks that serve the offices. Charges shall be based on the number of dormitory lines or trunks and office lines or trunks reported to the Telephone Company by the customer.

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ACCESS SERVICE

4. End User Access Service (Cont'd)4.1 End User Access Service (Cont'd)4.1.6 Rate Regulations (Cont'd)(A) End User Common Line (EUCL) (Cont'd)

- (4) When a Payphone Service Provider is provided local business exchange service or coin line service, the End User Common Line (EUCL) Multiline Business Subscribers - Individual line or trunk rate as set forth in 15.2 following applies to each such service.
- (5) When an end user is provided more than one local business exchange service in a state by the same Telephone Company, and when the local business exchange service is provided as a multiparty service under the general and/or local exchange service tariffs, each party is deemed to be a user of an EUCL and the End User Common Line (EUCL) Multiline Business Subscriber-Individual line or trunk rate as set forth in 15.2 following applies to each such party.
- (6) When an end user is provided more than one local business exchange service in a state by the same Telephone Company, and when the local business exchange service is provided under the general and/or local exchange service tariffs and is not covered by (3), (4) and (5) preceding, the End User Common Line (EUCL) Multiline Business Subscribers - Individual line or trunk rate as set forth in 15.2 following applies to each such local business exchange service.
- (7) When an end user is provided only a single local business exchange service in a state by the same Telephone Company as a multiparty service under the general and/or local exchange service tariffs, each party is deemed to be a user of an EUCL and the End User Common Line (EUCL) Single Line Business Subscriber - Individual line or trunk rate as set forth in 15.2 following applies to each such party.
- (8) When an end user is provided only a single local business exchange service by the Telephone Company, under the general and/or local exchange service tariffs, the End User Common Line (EUCL) Single Line Business Subscriber -Individual line or trunk rate as set forth in 15.2 following applies to each single business service. Such local business exchange service includes single local business exchange service not covered in (7) preceding.

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ACCESS SERVICE

4. End User Access Service (Cont'd)4.1 End User Access Service (Cont'd)4.1.6 Rate Regulations (Cont'd)

(A) End User Common Line (EUCL) (Cont'd)

- (9) When an end user is provided a single local residence exchange service at a service location in a state by the Telephone Company, and when the local residence exchange service is provided as a multiparty service under the general and/or local exchange service tariffs, each party is deemed to be a user of an EUCL and the End User Common Line (EUCL) Primary Residence Subscriber - Individual line or trunk rate as set forth in 15.2 following applies to each such party.
- (10) When an end user is provided a single local residence exchange service at the same service location by the Telephone Company and when the local residence exchange service is provided under the general and/or local exchange service tariffs, the End User Common Line (EUCL) Primary Residence Subscriber - Individual line rate as set forth in 15.2 following applies to each such local residence exchange service. Such local residence exchange service includes any local residence service not covered in (9) preceding.
- (11) When an end user is provided with more than one local residence exchange service at the same service location, only one line will be classified as Primary as set forth in 15.2 and all other lines are considered to be Non-Primary. The End User Common Line (EUCL) Non-Primary Residence Subscriber - Individual line rate as set forth in 15.2 following applies to each such non-primary local residence exchange service. Such local residence exchange service includes any local residence service not covered in (9) or (10) preceding.

For exchange residence service installed prior to January 1, 1998, the Telephone Company will use existing service records to determine which line is primary. Current billing records contain Universal Service Order Codes (USOCs) and Field Identifiers (FIDs) that identify non-primary residence lines. If that data are not available, date of installation will be used. The first line installed at a location will be designated as Primary.

For exchange residence service established after January 1, 1998, if the customer orders more than one line at the same service location, the first line installed will be Primary. Otherwise, if services are ordered at different times, date of installation data for the same location will be used to designate one line as Primary.

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ACCESS SERVICE

4. End User Access Service (Cont'd)4.1 End User Access Service (Cont'd)4.1.6 Rate Regulations (Cont'd)

(A) End User Common Line (EUCL) (Cont'd)

- (12) When an end user is provided a local residence exchange service and is a qualifying low income subscriber under paragraph 54.400 (a) (1) of Part 54 of FCC Rules and Regulations, the End User Common Line Residence Subscriber - Individual line or trunk rate in 15.2 following shall be waived for a single line to the household's principal residence as specified in paragraph 54.403 (b) of Part 54 of FCC Rules and Regulations.
- (13) When an end user is provided a Basic Rate Interface ISDN (ISDN-BRI) service, to either a residence or business location, the ISDN-BRI End User Common Line rate applies, as set forth in 15.2.

In addition to the EUCL, when end users are provided certain residential or multi-line local business exchange service by the Telephone Company, under the general and/or local exchange service tariffs, where the cost of the line port exceeds that of a basic analog line port, an End User Complex Line Port (EUCLP) charge is assessed. These services include ISDN-BRI for residential customers and ISDN-BRI, Centrex ISDN, ISDN-PRI and Digital Transport Service (DTS) for multi-line business customers. The EUCLP rates as set forth in 15.1.2 following, applies to each such party.

- (a) When an end user is provided ISDN-PRI local exchange service by the Telephone Company, under the general and/or local exchange service tariffs, an EUCLP is assessed. The rate per facility is set forth in 15.2 following.
- (b) When an end user is provided Digital Transport Service (DTS) local exchange service by the Telephone Company, under the general and/or local exchange service tariffs, the DTS EUCLP is assessed. The individual facility rate is set forth in 15.2 following.
- (c) When an end user is provided ISDN-BRI local exchange service by the Telephone Company, under the general and/or local exchange service tariffs, an EUCLP is assessed. The individual facility rate is set forth in 15.2 following.
- (d) When an end user is provided Centrex ISDN local exchange service by the Telephone Company, under the general and/or local exchange service tariffs, and EUCLP is assessed. The individual facility rate is set forth in 15.2 following.

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ACCESS SERVICE

5. Access Ordering

5.1 General

This section sets forth 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 Access or Access Related Service or to provide changes to existing services. (T)

The regulations, rates and charges for special construction are set forth in the appropriate tariff and are in addition to the regulations, rates and charges specified in this section.

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 multipoint service.

The customer shall provide to the Telephone Company the order information required in 5.2 following, and in addition 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: order negotiation, order confirmation, interactive design, installation and billing.

ACCESS SERVICE5. **ACCESS ORDERING** (Continued)5.1 **General** (Continued)5.1.1 **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 Service Interval Guide of applicable service dates. The Telephone Company will provide its Service Interval Guide upon written request. The intervals set forth in the Service Interval Guide represent the **minimum** period between receipt by the Telephone Company of an accurate and complete ASR from customer and provisioning of the Access service by the Telephone Company. These Intervals are guidelines that the Telephone Company will attempt to meet on a consistent basis; however, The Telephone Company makes no guaranty or warranty that the requested service will be provisioned in accordance with these intervals.

(T)

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 15.5.3 following.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.2 Expedited Orders

When placing an Access Order, a customer may request a service date that is prior to the applicable service date. Additionally, a customer may also request an earlier service date on a pending Access Order. In this case, an Access Order modification as set forth in 5.4 following would be required. If the Telephone Company determines that the service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Charges will be billed at actual cost. Such additional charges will be determined and billed to the customer as explained following.

(T)

To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in 15.5.3 following.

To develop, determine and bill the customer the extraordinary costs which may be involved, the Special Construction terms and conditions will be used by the Telephone Company. Authorization to incur the costs and to bill the customer will be in accordance with the terms and conditions of the appropriate tariff.

For each Expedited Order received by the Telephone Company or copy of an Expedited Order received by the Telephone Company, the Expedited Order Charge, as set forth in 15.5.1(E) plus the Access Order Charge, as set forth in 15.5.1(4) following, will apply. The Flat Rated Expedited Order and Access Order charges plus any additional labor charges will comprise the total billing associated an Expedited Order.

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When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in 15.5.1 following also applies.

ACCESS SERVICE

5. Access Ordering (Continued)

5.1 General (Continued)

5.1.3 Selection of Facilities for Access Orders

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When there are 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 be used to provide the Switched Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request.

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.2 Ordering Requirements

5.2.1 Switched Access Service

When ordering Switched Access service, the customer must specify whether the service to be provided is Direct Trunked Transport to the Central Office of Facility Hub. When all or a portion of service is ordered as Direct Trunked Transport, the customer must specify the type and quantity of Direct Trunked Transport facility (e.g., High Capacity DS1 or DS3).

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The Customer must also specify the type of Entrance Facility to be used for Switched Access (e.g., High Capacity). For High Capacity Entrance Facilities, the customer must specify the facility assignment and the channel assignment for each trunk.

(T)

Direct Trunked Transport is available at Central office and Facility Hubs. Section 5.6 provides list of CLLI codes for Central Office and Facility Hubs where Direct Trunked Transport is available.

(T)

Normally, Direct Trunked Transport of originating 800 series calls from an end office is available only from Service Switching Point (SSP) equipped end offices. However, certain SSP equipped end offices cannot accommodate the direct trunking of the 888 service access code. These end offices are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4. Additionally, certain non-SSP equipped end offices can accommodate direct trunking of originating 800 series calls. These end offices are also identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.2 Ordering Requirements (Continued)

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.2 Ordering Requirements (Continued)

5.2.3 Reserved for Future Use

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5.2.4 Mixed Use Facilities - Switched and Special Access

Mixed use is the provision of both Switched 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 either as Switched Access Service or Special Access Service. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

ACCESS SERVICE

5. Access Ordering (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.5 Miscellaneous Services

Testing Service, Additional Labor, 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 15.5.1 following will apply. When miscellaneous services are added to a pending order, charges for a design change as set forth in 15.5.1 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 5.4.3 following. (T)

The rates and charges for these services, as set forth in Section 15. of this tariff, will apply in addition to the ordering charges set forth in Section 15. and the rates and charges for the Access Service with which they are associated.

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 11.1 following. 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 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 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%.

ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

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.

(T)

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in 2.4.7 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 Reserved for Future Use

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

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

5.3.2 Meet Point Billing Ordering

Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) with the other Telephone Company(s). Billing Percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Each Telephone Company will bill the customer for its portion of the service as set forth in 2.4.7. All other appropriate charges in each Telephone Company tariff are applicable.

For the service(s) ordered as set forth following, 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. Additionally, when service is provided through a centralized equal access provider, the customer must supply a copy of the order to that provider.

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(B) For Feature Group C and D Switched Access Services, the customer must place an order with the Telephone Company in whose territory the end office is located.

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

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

5.3.2 Meet Point Billing Ordering (Continued)

- (E) For initiation, additions, changes or deletions to the Interim NXX Translation code(s), the customer must place an order with the Telephone Company who provides the Interim NXX Translation. The customer must also provide a copy of the order to the Telephone Companies subtending the Interim NXX Translation office.

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.4 Charges Associated with Access Ordering

5.4.1 Access Order Charge

The Access Order Charge is applied to all customer requests for new Switched Access. In addition, the Access Order Charge is applicable to customer requests for additions, changes or rearrangements to existing Switched Access with the following exceptions:

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The Access Order Charge does not apply:

- When a Service Date Change Charge is applicable.
- When a Design Change Charge is applicable.
- To administrative changes as set forth in 6.2.5(B)(2) and 7.2.2(C)(3) following.
- When a change to a pending order does not result in the cancellation of the pending order and the issuance of a new order.
- When the Interim NXX Translation charge is applicable.
- When a Miscellaneous Service Order Charge is applicable.
- When a Presubscription Charge is applicable.
- When the Telephone Company initiated network reconfiguration requires a customer's existing access service to be reconfigured.
- When a service with an ICB rate is converted to a similar service with a non-ICB tariff rate prior to the expiration of the ICB.

ACCESS SERVICE

5. ACCESS ORDERING (Continued)

5.4 Charges Associated with Access Ordering (Continued)

5.4.1 Access Order Charge (Continued)

- When a customer requests a change to rearrange Switched Access services between lower capacity and higher capacity facilities, (e.g., DS1 to/from DS3), providing:
 - the orders to disconnect existing trunks and to connect the new trunks are placed at the same time, and
 - the number of installed trunks does not exceed the number of trunks disconnected. If the number of installed trunks exceeds the number of trunks disconnected, the Access Order Charge will apply unless the customer provides justification based upon standard engineering methods to show that the additional capacity is required to maintain the same level of service.

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The Access Order Charge will be applied on a per order basis to each order received by the Telephone Company or copy of an order received by the Telephone Company pursuant to 5.3.1 preceding and 5.3.2 preceding, except by the Telephone Company applying the Interim NXX Translation charge, and is in addition to other applicable charges as set forth in this and other sections of this tariff.

ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.4 **Charges Associated with Access Ordering** (Continued)

5.4.2 **Miscellaneous Service Order Charge**

A Miscellaneous Service Order Charge, as set forth in 15.5 following, applies to any service, or combination of services, ordered simultaneously from Section 11. of the tariff for which a service order is not already pending (with the exception of Presubscription, which does not have the charge applied). The Miscellaneous Service Order Charge is an administrative charge designed to compensate for the expenses associated with service order issuance.

(T)

The charge always applies to the following services since a pending service order would not exist:

- Overtime Repair,
- Standby Repair,
- Testing and Maintenance with Other Telephone Companies other than when in conjunction with Acceptance Testing,
- Other Labor,
- Maintenance of Service.

The Miscellaneous Service Order Charge will also apply to the following services if they are ordered subsequent to the initial installation of the associated access service, thereby necessitating the issuance of another service order:

- Controller Arrangement

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ACCESS SERVICE

5. Access Ordering (Continued)

5.4 Charges Associated with Access Ordering (Continued)

5.4.2 Miscellaneous Service Order Charge (Continued)

The charge does not apply to the following services since there would exist a pending service order:

- Additional Engineering,
- Overtime Installation,
- Standby Acceptance Testing,
- Testing and Maintenance with Other Telephone Companies when in conjunction with Acceptance Testing,
- Additional Cooperative Acceptance Testing.

5.4.3 Access Order Change Charges

Access Order changes involve service date changes and design changes. The customer may request a change of its Access Order prior to the service date. The Telephone Company will make reasonable effort to accommodate a requested change when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the change 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 Order change, the Telephone Company will schedule a new service date as set forth in 5.1.2 preceding. All charges for Access Order change as set forth in 15.5 will apply on a per occurrence basis.

Any increase in the number of Switched Access Service lines, trunks, busy hour minutes of capacity will be treated as a new Access Order (for the increased amount only).

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.4 Charges Associated with Access Ordering (Continued)

5.4.3 Access Order Change Charges (Continued)

(A) Service Date Change

The customer may request a change of service date on a pending Access Order prior to the service date. A change of service date is a change of the scheduled service date by the customer to either an earlier date or a later date. The Billing date for service will be no later than 15 days from the original service date provided by the Telephone Company on the FOC.

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If the Telephone Company determines that the customer's request can be accommodated without delaying the service dates for orders of other customers, the service date will be changed and the Service Date Change Charge, as set forth in 15.5 following, will be applied to the order.

If the Service Date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in 5.1.2 preceding apply. Such charges will apply in addition to the Service Date Change Charge.

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If the service date is changed due to a design change as set forth in (B) following, the Service Date Change Charge will apply.

ACCESS SERVICE

5. Access Ordering (Continued)5.4 Charges Associated with Access Ordering (Continued)5.4.3 Access Order Change Charges (Continued)(B) Design Change

The customer may request a design change to the service ordered prior to the requested service date. A design change is any change to an Access Order 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 do not include a change of customer designated premises, first point of switching, or Feature Group 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.

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The Telephone Company will review the requested change, notify the customer whether the change is a design change, if the change can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge as set forth in 15.5 following will apply in addition to the charge for Additional Engineering as set forth in 15.5 following. If a change of service date is required, the Service Date Change Charge as set forth in 15.5 following will also apply. The Access Order Charge as specified in 15.5 following does not apply.

ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.5 Minimum Periods and Cancellations

5.5.1 Minimum Periods

The minimum period for Switched Access DS3 Intermediate Transport Service is twelve months. (T)

Switched Access usage rated services have no minimum period.

The minimum period for which all other Access Service is provided and for which charges are applicable is one month, unless otherwise stated in a Term Agreement Plan entered into by Customer.

5.5.2 Development of Minimum Period Charges

When Access Service is disconnected after commencement of service, but prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period plus Early Termination Liability (Reference 2.4.2 (A-C)) if service was purchased with a term rate.

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

- (A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable recurring charges plus any nonrecurring and/or Special Construction charge(s) that may be due.

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ACCESS SERVICE

5. **ACCESS ORDERING** (Continued)

5.5 **Minimum Period and Cancellations** (Continued)

5.5.3 **Cancellation of an Access Order**

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- (A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written notice from the customer that the order is to be canceled. If a customer or a customer's end user is unable to accept Access Service within 14 calendar days after the original service date, the billing for the service will commence.

In such instances, the billing date shall be the 15th day beyond the original service date of the Access Order.

ACCESS SERVICE

5. Access Ordering (Continued)5.5 Minimum Period and Cancellations (Continued)5.5.3 Cancellation of an Access Order (Continued)

- (B) When a customer cancels an Access Order for the installation of service, a Cancellation Charge will apply as follows:
- (1) Installation of Switched Access facilities 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. (T)
 - (2) Where the customer cancels an Access Order prior to the start of installation of access facilities.
 - (3) Where installation of access facilities has been started prior to the cancellation, the charges specified in (a) or (b) following, whichever is lower, shall apply.
 - (a) A charge equal to the costs incurred in such installation, less estimated net salvage. Such costs include the non-recoverable cost of equipment and material ordered, provided or used, plus the non-recoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, rights-of-way, 3rd party leased facilities, and other associated costs;
 - (b) The minimum period charges for Switched Access ordered by the customer, as set forth in 5.5.2 preceding. (T)
- (C) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.

ACCESS SERVICE

5. Access Ordering (Continued)5.5 Minimum Period and Cancellations (Continued)5.5.3 Cancellation of an Access Order (Continued)

- (D) If the Telephone Company misses a service date by more than 30 days and such delay is not requested or caused by the customer (excluding those circumstances where the date is missed due to acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

5.5.4 Partial Cancellation Charge

Any decrease in the number of ordered Switched Access Service lines, trunks, busy hour minutes of capacity will be treated as a partial cancellation and charges will be determined as set forth in 5.5.3(B) preceding. (T)

5.6 Hub Locations5.6.1 TDS Metrocom, LLC

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|-----------------------|------------------|----------------------------------|------------------|------------|-------|
| MDSNW111 | H06 | No | FACILITY HUB | MADISON | WI |
| MDSNW116 | H02 | No | FACILITY HUB | MADISON | WI |
| MDSNW112 | H03 | No | FACILITY HUB | MADISON | WI |
| MDSNW114 | H00 | No | FACILITY HUB | MADISON | WI |
| MDSNW113 | H00 | No | FACILITY HUB | MADISON | WI |
| MDTNWIXA ¹ | H02 | No | FACILITY HUB | MIDDLETON | WI |
| MDTNWIXB ¹ | H03 | No | FACILITY HUB | MADISON | WI |
| MDSNWIGJ | H02 | Yes | FACILITY HUB | MADISON | WI |
| BELTWI01 | H08 | No | FACILITY HUB | BELOIT | WI |
| JNVLWI01 | H09 | No | FACILITY HUB | JANESVILLE | WI |
| RCFRILRE | H14 | No | FACILITY HUB | ROCKFORD | IL |
| RCFRILRT | H20 | No | FACILITY HUB | ROCKFORD | IL |
| SGTNWI11 | H04 | No | FACILITY HUB | STOUGHTON | WI |
| APPLWI01 | H15 | No | FACILITY HUB | APPLETON | WI |
| DEPRWI11 | H05 | No | FACILITY HUB | DEPERE | WI |
| GNBYWI01 | H06 | No | FACILITY HUB | GREEN BAY | WI |

¹ Hub Location grandfathered to customers using routes as of August 26, 2009

ACCESS SERVICE

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5. Access Ordering (Cont'd)5.6 Hub Locations (Cont'd)5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|------------------|-----------------|-------|
| GNBYWI11 | H04 | No | FACILITY HUB | GREEN BAY | WI |
| GNBYWI12 | H03 | No | FACILITY HUB | GREEN BAY | WI |
| NENHWI11 | H05 | No | FACILITY HUB | NEENAH | WI |
| OSHKWI01 | H05 | No | FACILITY HUB | OSHKOSH | WI |
| ASHWWIEV | H00 | No | FACILITY HUB | ASHWAUBENON | WI |
| BFTWWI11 | H04 | No | FACILITY HUB | BROOKFIELD | WI |
| BRFDWI11 | H04 | No | FACILITY HUB | BROOKFIELD | WI |
| FDULWI01 | H05 | No | FACILITY HUB | FOD DU LAC | WI |
| KENOWI01 | H13 | No | FACILITY HUB | KENOSHA | WI |
| KENOWI11 | H08 | No | FACILITY HUB | KENOSHA | WI |
| MILWWI10 | H10 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI12 | H22 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI13 | H75 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI25 | H13 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI30 | H07 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI31 | H16 | No | FACILITY HUB | MENOMONEE FALLS | WI |
| MILWWI42 | H20 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI45 | H16 | No | FACILITY HUB | MILWAUKEE | WI |
| MILWWI56 | H28 | No | FACILITY HUB | MILWAUKEE | WI |
| PEWKWI11 | H02 | No | FACILITY HUB | PEWAUKEE | WI |
| PEWKWI40 | H03 | No | FACILITY HUB | PEWAUKEE | WI |
| PRSDWI11 | H04 | No | FACILITY HUB | PARKSIDE | WI |
| RACNWI01 | H14 | No | FACILITY HUB | RACINE | WI |
| RACNWI11 | H06 | No | FACILITY HUB | RACINE | WI |
| STRTWI11 | H03 | No | FACILITY HUB | STURTEVANT | WI |
| WKSHWI47 | H17 | No | FACILITY HUB | WAUKESHA | WI |
| DRFDILDF | H24 | No | FACILITY HUB | DEERFIELD | IL |
| GYLKILGL | H06 | No | FACILITY HUB | GRAYS LAKE | IL |
| GURNILAA | H01 | No | FACILITY HUB | GURNEE | IL |
| HGPKILHP | H11 | No | FACILITY HUB | HIGHLAND PARK | IL |
| LKFRILLF | H15 | No | FACILITY HUB | LAKE FOREST | IL |

(N)

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ACCESS SERVICE

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5. Access Ordering (Cont'd)5.6 Hub Locations (Cont'd)5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|------------------|--------------|-------|
| LBVLILLI | H19 | No | FACILITY HUB | LIBERTYVILLE | IL |
| LNSRILAB | H03 | No | FACILITY HUB | LINCOLNSHIRE | IL |
| NCHCILNC | H16 | No | FACILITY HUB | CHICAGO | IL |
| NBRKILNB | H34 | No | FACILITY HUB | NORTHBROOK | IL |
| NBRKILNT | H33 | No | FACILITY HUB | NORTHBROOK | IL |
| WKGNILWK | H17 | No | FACILITY HUB | WAUKEGAN | IL |
| WLNGILWG | H28 | No | FACILITY HUB | WHEELING | IL |
| VNHLILAF | H00 | No | FACILITY HUB | VERNON HILLS | IL |
| BTCKMIMN | H18 | No | FACILITY HUB | BATTLE CREEK | MI |
| BTCKMISO | H08 | No | FACILITY HUB | BATTLE CREEK | MI |
| DTTNMIMN | H17 | No | FACILITY HUB | DUTTON | MI |
| GDRPMIBL | H76 | No | FACILITY HUB | GRAND RAPIDS | MI |
| GDRPMIEP | H22 | No | FACILITY HUB | GRAND RAPIDS | MI |
| GDRPMIES | H29 | No | FACILITY HUB | GRAND RAPIDS | MI |
| GDRPMIWS | H18 | No | FACILITY HUB | GRAND RAPIDS | MI |
| GRHVMIMN | H11 | No | FACILITY HUB | GRAND HAVEN | MI |
| HDVLMIMN | H15 | No | FACILITY HUB | HUDSONVILLE | MI |
| HLLDMIMN | H22 | No | FACILITY HUB | HOLLAND | MI |
| HLLDMINR | H08 | No | FACILITY HUB | HOLLAND | MI |
| KLMZMIFA | H35 | No | FACILITY HUB | KALAMAZOO | MI |
| PRTGMILK | H13 | No | FACILITY HUB | PORTAGE | MI |
| WYNGMILX | H25 | No | FACILITY HUB | WYOMING | MI |
| ZELDMISL | H06 | No | FACILITY HUB | ZEELAND | MI |
| ANARMIMN | H42 | No | FACILITY HUB | ANN ARBOR | MI |
| ANARMISE | H21 | No | FACILITY HUB | ANN ARBOR | MI |
| FRTNMIMN | H28 | No | FACILITY HUB | FARMINGTON | MI |
| LIVNMIMN | H29 | No | FACILITY HUB | LIVONIA | MI |
| LIVNMINW | H27 | No | FACILITY HUB | LIVONIA | MI |
| NRVLMIMN | H27 | No | FACILITY HUB | NORTHVILLE | MI |
| PLMOMIMN | H29 | No | FACILITY HUB | PLYMOUTH | MI |
| RMLSMIMN | H08 | No | FACILITY HUB | ROMULUS | MI |

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ACCESS SERVICE

5. Access Ordering (Cont'd)5.6 Hub Locations (Cont'd)5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|----------------------|--------------|-------|
| WAYNMIMN | H22 | No | FACILITY HUB | WAYNE | MI |
| WAYNMINW | H11 | No | FACILITY HUB | WAYNE | MI |
| YPSLMIMN | H19 | No | FACILITY HUB | YPSILANTI | MI |
| ELNSMIMN | H25 | No | FACILITY HUB | EAST LANSING | MI |
| HOLTMIHE | H08 | No | FACILITY HUB | HOLT | MI |
| JCSNMIMN | H20 | No | FACILITY HUB | JACKSON | MI |
| LNNGMIMN | H57 | No | FACILITY HUB | LANSING | MI |
| LNNGMINW | H17 | No | FACILITY HUB | LANSING | MI |
| LNNGMISO | H22 | No | FACILITY HUB | LANSING | MI |
| OKMSMIMN | H15 | No | FACILITY HUB | OKEMOS | MI |
| MDSNWIAD | H14 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWI02 | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDTNWI03 | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDTNWI07 | H00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSNWIML | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWI83 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI02 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIQV | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWIVT | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWIVU | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI09 | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWICO | H02 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWICU | W01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWI06 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |

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5. Access Ordering (Cont'd)

5.6 Hub Locations (Cont'd)

5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|-------------------------|-----------|-------|
| MDSNWIZE | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNW180 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIME | W01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIBV | W01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIAB | H04 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNW185 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSPWIGK | H02 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWIBB | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSOWISD | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIJB | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI05 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWIKJ | H01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWIIP | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWIAX | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSNWIOC | H01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWI SJ | H01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI03 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWI RP | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI12 | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWI41 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI27 | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWI SD | H01 | No | CUSTOMER PREMISE HUB | MADISON | WI |

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ACCESS SERVICE

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5. Access Ordering (Cont'd)5.6 Hub Locations (Cont'd)5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|-------------------------|-------------------|-------|
| MDSNWIRL | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI07 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNW182 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWI05 | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSNW1AD | H14 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI01 | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWICG | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWI01 | RL0 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSNWIZP | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIEJ | W01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIEV | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MHPKILBU | H00 | No | CUSTOMER PREMISE HUB | MACHESNEY PARK | IL |
| MDTNWIBD | RL0 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI10 | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNW1AX | H02 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIEW | W01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWIBW | H00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSNWIRJ | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNW1HN | RL0 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNW1AU | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDTNWI04 | W00 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| MDSOWIXI | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNW1PU | OMD/CEL | No | CUSTOMER PREMISE HUB | MADISON | WI |

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5. Access Ordering (Cont'd)

5.6 Hub Locations (Cont'd)

5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|----------------------|-------------|-------|
| SHHLWIAA | H01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIGI | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWIUH | H03 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWI08 | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWINU | H01 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSPWIMX | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWISC | H00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSOWICQ | W00 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDSNWI04 | H07 | No | CUSTOMER PREMISE HUB | MADISON | WI |
| MDTNWIAL | RL0 | No | CUSTOMER PREMISE HUB | MIDDLETON | WI |
| APPLWIAK | H01 | No | CUSTOMER PREMISE HUB | APPLETON | WI |
| APPLWIFB | H09 | Yes | CENTRAL OFFICE HUB | APPLETON | WI |
| MNSHWIAO | H02 | No | CUSTOMER PREMISE HUB | MENASHA | WI |
| MNSHWIDQ | W00 | No | CUSTOMER PREMISE HUB | MENASHA | WI |
| APPLWIMX | H01 | No | CUSTOMER PREMISE HUB | APPLETON | WI |
| APPLWICR | 0MD | No | CUSTOMER PREMISE HUB | APPLETON | WI |
| GNBYWICG | H02 | No | CUSTOMER PREMISE HUB | GREEN BAY | WI |
| GNBYWIYM | H00 | No | CUSTOMER PREMISE HUB | GREEN BAY | WI |
| GNBYWISQ | H00 | No | CUSTOMER PREMISE HUB | GREEN BAY | WI |
| APPLWIDG | H02 | No | CUSTOMER PREMISE HUB | APPLETON | WI |
| GNBYWIBQ | H00 | No | CUSTOMER PREMISE HUB | ASHWAUBENON | WI |
| GNBYWICH | H02 | No | CUSTOMER PREMISE HUB | ASHWAUBENON | WI |
| GNBYWICW | H03 | No | CUSTOMER PREMISE HUB | ASHWAUBENON | WI |

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5. Access Ordering (Cont'd)5.6 Hub Locations (Cont'd)5.6.1 TDS Metrocom, LLC (Cont'd)

| CLLI (8 character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|-------------------------|--------------|-------|
| GNBYWIFI | H00 | No | CUSTOMER PREMISE HUB | ASHWAUBENON | WI |
| GNBYWIJF | H01 | No | CUSTOMER PREMISE HUB | ASHWAUBENON | WI |
| ASHWWIAE | H01 | No | CUSTOMER PREMISE HUB | GREEN BAY | WI |
| NENHWIFP | H00 | No | CUSTOMER PREMISE HUB | NEENAH | WI |
| MNSHWICG | W00 | No | CUSTOMER PREMISE HUB | MENASHA | WI |
| GNBYWIBN | H03 | No | CUSTOMER PREMISE HUB | GREEN BAY | WI |
| GNBYWISV | H03 | No | CUSTOMER PREMISE HUB | GREEN BAY | WI |
| NWBLWIIX | H01 | No | CUSTOMER PREMISE HUB | NEW BERLIN | WI |
| OKCKWICL | H02 | No | CUSTOMER PREMISE HUB | OAK CREEK | WI |
| PEWKWIEU | H01 | No | CUSTOMER PREMISE HUB | PEWAUKEE | WI |
| WALLWICQ | H03 | No | CUSTOMER PREMISE HUB | WEST ALLIS | WI |
| WKSHWI01 | H02 | No | CUSTOMER PREMISE HUB | WAUKESHA | WI |
| WKSHWIDJ | H11 | No | CUSTOMER PREMISE HUB | WAUKESHA | WI |
| VNHLILFH | H05 | No | CUSTOMER PREMISE HUB | VERNON HILLS | IL |
| LBVLILAJ | H03 | No | CUSTOMER PREMISE HUB | LIBERTYVILLE | IL |
| KNWDMINP | H01 | No | CUSTOMER PREMISE HUB | GRAND RAPIDS | MI |
| GRVLMICP | H03 | No | CUSTOMER PREMISE HUB | GRAND RAPIDS | MI |
| GDRPMIBJ | H02 | No | CUSTOMER PREMISE HUB | GRAND RAPIDS | MI |
| GRVLMIAR | H09 | No | CUSTOMER PREMISE HUB | GRANDVILLE | MI |
| KNWDMIGJ | H06 | No | CUSTOMER PREMISE HUB | GRAND RAPIDS | MI |
| NOVIMIIH | H01 | No | CUSTOMER PREMISE HUB | NOVI | MI |
| MDSNWIKW | OMD | Yes | CENTRAL OFFICE HUB | MADISON | WI |
| NWBLWICY | BMD | Yes | CENTRAL OFFICE HUB | NEW BERLIN | WI |

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.6 Hub Locations (Cont'd)

5.6.1 TDS Metrocom, LLC (Cont'd)

APPROVED

| CLLI (8 Character) | 3 character CLLI | Direct Trunk Transport Available | Domestic or COLO | CITY | STATE |
|--------------------|------------------|----------------------------------|--------------------|--------------|--------|
| VNHLILCK | WMD | Yes | CENTRAL OFFICE HUB | VERNON HILLS | IL |
| WYNGMIKE | OMD | Yes | CENTRAL OFFICE HUB | WYOMING | MI |
| LNGMI06 | OMD | Yes | CENTRAL OFFICE HUB | LANSING | MI |
| PLMOMIBY | OMD | Yes | CENTRAL OFFICE HUB | PLYMOUTH | MI |
| BRNBMNBR | HG1 | No | FACILITY HUB | BRAINERD | MN (C) |
| BRNRMNWS | W01 | No | FACILITY HUB | BRAINERD | MN |
| BXTRMNAC | H02 | No | CUSTOMER PREM HUB | BAXTER | MN |
| MNTIMNAC | OMD | Yes | CENTRAL OFFICE HUB | MONTICELLO | MN |
| MPLSMNDT | HG0 | No | FACILITY HUB | MINNEAPOLIS | MN |
| MPLSMNMS | W01 | No | FACILITY HUB | MINNEAPOLIS | MN |
| OSSEMNXO | 2MD | No | CUSTOMER PREM HUB | OSSEO | MN |
| PQLKMNP | BMD | No | FACILITY HUB | PEQUOT LAKES | MN |
| STCDMNTO | HG2 | No | FACILITY HUB | ST. CLOUD | MN |
| WADNMNUS | W01 | No | FACILITY HUB | WADENA | MN |
| BRNRMNCG | H02 | No | CUSTOMER PREM HUB | BRAINERD | MN |
| BRNRMNDD | C01 | No | CUSTOMER PREM HUB | BRAINERD | MN |
| SPLSMNAD | H00 | No | CUSTOMER PREM HUB | STAPLES | MN |
| WADNMNAJ | H00 | No | CUSTOMER PREM HUB | WADENA | MN (C) |

5.6.2 Chorus Networks

Provided upon written request.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE6.1 General

Switched Access Service, which is available to Customers for their use in furnishing their services to end users, provides a two-point communications path between a Customer's premises and an end user's premises. It provides for the use of common terminating, switching and transport facilities. Switched Access Service provides the ability to originate calls from an end user's premises to a Customer's premises, and to terminate calls from a Customer's premises location to an end user's premises.

6.2 Provision and Description of Switched Access Service Arrangements

Switched Access Service is provided in the following service type:

6.2.1 Feature Group C (FGC) Access

FGC Access provides trunk side access to Telephone Company end office switches for the customer's use in originating and terminating communications. Existing FGC Access will be converted to Feature Group D Access when Feature Group D Access becomes available in an end office.

Feature Group C switching is provided at all end office switches unless Feature Group D end office switching is provided in the same office. When FGD switching is available, FGC switching will not be provided. FGC is provided at Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches.

FGC is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, delay dial start-pulsing signals will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signals are provided.

FGC is provided with multifrequency address signaling except in certain electromechanical end office switches where multifrequency signaling is not available. In such switches, the address signaling will be dial pulse or immediate dial pulse signaling, whichever is available. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.1(A) Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured or imputed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the 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 access minutes of use based on previously known values.

For terminating calls over FGC when measurement capability exists, the measured minutes are the chargeable access minutes. For originating calls over FGC, chargeable originating access minutes are derived from recorded minutes in the following manner:

Step 1: Obtain recorded originating minutes and messages from the appropriate recording data.

Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, 800 series, 900, directory assistance and international from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgment from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.1(A) Measuring Access Minutes (Cont'd)

Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 by measuring the non-conversation time associated with both completed and incompleting attempts. The total NCTA is the time on a completed attempt from customer acknowledgment of receipt of call to called party answer (set up and ringing) plus the time on an incompleting attempt from customer acknowledgment of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Non-Conversation Time per Attempt Ratio equals Total NCTA.

Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

| | |
|-----------------------------------|---------|
| Where: Measured Minutes (M. Min.) | = 7,000 |
| Measured Messages (M. Mes.) | = 1,000 |
| Completion Ratio (CR) | = .75 |
| NCTA per Attempt | = .4 |

$$(1) \quad \text{Total Attempts} = \frac{1,000(\text{M. Mes.})}{.75(\text{CR})} = 1,333.3$$

$$(2) \quad \text{Total NCTA} = .4 (\text{NCTA per Attempt}) \times 1,333.33 = 533.33$$

$$(3) \quad \text{Total Chargeable Originating Access Minutes} = 7,000 (\text{M. Min}) + 533.33 (\text{NCTA}) = 7,533.33$$

FGC access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.1(A) Measuring Access Minutes (Cont'd)Originating Usage

For originating calls over FGC, provided with Multi-Frequency Signaling, usage measurement begins when the originating FGC first point of switching receives answer supervision from the customer's point of termination, indicating the called party has answered.

For originating calls over FGC provided with Signaling System 7 (SS7) Signaling when the FGC end office is not routed through an access tandem for connection to the customer, usage measurement begins when the SS7 Initial Address Message is sent from the Service Switching Point (SSP) to the Signal Transfer Point (STP).

For originating calls over FGC provided with Signaling System 7 (SS7) Signaling when the FGC end office is routed through a tandem for connection to the customer, usage measurement begins when the FGC end office receives the SS7 Exit Message from the tandem.

The measurement of originating call usage over FGC provided with Multi-Frequency Signaling ends when the originating FGC first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

The measurement of originating call usage over FGC provided with SS7 Signaling ends when the originating FGC end office receives an SS7 Release Message indicating either the originating or terminating end user has disconnected.

Terminating Usage

For terminating calls over FGC the chargeable access minutes are either measured or derived. For terminating calls over FGC where measurement capability does not exist, terminating FGC usage is derived from originating usage, excluding usage from calls to closed end services or Directory Assistance Services.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.1(A) Measuring Access Minutes (Cont'd)Terminating Usage (Cont'd)

For terminating calls over FGC provided with Multi-Frequency Signaling, where measurement capability exists, the measurement of chargeable access minutes begins when the terminating FGC first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. This measurement ends when the terminating FGC first point of switching receives an on-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGC with SS7 signaling, usage measurement begins when the terminating recording switch receives answer supervision from the terminating end user. The Telephone Company switch receives answer supervision and sends the indication to the customer in the form of an answer message. The measurement of terminating FGC call usage ends when the entry switch receives or sends a Release Message, whichever occurs first.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.2 Feature Group D (FGD) Access

FGD Access, which is available to all Customers, is provisioned at the DS-1 level and provides trunk-side access to Company Local Switching center switches, with an associated uniform 101XXXX Access Code for the Customer's use in originating and terminating communications.

Basic FGD service will be provided with SS7 (Multi-Frequency In Band Signaling is also available as a Common Switching Option for Feature Group D). End users of the Customer's service may also originate calls to certain FGD Access Customers without dialing the 101XXXX Access Code if the end user is presubscribed, as described herein.

The Access Code for FGD switching is a uniform Access Code of the form 101XXXX. A single Access Code will be the assigned number of all FGD access provided to the Customer by the Company. No Access Code is required for calls to a Customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for Presubscription to that Customer, as set forth herein.

Where no Access Code is required, the number dialed by the Customer's end user shall be a seven or ten digit number for calls in the North America Numbering Plan (NANP), except for 00-dialed calls which are routed to the predesignated Customer. For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the Customer's end user is NXX-XXXX, 0+ or 1 + NXX-XXXX, NPA + NXX-XXXX, 0+ or 1 + NPA + NXX-XYCXX, and, when the Local Switching Center is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

When the 101XXXX Access Code is used, FGD switching also provides for dialing the digit 0 (zero) for access to the Customer's operator, 911 for access to the Company's emergency service or the end-of-dialing digit (#) for cut-through access to the Customer's premises.

In addition, end users may originate calls by dialing the 950-XXXX Access Code specified to a particular Interexchange Carrier, provided that the Interexchange Carrier has subscribed to the Company's Feature Group D with 950 Access (Feature Group B) Common Switching Optional Feature. If the end user is presubscribed to that Interexchange Carrier, no Access Code is necessary.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.2 Feature Group D (FGD) Access6.2.2 (A) Measuring Access Minutes (Cont'd)

FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Originating Usage

For originating calls over FGD the measured minutes are the chargeable access minutes.

For originating calls over FGD, provided with Multi-Frequency Signaling, usage measurement begins when the originating FGD first point of switching receives the first wink supervisory signal forwarded from the customer's point of termination.

For originating calls over FGD provided with Signaling System 7 (SS7) Signaling when the FGD end office is not routed through an access tandem for connection to the customer, usage measurement begins when the SS7 Initial Address Message is sent from the Service Switching Point (SSP) to the Signal Transfer Point (STP).

For originating calls over FGD provided with Signaling System 7 (SS7) Signaling when the FGD end office is routed through a tandem for connection to the customer, usage measurement begins when the FGD end office receives the SS7 Exit Message from the tandem.

The measurement of originating call usage over FGD provided with Multi-Frequency Signaling ends when the originating FGD first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

The measurement of originating call usage over FGD provided with SS7 Signaling ends when the originating FGD end office receives an SS7 Release Message indicating either the originating or terminating end user has disconnected.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Description and Provision of Feature Group C (FGC) (Cont'd)6.2.2 Feature Group D (FGD) Access6.2.2 (A) Measuring Access Minutes (Cont'd)Terminating Usage

For terminating calls over FGD the chargeable access minutes are either measured or derived.

For terminating calls over FGD provided with Multi-Frequency Signaling, where measurement capability exists, the measurement of chargeable access minutes begins when the terminating FGD first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. This measurement ends when the terminating FGD first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGD, where measurement capability does not exist, terminating FGD usage is derived from originating usage, excluding usage from calls to closed end services or Directory Assistance Services.

For terminating calls over FGD with SS7 signaling, usage measurement begins when the terminating recording switch receives answer supervision from the terminating end user. The Telephone Company switch receives answer supervision and sends the indication to the customer in the form of an answer message. The measurement of terminating FGD call usage ends when the entry switch receives or sends a release message, whichever occurs first.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.3 Manner of Revision

Trunks used for Switched Access Service may be configured for one-way (either originating only or terminating only) or for two-way directionally. It is the Customer's responsibility to order a sufficient number of trunks of each type in order to meet its desired grade of service objective.

6.2.4 Switched Access Service Categories

There are four categories which apply to Switched Access Service:

- Local Transport
- End Office
- Chargeable Optional Features
- Carrier Common Line

Following is a description of the categories for the facilities required to provide Switched Access Services to the customer.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)
- 6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)
- 6.2.4 Switched Access Service Categories (Cont'd)
- 6.2.4 (A) Local Transport (Cont'd)

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the customer designated premises) and in the terminating direction (from the customer designated premises to the end office switch), but not simultaneously. The voice frequency transmission path 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. The customer must specify the choice of facilities (i.e., Voice Grade 2 or 4 wire or High Capacity DS1 or DS3) to be used in the provision of the Direct Trunked Transport or Entrance Facility.

The customer must specify when ordering (1) whether the service is to be directly routed to an end office switch or hub, or through an access tandem switch, and (2) the type of Direct Trunked Transport and whether it will overflow to Tandem Switched Transport when service is directly routed to an end office, (3) the type of Entrance Facility, (4) the directionality of the service, and (5) when multiplexing is required, the hub(s) at which the multiplexing will be provided.

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When service is to be routed through an access tandem switch, the facility between the serving wire center and the tandem will be provided as Direct Trunked Transport.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Access Service Categories (Cont'd)

6.2.4 (A) Local Transport (Cont'd)

Direct Trunked Transport is available at all tandems and at all end offices except those end offices identified in NECA Tariff F.C.C. No. 4, as not having the capability to provide Direct Trunked Transport. Direct Trunked Transport is not available: (1) from end offices that provide equal access through a centralized equal access arrangement, (2) from end offices that lack recording or measurement capability.

Normally, Direct Trunked Transport of originating 800 series type calls from an end office is available only from Service Switching Point (SSP) equipped end offices. However, certain non-SSP equipped end offices can accommodate direct trunking of originating 800 series type calls. These end offices are also identified in NECA, Tariff F.C.C. No. 4.

Unless otherwise ordered by the F.C.C., where the Telephone Company elects to provide equal access through a centralized equal access arrangement, the Telephone Company will designate the serving wire center. The designated SWC or hub will normally be that wire center which provides dial tone to the telephone company centralized Equal Access tandem office identified in NECA Tariff F.C.C. No. 4.

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When service is provided in cooperation with a non telephone company provider of centralized Equal Access, the SWC or hub will be that wire center which would normally provide dial tone to the telephone company point of interconnection with the non telephone company provider of centralized Equal Access specified in the tariff of the centralized Equal Access provider. Those Telephone Company offices providing equal access through centralized arrangements are identified in NECA Tariff F.C.C. No. 4.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (A) Local Transport (Cont'd)

The Local Transport Rate Category includes five classes: (1) Entrance Facility, (2) Direct Trunked Transport, (3) Tandem Switched Transport, (4) Transport Interconnection Charge, and (5) Multiplexing.

6.2.4 (A)1 Entrance Facility

The Entrance Facility is associated with a communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Entrance Facility 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 customer designated premises and the type of signaling capability, if any.

Three types of Entrance Facility are available: (1) Voice Grade 2 or 4 wire (an analog channel with an approximate bandwidth of 300 to 3000 Hz), (2) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps) and (3) High Capacity DS3 (an isochronous serial digital channel with a rate of 44.736 Mbps). The minimum period for which a DS3 Entrance Facility is provided is twelve months.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (A) Local Transport (Cont'd)6.2.4 (A)1 Entrance Facility (Cont'd)

A customer's Local Transport may be connected to the Entrance Facility of another customer, providing the other customer submits a letter of authorization for this connection and assumes full responsibility for the cost of the Entrance Facility.

6.2.4 (A)2 Direct Trunked Transport

Direct Trunked Transport is associated with the communications path between a serving wire center and an end office or serving wire center and a tandem on circuits dedicated to the use of a single customer.

Direct Trunked Transport is available to all tandems and to all end offices except those end offices identified in NECA Tariff F.C.C. No. 4, Wire Center Information as not having the capability to provide Direct Trunked Transport.

Direct Trunked Transport is not available: (1) from end offices that provide equal access through a centralized equal access arrangement, (2) from end offices that lack recording or measurement capability.

Normally, Direct Trunked Transport of originating 800 series type calls from an end office is available only from Service Switching Point (SSP) equipped end offices. However, certain non-SSP equipped end offices can accommodate direct trunking of originating 800 series type calls. These end offices are also identified in NECA, Tariff F.C.C. No. 4.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (A) Local Transport (Cont'd)6.2.4 (A)2 Direct Trunked Transport (Cont'd)

Three types of Direct Trunked Transport are available: (1) Voice Grade (an analog channel with an approximate bandwidth of 300 to 3000 Hz), (2) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps), and (3) High Capacity DS3 (an isochronous serial digital channel with a rate of 44.736 Mbps). The minimum period for which a High Capacity DS3 Direct Trunked Transport is provided is twelve months.

High Capacity DS3 Direct Trunked Transport can not be terminated at end offices that are not identified as hub offices that provide DS3 to DS1 multiplexing. Additionally, DS1 Direct Trunked Transport can not be terminated at end offices that are not identified as hub offices that provide DS1 to Voice Grade multiplexing or are not electronic end offices. Offices that provide multiplexing are identified in NECA Tariff F.C.C. No. 4, Wire Center Information.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4(A) Local Transport (Cont'd)6.2.4 (A)3 Tandem Switched Transport

Tandem Switched Transport is associated with the communications path between a tandem and an end office on circuits that are switched at a tandem switch, or between a host and a remote switch.

In those instances where an SSP equipped end office is capable of handling 800 SAC Traffic on a direct trunked basis but incapable of handling 888 SAC traffic on a direct trunked basis, a full credit will be provided for Tandem Switched Transport Charges associated with FGC and FGD service for 888 SAC traffic delivered at the tandem.

This results in all 800 series traffic being rated as direct trunked transport regardless of whether the SSP equipped end office is capable of handling 888 SAC traffic on a direct trunked basis. Those SSP equipped end offices that cannot accommodate direct trunking of originating 888 SAC traffic are identified in NECA Tariff F.C.C. No. 4, Wire Center Information.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (A) Local Transport (Cont'd)6.2.4(A)4 Multiplexing

DS3 to DS1 Multiplexing charges specified in Section 15 following apply when a High Capacity DS3 Entrance Facility or High Capacity DS3 Direct Trunked Facility is connected with High Capacity DS1 Direct Trunked Transport. The DS3 to DS1 multiplexer will convert a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing. DS1 to Voice Grade Multiplexing charges apply when a High Capacity DS1 Entrance Facility or High Capacity DS1 Direct Trunked Facility is connected with Voice Grade Direct Trunked Transport. However, a DS1 to Voice Grade Multiplexing charge does not apply when a High Capacity DS1 Entrance Facility or High Capacity DS1 Direct Trunked Transport is terminated at an electronic end office and only Switched Access Service is provided over the DS1 facility (i.e., Voice Grade Special Access channels are not derived). The DS1 to Voice Grade multiplexer will convert a 1.544 Mbps channel to 24 Voice Grade channels.

Multiplexing is only available at wire centers identified in NECA Tariff F.C.C No. 4, Wire Center Information.

6.2.4 (A)5 Interface Groups

Ten Interface Groups are provided for terminating the Entrance Facility at the customer's designated premises.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (A) Local Transport (Cont'd)6.2.4 (A)6 Nonchargeable Optional Features

Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching, may at the option of the customer, be provided with the following optional features.

- Supervisory Signaling
- Customer Specified Entry Switch Receive Level
- Customer Specification of Local Transport Termination

When a customer subscribes to Common Channel Signaling Network Connection Service (CCSNC Service), the following optional features are made available.

- Signaling System 7 (SS7) Signaling
- Calling Party Number
- Carrier Selection Parameter
- Charge Number Parameter
- Automatic Number Identification (ANI)
- End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- Digital Switched 56 Service
- Multifrequency Address Signaling
- Signaling System 7 (SS7) Signaling
- Calling Party Number (CPN)
- Carrier Selection Parameter (CSP)
- Charge Number Parameter (CNP)
- Flexible Automatic Number Identification (Flex ANI)

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Access Service Categories (Cont'd)

6.2.4 (B) End Office

The End Office category relates to the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the local end office. The End Office category consists of Local Switching Common Trunk Port and Dedicated Trunk Port.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (B) End Office (Cont'd)6.2.4 (B)1 Local Switching

The Local Switching element relates to the use of end office switching equipment, the terminations in the end office of end user lines, the terminations of calls at Telephone Company Intercept Operators or recordings, the STP costs, and the SS7 signaling function between the end office and the Signaling Transfer Point.

Local Switching does not apply to Feature Groups B and D Switched Access Services associated with Wireless Switching Centers (WSCs) directly interconnected to a Telephone Company access tandem office.

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with Local Switching which provides local dial switching for Feature Groups C and D. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through a standard FGC or FGD equipped end office.

There are four types of functions included in the Local Switching element: Common Switching, and Intercept. These are described in (a) through (b) following.

6.2.4 (B)1.(a) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements.

6.2.4 (B)1 (b) Transport Termination

Transport termination functions provide for the line or trunk side arrangements which terminate the Local Transport facilities.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (B) End Office (Cont'd)6.2.4 (B)1 Local Switching (Cont'd)6.2.4 (B)1 (c) Line Termination

Line Termination provides for the termination of end user lines in the Local end office. There are two types of Line Terminations, i.e., Common Line Terminations and Special Access Service Terminations utilized in the provision of WATS or WATS-type services at the Telephone Company designated WATS Serving Offices.

The above Special Access Service Terminations are differentiated by line side vs. trunk side terminations. In addition, there are various types of originating and terminating line side terminations depending on the type of signaling associated with the Special Access Service. Line side terminations are available with either pulse or dual tone multifrequency address signaling.

6.2.4 (B)1.(d) Intercept

The Intercept function provides for the termination of a call at a Telephone Company Intercept operator or recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, provides the correct number.

6.2.4 (B)2 Common Trunk Port

The Common Trunk Port used by multiple customers provides for the termination of common transport trunks in common end office trunk ports in conjunction with tandem routed traffic.

6.2.4 (B)3 Dedicated Trunk Port

The Dedicated Trunk Port provides for termination of direct facilities used by a single customer in an end office trunk port where traffic is transported between the serving wire center or the hub, and the end office.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 Switched Access Service Categories (Cont'd)6.2.4 (C) Chargeable Optional Features (Cont'd)6.2.4.(C)1 800 Series Data Base Access Service

800 Series Data Base Access Service is provided to all customers in conjunction with FGC and FGD switched access service. When a 1+800+NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network to query an 800 series data base to identify the customer to whom the call will be delivered and provide vertical features based on the dialed ten digits. The call will then be routed to the identified customer over FGC or FGD switched access.

A Basic or Premium Feature Query charge, as set forth in the Rates and Charges Section of this tariff, is assessed for each query launched to the data base which identifies the customer to whom the call will be delivered. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of 800 series type calls by telephone companies to different inter-exchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Premium Feature Query provides the same customer identification as the basic query and vertical features which may include: (1) call validation, (ensuring that calls originate from subscribed service areas); (2) POTS translation of 800 series numbers; (3) alternate POTS translation (which allows subscribers to vary the routing of 800 series type calls based on factors such as time of day, place or origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3).

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Access Service Categories (Cont'd)

6.2.4 (D) Carrier Common Line

The Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers in conjunction with Switched Access Service.

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 Interstate Communications.

6.2.4 (D)1 Limitations

6.2.4 (D)1.(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 Carrier Common Line Access.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Access Service Categories (Cont'd)

6.2.4 (D) Carrier Common Line (Cont'd)

6.2.4 (D)1 Limitations (Cont'd)

6.2.4 (D)1.(b) 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.

6.2.4 (D)1.(c) WATS Access Lines

Where Switched Access Services are connected with Special Access Services at Telephone Company Designated WATS Serving Offices for the provision of WATS or WATS-type Services, Switched Access Service minutes which are carried on that end of the service (i.e., originating minutes for outward WATS and WATS-type services and terminating minutes for inward WATS and WATS-type services) shall not be assessed Carrier Common Line Access per minute charges.

ACCESS SERVICE

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Access Service Categories (Cont'd)

6.2.4 (E) Common Channel Signaling/Signaling System 7 Network Connection Service (CCSNC)

Common Channel Signaling/Signaling System 7 (CCS/SS7) Network Connection Service (CCSNC) provides a signaling path between a customer's designated Signaling Point of Interface (SPOI) and a Signaling Transfer Point (STP). This service provides customers with the use of a two-way signaling path for accessing information necessary for the completion of their end user's calls.

CCS/SS7 Networks Connection Service is comprised of two parts; a Signaling Network Access Link (SNAL, consisting of Signaling Mileage Facility, Signaling Mileage Termination and Signaling Entrance Facility) and a Signaling Transfer Point (STP) Port. The SNAL is provided as a dedicated 56 kbps out-of-band signaling connection between the customer's SPOI and the STP Port on the STP.

The CCS/SS7 Networks Connection Service is provisioned by a mated pair of STPs as described in Technical Reference TR-TSV 000905 in order to ensure networks availability and reliability. The Company shall not be held liable for service outages if the customer employs technology related to the interconnection of signaling networks that do not adhere to generally accepted industry technical standards.

When CCS/SS7 Network Connection service is provisioned for use with SS7 Signaling, interconnection between signaling networks must occur at an STP.

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(M) Text shown here now appears on Page 6-24.1 of this Section.

6. SWITCHED ACCESS SERVICE (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.4 Switched Access Service Categories (Cont'd)

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6.2.4(F) Intermediate Transport Access Service

Intermediate Transport Service is the use of the Company's facilities to transport interstate switched access traffic between a third party end office switch and the Customer designated premises. Section 6.2.4(A) provides descriptions of the types of transport classifications provided by the Company under Intermediate Transport Access Service. Meet Point Billing, as provided in Section 2.4.7(B), applies in assessing Intermediate Transport charges since more than one Exchange Telephone Company is involved in the provision of the access service to the Customer. All recurring and nonrecurring charges for Intermediate Transport service provided by the Company are set forth in Section 15.3.2(C).

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6.2.5 Descriptions and Application of Rate

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6.2.5 (A) Recurring Rates

6.2.5 (A)1 Usage Rates for Switched Access Service are rates that apply on a per access minute or a per call basis. Access minute charges and per call charges are accumulated over a monthly period.

6.2.5 (A)2 Flat Rates for Switched Access Service are rates that apply on a per month per rate element basis.

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(M) Text shown here previously appeared on Page 6-24 of this Section.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.5 Descriptions and Application of Rate (Cont'd)6.2.5 (B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are: installation of service and service rearrangements. These charges are in addition to the Access Order Charge as specified in the Rates and Charges Section of this tariff.

6.2.5 (B)1 Installation of Service

A Local Transport nonrecurring installation charge, as set forth in the Rates and Charges Section of this tariff, will be applied per line or trunk installed.

A non-recurring Directory Access installation charge, as set forth in the Rates and Charges Section of this tariff, will apply per line or trunk ordered.

A non-recurring Interim NXX translation charge, as set forth in the Rates and Charges Section of this tariff, will apply per order.

6.2.5 (B)2 Service Rearrangements

All changes to existing services other than changes involving administrative will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity.

For conversion of FGD trunks from multifrequency address signaling to SS7 signaling or from SS7 signaling to multifrequency address signaling, nonrecurring charges will apply as set forth in the Rates and Charges Section of this tariff.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.5 Descriptions and Application of Rate (Cont'd)6.2.5 (B) Nonrecurring Charges (Cont'd)6.2.5 (B)3 Interim NXX Translation Optional Feature

This non-recurring charge applies to the initial order for the installation of the Interim NXX Translation optional feature with Feature Group C or Feature Group D Switched Access Service and for each subsequent order received to add or change NXX translation codes. This charge, if applicable, applies whether this optional feature is installed coincident with or at any time subsequent to the installation of Switched Access Services. This charge is applied by the Telephone Company per order, per LATA or Market Area. When it is necessary for multiple telephone companies to provide the translation function, the non-recurring charge is assessed only by the Telephone Company that provides the final translation function which identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.6 Billing Validation Service

The Company shall arrange to have its billing validation data stored in one of the existing Line Information Databases (LIDBs). It will be the responsibility of the Customer to identify this database through established industry procedures, and to query the billing validation data in the LIDB. Based on the received query information, the LIDB will respond with an SS7 formatted confirmation of validity or denial for the requested billing option. Access in LIDB provides Customers with potential toll fraud detection.

The LIDB will contain a record for every working line number and Billed Number Group served by the Company.

The Company will update the LIDB information on a daily basis.

LIDB service is provided on an on-line, call-by-call basis. Company data accessed from the LIDB shall remain the sole property of the Company, and may not be stored or reproduced by the Customer for any reason.

The Company will have procedures in place to deactivate billing validation data in the event that it is being used fraudulently.

6.2.7 Acceptance Testing

At no additional charge, the Company will, at the Customer's request, cooperatively test, at the time of the installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling.

6.2.8 Ordering Options and Conditions

Access Service is ordered under the Access Order provisions set forth in Section 5.

6.2.9 Competitive Pricing Arrangements

Competitive pricing arrangements can be furnished to meet the communication needs of specific customers on a case-by-case basis under individual contract.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)

6.3 Obligations of the Company

In addition to the obligations of the Company set forth in other sections of this tariff, the Company has certain other obligations concerning the provision of Switched Access service. These obligations are as follows:

6.3.1 Network Management

The Company will administer its network to ensure the provision of acceptable service levels to all telecommunications users of the Company's network Services. Generally, service levels are considered acceptable only when both end users and Customers are able to establish connections with little or no delay encountered within the Company network. The Company reserves the right to apply protective controls, (i.e., those actions, such as call gapping, which selectively cancel the completion of traffic), over any traffic carried over its network, including that associated with a Customer's Switched Access Service. Generally such protective measures would only be taken as a result of occurrences such as failure or overload of Company or Customer facilities, natural disasters, mass calling or national security demands. The Customer will notify the Company of anticipated peaked services as stated below. Based on the information provided, the Company will work cooperatively with the Customer to determine the appropriate level of control. In the event that the protective controls applied by the Company result in the complete loss of service by the Customer, the Customer will be granted a credit allowance for service interruption as set forth in Section 2.4.4.

When a Customer uses the Company's facilities to offer services for which a substantial call volume or peaked service is expected during a short period of time, the Customer must notify the Company at least 24 hours in advance of each peak period. For events scheduled during weekends or holidays, the Company must be notified no later than 5:00 p.m. local time the prior business day. Notification should include the nature, time, duration, and frequency of the event, an estimated call volume, and the NPA NXX and line number(s) to be used. On the basis of the information provided, the Company may invoke network management controls if required to reduce the probability of excessive network congestion. The Company will work cooperatively with the Customer to determine the appropriate level of such control. Failure to provide prescribed notification may result in Customer caused network congestion, which could result in discontinuance of service.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Switched Access Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups for Switched Access Service.

6.4.1 Non-Chargeable Features6.4.1 (A) Signaling System Seven (SS7)

This option provides out-of-band transmission of SS7 protocol signaling information between the Local Switching center switching system and the Customer's designated premises. Prior to installation of any SS7 circuits, the Customer must agree to participate in SS7 certification testing. The Company will provide a testing plan to the Customer, and reserves the right to deny SS7 connectivity if the Customer's circuits do not meet the testing requirement.

6.4.1 (B) Supervisory Signaling

Where the transmission parameters permit, and where signaling conversion is required by the Customer to meet its signaling capability, the Customer may order an optional supervisory signaling arrangement in the form of Multifrequency (MF) Signaling for each transmission path.

6.4.2 Feature Group D Optional Features6.4.2 (A) Common Switching Optional Features

6.4.2 (A)1 Alternate Traffic Routing: This option provides the capability of directing originating traffic from a Local Switching Center to a direct access Trunk group, with additional traffic overflowing to the access Tandem Trunk group and then to a Customer designated premises. Multiple Customer premises Alternate Routing is also available where originating traffic from a Local Switching Center is directed via a Trunk Group to a Customer designated premises until that group is fully loaded, and then additional originating traffic from the same Local Switching center or access tandem is delivered via a different Trunk Group to a second Customer designated Premise. The Customer shall specify the last Trunk CCS desired for the high use group.

ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Switched Access Optional Features (Cont'd)6.4.2 Feature Group D Optional Features (Cont'd)6.4.2 (A) Common Switching Optional Features (Cont'd)

6.4.2 (A)2 Automatic Number Identification (ANI): This option provides automatic in-band transmission signaling of a seven or ten- digit number and information digits to the Customer's premises for calls originating in the LATA for the identification of the calling station. The ANI feature is a Local Switching center software function which is associated on a call-by-call basis with: 1) all individual transmission paths in a trunk group routed directly between a Local Switching Center and a Customer's premises; or where technically feasible, 2) all individual transmission paths in a Trunk group between a Local Switching Center and an Access Tandem, and a Trunk group between an Access Tandem and a Customer's premises.

The ten-digit ANI telephone number is only available with Feature Group D. The ten-digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven-digit ANI telephone number. The ten-digit ANI telephone number will be transmitted on all calls except those identified as multi-party line or ANI failure in which case only the NPA will be transmitted.

6.4.2 (A)3 Call-Through: This option allows end users of the Customer to reach the Customer's premises by using the end of dialing digit (#) at the end of the dialing sequence. The Company will not record any other dialed digits for these calls.

6.4.2 (A)4 Service Class Routing: This option provides the capability of directing originating traffic from a Local Switching Center to a Trunk group to a Customer designated premises, based on the line class of service and service prefix indicator. A domestic Interexchange Carrier may not order more than four different routes per Local Switching Center or Access Tandem. An international Interexchange Carrier may order up to four additional routes.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Switched Access Optional Features (Cont'd)6.4.2 Feature Group D Optional Features (Cont'd)6.4.2 (A) Common Switching Optional Features (Cont'd)

- 6.4.2 (A)5 Feature Group D with 950 Access (feature Group B): This option provides for the routing of originating calls, dialed using a 950-10XX or 950-1XXX Access Code, to the FGD Customer using FGD signaling protocols and technical specification. The Customer is responsible for distinguishing between standard FGD calls and 950-dialed calls delivered over the same trunks.
- 6.4.2 (A)6 Basic Initial Address Message Delivery: This option permits the following optional SS7 signaling call setup parameters: User Service Information, Called Party Number, Calling Party Number, Charge Number, Originating Line Information, Transit Network Selection, Carrier Selection, Service Code and Access Transport.
- 6.4.2 (A)7 Called Directory Number Delivery: This option provides the Customer with the telephone number to which the call was directed. The seven-or-ten-digit number is provided as part of the in-band transmission with MF signaling. The Called Directory Number Delivery feature is associated on a call-by-call basis with all individual transmission paths in a Trunk group routed from an Access Tandem or the originating Local Switching Center. This option is available except when FGD is provided with 950 access (Feature Group B) or Cut-Through features.
- 6.4.2 (A)8 Flexible Automatic Number Identification Delivery: This feature is a network enhancement to ANI. The feature is available on inbound signaling or in the Originating Line Information Parameter in the Basic Initial Address Message Delivery optional feature for SS7 signaling. Flexible ANI will provide additional values for Information Indicator (II) digits that are associated with various classes of service not associated with the standard ANI digits. This feature may only be used in conjunction with ANI. The following Information Indicator codes are available: Confinement/Detention Facilities; Outward Wide Area Telecommunications Service; Cellular Service Private Pay Station; and, Access for Private Virtual Networks.

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ACCESS SERVICE

7. **SPECIAL ACCESS SERVICE**

Per FCC Order 17-43, Special Access Services have been de-tariffed, effective August 1, 2020. These services can now be found within the Company's online Special Access Services Catalog, located at: www.tdstelecom.com/tariffs/.

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8. LOCAL NUMBER PORTABILITY (LNP) QUERY SERVICE

8.1 General

LNP Query Service is a capability that utilizes Advanced Intelligent Network (AIN) technology to query a database to secure network routing instructions before completion of a call. The database contains information about end users which have ported their service from the donor switch. At a minimum, the database contains the Location Routing Number (LRN) which identifies the Local Service Provider's (LSP) switch serving each ported end user. The LRN is used to direct the call to the correct switch for completion to the end user. Where more than one network is involved in completing the call, the network just before the terminating network (i.e., the N-1 Network) is responsible for querying a LNP database to secure the LRN.

N-1 wireline and wireless telecommunications carrier ("Carriers") will be assessed a LNP query charge as set forth in Section 15 following where they deliver calls for termination by the Telephone Company for which a query has not been performed.

8.2 LNP Query Service Application

Terminating calls from N-1 Carriers upon which a query has not been performed to numbers in the Telephone Company's network with NXX codes from which a number is or has been ported that have been designated as number portable will require a query to the LNP database. There are two applications of the LNP network capability through the Telephone Company's network.

8.2.1. Prearranged LNP Query

N-1 Carriers may arrange in advance to have the Telephone Company query the LNP data base for terminating a call into the N-1 Telephone Company's network. This query is initiated on behalf of the Carrier in the performance of its N-1 responsibility. In this scenario, the Telephone Company's end office or access tandem switch will suspend call processing and launch a query to the LNP database. When the routing information is returned to the switch, call processing is resumed and the call is routed to the correct switch for completion to the called party. The Carrier will be assessed with either an end office or a tandem LNP Query depending upon where the query is launched.

8.2.2. Default LNP Query

Carriers who have not arranged in advance to have the Telephone Company query the LNP database or otherwise do not qualify for the prearranged query rate and terminate calls into the Telephone Company's network without having performed the appropriate database query will be assessed a Default LNP Query. This query is initiated on behalf of the N-1 Carrier in the performance of its N-1 responsibility, and may require the Telephone Company to assume extraordinary measures to meet the demand of unforecasted default queries.

8. LOCAL NUMBER PORTABILITY (LNP) QUERY SERVICE (Cont'd)8.3 LNP Surcharge

The Telephone Company queries the database, as required, on behalf of its local exchange, line side access service customers and resale customers to enable completion of calls to numbers with NXX codes that have been designated as number portable. This service is "automatically" provided as part of the dialing process employed in the Telephone Company's local exchange and access network.

On calls placed to numbers with NXX codes that have been designated as number portable, an originating LNP capable switch, using advanced intelligent network capabilities will suspend a call processing, formulate and launch a query via the common channel signaling network to a database containing information necessary to route calls to number portable NXX codes. When the necessary routing information has been returned from the database to the switch originating the query, call processing is resumed and the call is routed to the correct network switching element for completion to the called party.

The LNP Surcharge Service rate element applies to and provides the capability necessary for three Telephone Company's local and general exchange and lineside access services (e.g., FGA customers to: (1) maintain the same telephone number when changing from one Telecommunication Service Provider to another while remaining at the same location, and (2) to complete calls to any telephone number that has been ported.

This capability is automatically provided as part of the local dialing process employed in the Telephone Company's local exchange network.

This charge applies per line capable of originating local exchange calls with the following exceptions:

PBX trunks will be assessed the equivalent of 9 monthly rates; and
ISDN PRI will be assessed 5 monthly rates.

8.4 Service Provisioning

LNP Query Service will only be available at specially designated switches.

LNP Query Service procedures will be applied uniformly to all users of the Telephone Company's LNP Query Service except as stated in 8, following. The Telephone Company's LNP database will receive and respond to all queries, including the Telephone Company's queries.

8. LOCAL NUMBER PORTABILITY (LNP) QUERY SERVICE (Cont'd)

8.4.1. Manner of Provisioning

LNP Query Service will be provisioned using the LRN. The LRN associates an NPA NXX-XXXX number with each central office switch that serves ported lines. This number will be known as the LRN for that switch. The LRN will be used as a network routing number for calls to ported numbers serviced by that switch. All switching equipment types will utilize LRN functionality using Advanced Intelligent Network capability (AIN).

8.4.2. Limitations

LNP Query Service is to be used only on a call-by-call basis for routing calls to number portable NXX codes and cannot be used for purposes other than those functions described herein.

Information residing in the Telephone Company's LNP database is protected from unauthorized access and may not be stored in a carrier's database or elsewhere for any reason.

8.4.3. Network Management

The Telephone Company will administer its network with the objective of the provision of acceptable service levels to all users of LNP query service.

The Telephone Company maintains the right to block LNP Query traffic, in a nondiscriminatory manner, where the processing of the LNP queries threatens to disrupt operation of its network and impair network reliability. The provision of LNP Query Service for both default and prearranged queries is subject to the provisions of Section 2.

8.5 Rate Regulations

The rates and charges associated with LNP Query Services are "query" based and will be billed on a monthly basis, based on recorded usage. Query charges will be applied by the Telephone Company based upon the recordings of carrier queries to the database. If such recordings are not available, the Telephone Company will develop monthly charges based on an average number of queries per month.

ACCESS SERVICE

9. SPECIAL CONSTRUCTION9.1 Special Construction9.1.1 Basis for Rates and Charges

Rates and charges for special construction will be determined by the Company on an Individual Case Basis and based, in part, on the costs incurred by the Company and may include (1) non-recurring type charges, (2) recurring type charges, (3) termination liabilities, or (4) combinations thereof.

9.1.2 Termination Liability

To the extent that there is no other requirement for use by the Company, a termination liability may apply for facilities specially constructed at the request of the Customer.

9.1.2 (A) The termination liability period is the initial service term with respect to said specially constructed facilities.

9.1.2 (B) The amount of maximum termination liability is equal to the rates and charges established pursuant to Section 9.1.1 above:

9.1.2 (C) The applicable termination liability charge is based on the normal method for calculating the unpaid balance of a term obligation. The amount of such charge is obtained by multiplying the sum of the amounts determined as set forth in Section 9.1.1 preceding by a factor related to the unexpired period of liability and the discount rate for return and contingencies. This product is adjusted to reflect applicable taxes.

9.2 Individual Case Basis Arrangement

When the Company furnishes a facility or service for which a rate or charge is not specified in the Company's tariffs, charges will be determined on an Individual Case Basis. Specialize rates or charges will be made available to similarly situated Customers on a nondiscriminatory basis.

ACCESS SERVICE

10. Reserved For Future Use

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ACCESS SERVICE**11. Additional Engineering, Additional Labor and Miscellaneous Services**

In this section, normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 8:00 a.m. to 5:00 p.m.) for the application of rates based on working hours.

A Miscellaneous Service Order charge as described in 5.4.2 preceding may be applicable to services ordered from this section.

11.1 Additional Engineering

Additional Engineering, including engineering reviews as set forth in 5.4.3 preceding, will be undertaken only after the Telephone Company has notified the customer that additional engineering charges apply as set forth in 15.5.2 following, and the customer agrees to such charges.

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

- (A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR).
- (B) Additional Engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.2 preceding.
- (C) A customer requested Design Change requires the expenditure of Additional Engineering time. Such Additional Engineering time is incurred by the Telephone Company for the engineering review as set forth in 5.4.3 preceding. The charge for additional engineering time relating to the engineering review, which is undertaken to determine if a design change is indeed required, will apply whether or not the customer authorizes the Telephone Company to proceed with the Design Change. In this case the Design Change charge, as set forth in 15.5.1(C) following, does not apply unless the customer authorizes the Telephone Company to proceed with the Design Change.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 11.2.1 through 11.2.5 following. The Telephone Company will notify the customer that Additional Labor charges as set forth in 15.5.3 following will apply before any additional labor is undertaken. A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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(b)11.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

11.2.2 Overtime Repair

Overtime repair is that Telephone Company effort performed outside of normally scheduled working hours.

11.2.3 Standby

Standby includes all time in excess of one-half (1/2) hour during which Telep Company personnel standby to make installation acceptance tests or cooperative tests with a customer to verify facility repair on a given service.

11.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect other telephone companies is that which is in addition to the normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

11.2.5 Other Labor

Other labor is that additional labor not included in 11.2.1 through 11.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.3 Miscellaneous Services11.3.1 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 15.5.4 following. A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. Other testing services are provided by the Telephone Company in association with Access Services and are furnished at no additional charge.

Testing Services are normally provided by Telephone Company personnel at Telephone Company locations; however, provisions are made in (B)(2) following for a customer to request Telephone Company personnel to perform Testing Services at the customer designated premises.

The offering of Testing Services 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 Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, (i.e., Acceptance Tests), (b) tests which are performed after customer acceptance of such access services and which are without charge (i.e., routine testing) and (c) additional tests which are performed during or after customer acceptance of such access services and for which additional charges apply, (i.e., Additional Cooperative Acceptance Tests and in-service tests).

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.3 Miscellaneous Services (Cont'd)11.3.1 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)

Routine tests are those tests performed by the Telephone Company on a regular basis, which are required to maintain Switched Access Service. Additional in-service tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a manual basis [Telephone Company technician(s) involved at Telephone Company office(s) and Telephone Company or customer technician(s) involved at the customer designated premises].

Testing services are ordered to the end office for FGs C and D. Testing Services for Directory Assistance Service not routed through an access tandem is ordered to a Directory Assistance Location for each NPA. (T)

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provision of a technician at its premises, with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

- Impulse Noise
- Phase Jitter
- Signal to C-Notched Noise Ratio
- Intermodulation (Nonlinear) Distortion
- Frequency Shift (Offset)
- Envelope Delay Distortion
- Dial Pulse Percent Break

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

11.3 Miscellaneous Services (Cont'd)

11.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Additional Automatic Testing

Additional Automatic Testing (AAT) of Switched Access Services (Feature Groups C and D), is a service where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. The customer may order, at additional charges, gain-slope and C-notched noise testing and may order the routine tests (1004 Hz loss, C-Message Noise and Balance) on an as needed or more than routine schedule.

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The Telephone Company will provide an AAT report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

The Additional Tests, (i.e., gain slope, C- notched noise, 1004 Hz loss, C-message noise and balance) may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The rates for Additional Automatic Tests are as set forth in 15.5.4(B) following.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.3 Miscellaneous Services (Cont'd)11.3.1 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)(3) Additional Manual Testing

Additional Manual Testing (AMT) of Switched Access Services (Feature Groups C and D and Directory Access Service not routed through an access tandem), is a service where the Telephone Company provides a technician at its office(s) and the Telephone Company or customer provides a technician at the customer designated premises, with suitable test equipment to perform the required tests. Such additional tests will normally consist of gain-slope and C-notched noise testing. However, the Telephone Company will conduct any additional tests which the IC may request.

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The Telephone Company will provide an AMT report listing the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on a per occurrence basis.

The Additional Manual Tests may be ordered by the customer at additional charges, 60 days prior to the start of the testing schedule as mutually agreed to by the customer and the Telephone Company.

The rates for Additional Manual Testing are as set forth in 15.5.4(C) following.

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Continued)

11.3 Miscellaneous Services (Continued)

11.3.1 Testing Services (Continued)

(A) Switched Access Service (Continued)

(4) Obligations of the Customer

(A) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support routine testing.

(B) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Continued)

11.3 Miscellaneous Services (Continued)

11.3.1 Testing Services (Continued)

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

11.3 Miscellaneous Services (Cont'd)

11.3.2 Maintenance of Service

- (A) When a customer reports a 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 as set forth in 15.4.4(F) following for the period of time from when Telephone Company personnel are dispatched, at the request of the customer, to the customer designated 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 designated premises, and the trouble is in equipment or 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.

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

11.3 Miscellaneous Services (Cont'd)

11.3.3 Reserved for Future Use (Cont'd)

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.3 Miscellaneous Services (Cont'd)11.3.4 Miscellaneous Equipment(A) Controller Arrangement

This arrangement enables the customer to control up to 48 transfer functions at a Telephone Company central office via a remote keyboard terminal capable of either 300 or 1200 bps operation. Included as part of the Controller Arrangement is a dial-up data station located at the Telephone Company Central Office to provide access to the Controller Arrangement. This dial-up data station consists of a 212A DATAPHONE data set and an appropriate Telephone Company provided channel.

The Controller Arrangement must be located in the same Telephone Company central office as the transfer functions which it controls.

Charges for the Controller Arrangement are set forth in 15.5.4(G) following.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.4 Presubscription

Pursuant to the Federal Communications Commission's Memorandum Opinion and Order, CC Docket No. 83-1145, Phase I, adopted May 31, 1985, and released June 12, 1985, the Allocation Plan, outlined in the Appendix B of this Order, will be available for inspection in the Public Reference Room of the Tariff Division at the Federal Communications Commission's Washington, D.C., location or may be obtained from the Commission's commercial contractor.

- (A) Presubscription is the process by which end user customers may select and designate to the Telephone Company an IC to access, without an access code, for interLATA, interstate calls. This IC is referred to as the end user's predesignated IC.
- (B) On the effective date of this tariff, all existing end users have access to interstate MTS/WATS. No later than 85 days prior to conversion to Feature Group D in a serving end office, the Telephone Company will notify end users of the availability of equal access in their particular area. The notification will include the names of all ICs wishing to participate in the presubscription process. This notification will be sent via U.S. Mail to each end user of record served by the end office to be converted.
- (C) End users may select one of the following options at no charge:
- indicate a primary IC for all of its lines,
 - indicate a different IC for each of its lines.

Only one IC may be selected for each line or lines terminating in the same hunt group.

End users may designate that they do not want to presubscribe to any IC. The end user must arrange this designation by directly notifying the Telephone Company's code (10XXX or 101XXXX) for all interstate calls.

After the end user's initial selection of a predesignated IC or the designation that they do not want to presubscribe to any IC, for any change in selection after conversion to Equal Access in the serving end office, a nonrecurring charge, as set forth in 15.5.4(H) following applies.

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ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.4 Presubscription (Cont'd)

- (D) End users not responding to the initial notification will be sent a second notification for the selection of a predesignated IC no earlier than 40 days prior to or no later than 90 days after the conversion to Equal Access in a serving end office. This second notification will indicate the primary IC that has been assigned to them if they fail to respond to the second notification.

After the allocation process has been completed, end users assigned to an IC via the allocation process may change their IC one time within six months after conversion to Equal Access in the serving end office at no charge.

Following the six month period after conversion to Equal Access for any change in selection, a nonrecurring charge as set forth in 15.5.4(H) following, applies.

- (E) When an end user indicates more than one IC selection on the return notification or returns an illegible return notification, the Telephone Company will contact the end user for clarification. If the end user indicates an IC selection on the return notification that does not match with information provided by an IC and both notifications indicate the same authorization date, the end user's notification takes precedence and the Telephone Company will process the end user's selection.

In the event that two or more ICs provide to the Telephone Company notifications with the same authorization date and neither notification has been processed, the Telephone Company will contact the end user for clarification. A list of these end users in conflict must be sent to the affected IC by the Telephone Company.

In the event that two or more ICs have provided to the Telephone Company notifications with the same authorization date(s), and one IC notification has already been processed by the Telephone Company, those IC notifications not yet processed would be returned to the ICs.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.4 Presubscription (Cont'd)

(F) New end users who are served by end offices equipped with Feature Group D will be asked to presubscribe to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service. They may select either of the following options. There will be no charge for this initial selection.

- designate a primary IC for all of its lines,
- designate a different IC for each of its lines.

Only one IC may be selected for each individual line, or lines terminating in the same hunt group. Subsequent to the installation of Telephone Exchange Service and after the end user's initial selection of a predesignated IC, for any change in selection, a nonrecurring charge, as set forth in 15.5.4(H) following, applies.

(G) If the new end user fails to designate an IC as its predesignated IC prior to the date of installation of Telephone Exchange Service, the Telephone Company will (1) allocate the end user to an IC based upon current IC presubscription ratios, (2) require the end user to dial an access code (10XXX or 101XXXX) for all interstate calls, or (3) block the end user from interstate calling. The end user will be notified which option will be applied if they fail to presubscribe to an IC. An allocated or blocked end user may designate another, or initial, IC as its predesignated IC one time at no charge, if it is requested within six months after the installation of Telephone Exchange Service.

For any change in selection after 6 months from the installation of Telephone Exchange Service, a nonrecurring charge, as set forth in 15.5.4(H) following applies.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.4 Presubscription (Cont'd)

- (H) If an IC elects to discontinue its Feature Group D service offering prior to or within 2 years of the conversion, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are canceling their service and that they should contact the Telephone Company to select a new primary IC. The IC will also inform the end user that it will pay the presubscription change charge. The canceling IC will then be billed by the Telephone Company the appropriate charge for each end user for a period of two years from the discontinuance of Feature Group D service.
- (I) If an IC elects to change or discontinue use of a Carrier Identification Code (CIC) for any reasons other than those set forth in (H) above, the IC will identify to the Telephone Company any affected end users and advise the Telephone Company of the new CIC to be assigned to these end users. If the CIC change involves a change of carrier for any end users, the IC will notify the affected end users of the change. The Telephone Company will change the predesignated carrier code of each end user identified by the IC to the new CIC and bill the IC the nonrecurring charge set forth in 15.4.4(I) following for each end user line or trunk that is changed.

11.5 Verification of Orders for Long Distance Telemarketing

No IC shall submit to the Telephone Company a Primary Interexchange Carrier (PIC) change order generated by telemarketing unless and until the order has first been confirmed in accordance with one of the following procedures:

- (A) The IC obtains the billed party's (e.g., an end user or the designator of the PIC for a pay telephone) written authorization to submit the PIC change order. The written authorization shall take the form of a letter of agency which:
- shall be a separate document whose sole purpose is to authorize an interexchange carrier to initiate a primary interexchange carrier change.
 - shall be signed and dated by the billed party of the telephone line(s) requesting the primary interexchange carrier change.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.5 Verification of Orders for Long Distance Telemarketing (Cont'd)

(A) (Cont'd)

- shall not be combined with inducements of any kind on the same document.
- shall not suggest or require that the billed party take some action in order to retain the billed party's current interexchange carrier.
- shall have all portions translated into another language if any portion of the letter of agency is translated into another language.
- may be combined with checks that contain only the required letter of agency language that follows and the necessary information to make the check a negotiable instrument. At a minimum, the letter of agency should be printed with a type of sufficient size and readable type to be clearly legible and must contain clear and unambiguous language that confirms:
 - The billed party's billing name and address and each telephone number to be covered by the PIC change order; and
 - The billed party's decision to change the PIC to the IC; and
 - The billed party's intention to designate the interexchange carrier to act as its agent for the PIC change; and
 - The billed party's understanding that only one interexchange carrier may be designated as the billed party's interstate primary interexchange carrier for any one telephone number. To the extent that a jurisdiction allows the selection of additional primary interexchange carriers, the letter of agency must contain separate statements regarding these choices. Any carrier designated as a primary interexchange carrier must be the carrier directly setting the rates for the billed party. One interexchange carrier can be both the billed party's interstate primary interexchange carrier and a billed party's intrastate primary interexchange carrier; and

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11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.5 Verification of Orders for Long Distance Telemarketing (Cont'd)

(A) (Cont'd)

- The billed party's understanding that they may incur a charge for changing the primary interexchange carrier, or

(B) The IC obtains the billed party's electronic authorization to submit the PIC change order. The billed party will place a call, from the telephone number(s) on which the PIC is to be changed, to a toll free telephone number that is dedicated to the IC's PIC verification process. The verification number will connect the billed party to a voice response unit that records the originating ANI and the required information described in (A) preceding; or

(C) An appropriately qualified and independent third party, operating in a location physically separate from the telemarketing representative, obtains the billed party's oral authorization to submit the PIC change order. This authorization must confirm the order and include appropriate verification data (e.g., the billed party's date of birth or social security number); or

(D) Within three business days of the billed party's request for a PIC change, the IC must send them an information package by first class mail which includes:

- a statement that the enclosed information is being sent to confirm a telemarketing order placed by the billed party within the previous week,
- the name of the current and soliciting ICs,
- the terms, conditions or charges for the PIC change,
- the name of the person who ordered the change,
- the name, address and telephone number of both the customer and the soliciting IC,
- a statement advising the billed party that, absent their response, the change will be implemented 14 days from the date the information package was mailed to them,

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.5 Verification of Orders for Long Distance Telemarketing (Cont'd)

- the name, address and telephone number of a contact point at the FCC for consumer complaints.

The IC must provide a postpaid postcard which the billed party can use to deny, cancel or confirm the order. The IC must wait 14 days after the information package is mailed to the billed party before submitting the PIC change order to the Telephone Company.

11.6 Unauthorized PIC Change

If an IC requests a Primary Interexchange Carrier (PIC) change on behalf of a billed party (e.g., an end user or the designator of the PIC for a pay telephone), and the billed party subsequently denies requesting the change, and the IC is unable to substantiate the change with a letter of authorization signed by the billed party; then:

- The billed party will be reassigned to its previously selected IC. No charge will apply to the billed party for this reassignment.
- The Unauthorized Presubscription Change Charge as set forth in 15.5.4(I) will apply to the IC that requested the unauthorized PIC change. This charge is applied in addition to the \$5.00 PIC change charge.

11.7 Presubscription Exceptions

When centralized Equal Access is provided in cooperation with Minnesota Independent Equal Access Corporation, the following presubscription exceptions apply:

- The initial Telephone Company notification to end users of the availability of Equal Access in their particular area will be provided between 105 and 270 days prior to the conversion of the serving end office to Feature Group D.
- The second notification for the selection of presubscribed IC will be between 65 and 230 days prior to the conversion to Equal Access in a serving end office.

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

11.7 Presubscription Exceptions (Cont'd)

- All end users will be notified by the Telephone Company of the actual conversion date to Equal Access between one and three weeks prior to such conversion. This notification will also show the end user's selected or assigned IC and will advise the end user that if they desire to change their presubscribed IC they may contact the Telephone Company prior to the conversion of their end office and the change will be made at no charge.

11.8 Blocking Service

11.8.1 International Blocking Service

The Telephone Company will provide International Blocking Service to customers who obtain local exchange service from the Telephone Company under its general or local exchange tariffs. This service is only provided at appropriately equipped Telephone Company end offices. Those offices providing International Blocking Service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(T)

On each line or trunk for which International Blocking Service is ordered, the Telephone Company will block all direct dialed international calls that use the call sequence of 011+ or 10XXX-011+ or 101XXXX-011+.When capable, the Telephone Company will route the blocked calls to a recorded message.

An International Blocking Service charge as set forth in 15.5.4(J) following is applicable for each new or existing exchange line to which International Blocking Service is added or removed. This charge does not apply when blocking is removed from an exchange line at the same time that it is disconnected.

(T)

(T)

ACCESS SERVICE

11. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)11.8 Blocking Service (Cont'd)11.8.1 International Blocking Service (Cont'd)

A Miscellaneous Service Order Charge as set forth in 15.5.1(D) will apply to orders adding or removing International Blocking Service that are placed subsequent to the initial installation of the associated exchange line(s) or trunk(s). This charge does not apply when blocking is removed from an exchange line or trunk.

(T)
(T)11.8.2 900 Blocking Service

The Telephone Company will provide 900 Blocking Service to customers who obtain local exchange service from the Telephone Company under its general or local exchange tariffs. This service is only provided at appropriately equipped end offices. Those offices providing 900 Blocking Service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(T)

On each line or trunk for which 900 Blocking Service is ordered, the Telephone Company will block all direct dialed calls placed to a 900 number. When capable, the Telephone Company will route the blocked calls to a recorded message.

A Blocking Service charge as set forth in 15.5.4(J) following is applicable when ordered by the end user customer with the following exceptions:

- Blocking access to 900 Service is offered to all subscribers at no charge from November 1, 1993 through December 31, 1993.
- Blocking access to 900 Service is offered to all subscribers at no charge at the time telephone service is established at a new number and for 60 days thereafter.

The Blocking Service charge is applied for each line, trunk or Feature Group A Switched Access service to which 900 Blocking Service is added or removed. Requests by subscribers to remove 900 Blocking Service must be in writing. This charge does not apply when blocking is removed from an exchange line or trunk or Feature Group A Switched Access line at the same time that it is disconnected.

ACCESS SERVICE

APPROVED

12. TELECOMMUNICATIONS SERVICE PRIORITY

(T)

A. General

(N)

The Telecommunications Service Priority (TSP) Program is a federal program used to identify and prioritize telecommunications services that support National Security and Emergency Preparedness (NS/EP) missions.

NS/EP services are defined as those telecommunications services which are used to maintain a state of readiness or respond to and manage any event or crisis which causes or could cause injury or harm to the population, damage or loss to property, or degrades or threatens the NS/EP posture of the United States.

TSP restoration and/or provisioning shall be provided in accordance with Part 64.401, Appendix A of the Federal Communications Commission's Rules and Regulations (47 C.F.R.) and the "Service Vendor Handbook for the Telecommunications Service Priority (TSP) Program" and the "Service User Manual for the Telecommunications Service Priority (TSP) System" (NCS Manual 3-1-1) (Service User Manual) issued and updated as necessary by the Office of Priority Telecommunications (OPT) of the National Communications System. Any changes to or re-issuance of these regulations or manuals supersede tariff language contained herein.

B. Terms and Conditions

TSP service is limited to telecommunications services which the Telephone Company can discretely identify for priority provisioning and/or restoration.

The customer subscribing to TSP service must also be the customer subscribing to the services with which TSP is associated.

Under certain conditions it may be necessary to preempt one or more customer services with a lower or no restoration priority in order to install or restore service which subscribes to TSP service of a higher priority. If such preemption is necessary, the Telephone Company will make reasonable effort to notify the preempted service customer of the action to be taken. Credit allowance for such service preemption shall be made in accordance with Section 2.4.4

(N)

ACCESS SERVICE

(N)

12. TELECOMMUNICATIONS SERVICE PRIORITY (continued)

APPROVED

B. Terms and Conditions (continued)

TSP service is limited to telecommunications services which the Telephone Company can discretely identify for priority provisioning and/or restoration.

The customer subscribing to TSP service must also be the customer subscribing to the services with which TSP is associated.

Under certain conditions it may be necessary to preempt one or more customer services with a lower or no restoration priority in order to install or restore service which subscribes to TSP service of a higher priority. If such preemption is necessary, the Telephone Company will make reasonable effort to notify the preempted service customer of the action to be taken. Credit allowance for such service preemption shall be made in accordance with Section 2.4.4

The customer, in obtaining TSP service acknowledges and consents to the Telephone Company providing customer service record information to the Federal Government to administer service per the TSP Service Vendor Handbook. The customer service record information will include: TSP Authorization Code and the Telephone Company Circuit ID.

Credit allowance for service interruption for TSP shall be the same as with the service it is associated. See Section 2.4.4

When performing a service under TSP, the Telephone Company may not be in a position to notify the customer in advance when additional labor charges apply. The TSP subscriber recognizes that quoting charges and obtaining permission to proceed would cause delays and would be contrary to the objectives of the TSP Service. In subscribing to TSP service the customer recognizes this condition and grants the Telephone Company the right to bill for applicable charges to restore service(s).

All other terms, conditions, rates and charges for services may apply as specified elsewhere when provided in conjunction with TSP service.

When Priority Restoration Maintenance and Administration is discontinued and the associated Access Services is continued in service, the charge specified in Section 15.8.2 will not apply.

(N)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications

13.1 contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Local Transport Termination) and Transmission Specifications. 13.2 describes Special Access Service Network Channel (NC) codes and Network Channel Interface (NCI) codes.

13.1 Switched Access Service

Ten Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, and at the option of the customer, the Entrance Facility may be provided with optional features as set forth in 13.1.1 following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated 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 designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

13.1.1 Local Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the point of termination at the customer designated premises. The technical specifications concerning the available interface groups are set forth in (A) through (D) following.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)13.1 Switched Access Service (Cont'd)13.1.1 Local Transport Interface Groups (Cont'd)

Interface Group 1 is provided with Type C Transmission Specifications, as set forth in 13.1.2(C) following, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, as set forth respectively in 13.1.2(E) and (F) following, 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.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups.

(A) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

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 FGC or FGD when the first point of switching provides only four-wire terminations. (T)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(A) Interface Group 1 (Cont'd)

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center 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 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reversed battery signaling. (T)

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center 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.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(B) Interface Group 2 (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(T)

(C)

(D)

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)13.1 Switched Access Service (Cont'd)13.1.1 Local Transport Interface Groups (Cont'd)(D) Interface Groups 6 through 10

Interface Groups 6 through 10 provide digital transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the nominal bit rates illustrated following, with the capability to channelize 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 transmission paths of 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 a DS1 signal(s) in D3/D4 format.

The interfaces are provided with individual transmission path bit stream supervisory signaling.

| <u>Interface Group Identification No.</u> | <u>Nominal Bit Rate (Mbps)</u> | <u>Digital Hierarchy Level</u> | <u>Maximum No. of Channelized Voice Freq. Trans. Paths</u> |
|---|--------------------------------|--------------------------------|--|
| 6 | 1.544 | DS1 | 24 |
| 9 | 44.736 | DS3 | 672 |

(D)

(D)

(D)

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13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(E)

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following features in association with Local Transport. An Access Order Charge as specified in 15.5.1(A) is applicable on a per order basis when nonchargeable optional features are added subsequent to the installation of service.

(T)

(D)

(D)

- 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.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(E) Local Transport Optional Features (Cont'd)

The Interface Groups, as described in (A) through (D) preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standardly associated with the Interface Groups.

- For Interface Groups 1 and 2 associated with FGC or FGD (T)
- E&M Type I Supervisory Signaling, (D)
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling
- For Interface Group 2 associated with FGC or FGD and in (T)
addition to the preceding
SF Supervisory Signaling, or
Tandem Supervisory Signaling
- For Interface Groups 3 through 5
Optional Supervisory Signaling Not Available
- For Interface Groups 6 through 10

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 first point of switching provides an analog (i.e., non-digital) interface to the transport termination.

These optional Supervisory Signaling arrangements not available in combination with the SS7 optional feature as described in 6.8.1 preceding.

Additionally, in (F) following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company Switch Supervisory Signaling and Feature Group.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes

Following is a matrix showing premises interface codes which are available for each Interface Group. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Parameter Codes and Options as set forth in 13.2.2(A) following.

| <u>Interface Group</u> | <u>Telephone Company Switch Supervisory Signaling</u> | <u>Premise Interface Code</u> | <u>Feature Group</u> | | | |
|------------------------|---|-------------------------------|----------------------|----------|----------|----------|
| | | | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> |

1

(D)

2

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

| <u>Interface Group</u> | <u>Telephone Company Switch Supervisory Signaling</u> | <u>Premise Interface Code</u> | <u>Feature Group</u> | | | |
|------------------------|---|-------------------------------|----------------------|----------|----------|----------|
| | | | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> |

2 (Cont'd)

| | | | | | | |
|--|-----|------|--|--|---|---|
| | SS7 | 4NO2 | | | X | X |
|--|-----|------|--|--|---|---|

(D)

 (D)

 (D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

| <u>Interface Group</u> | <u>Telephone Company Switch Supervisory Signaling</u> | <u>Premise Interface Code</u> | <u>Feature Group</u> | | | | |
|------------------------|---|-------------------------------|----------------------|----------|----------|----------|-----------------|
| | | | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | |
| 6 | | | | | | | (P) (D) |
| | SS7 | 4DS9-15 | | | X | X | (D) |
| 7 | | | | | | | (P) (D) |
| | SS7 | 4DS9-31 | | | X | X | (D) |
| 8 | | | | | | | (P) (D) |
| | SS7 | 4DS0-63 | | | X | X | (D) |
| 9 | | | | | | | (P) (D) |
| | SS7 | 4DS6-44 | | | X | X | (D) |
| 10 | | | | | | | (P) (D) |
| | SS7 | 4DS6-27 | | | X | X | (D) |

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, are set forth in (A) through (D) following. Descriptions of each of these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in (E) through (G) and 13.1.3(A) and (B) following:

(A)

(D)

(B)

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)13.1 Switched Access Service (Cont'd)13.1.2 Standard Transmission Specifications (Cont'd)(C) Feature Group C

FGC is provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or Type C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer designated premises and the end office when directly routed to the end office, and between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

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13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(D) Feature Group D

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer designated premises and the end office when directly routed to the end office. Type DA Data Transmission Parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(E)

(D)

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(E)

(D)

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(E)

(D)

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(F)

(D)

(D)

(D)
(D)

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13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(F)

(D)

(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(F)

(D)

(D)

(G) 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 \pm 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.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)13.1 Switched Access Service (Cont'd)13.1.2 Standard Transmission Specifications (Cont'd)(G) Type C Transmission Specifications (Cont'd)(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 C1</u> | <u>Type C2</u> |
| less than 50 | 32 dBrnCO | 38 dBrnCO |
| 51 to 100 | 33 dBrnCO | 39 dBrnCO |
| 101 to 200 | 35 dBrnCO | 41 dBrnCO |
| 201 to 400 | 37 dBrnCO | 43 dBrnCO |
| 401 to 1000 | 39 dBrnCO | 45 dBrnCO |

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

* For Feature Groups C and D, only Type C2 will be provided.

(T)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(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 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 |

(D)
(D)

13.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. Type DB is provided with Feature Groups C and D when Feature Group D is directly routed to the end office. Type DA is only provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

(T)

(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.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(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 |

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBnCO 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) | 37 dB |

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)

13.1 Switched Access Service (Cont'd)

13.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5⁰ peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(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

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Cont'd)13.1 Switched Access Service (Cont'd)13.1.3 Data Transmission Parameters (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° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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(D)

ACCESS SERVICE

135. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

13. Access Service Interfaces and Transmission Specifications (Continued)

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ACCESS SERVICE

14. RESERVED FOR FUTURE USE

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ACCESS SERVICE

15. Rates and Charges – TDS Metrocom

15.1 Federal Universal Service Charge

15.1.1 Federal Universal Service Charge (FUSC)

Regulations concerning the Federal Universal Service Charge are set forth in Section 3 preceding.

| | <u>Percentage</u> |
|---------------------------|-------------------|
| (A) FUSC Surcharge Factor | (1) |

(1) As approved by the Federal Communications Commission (FCC).

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ACCESS SERVICE

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15. Rates and Charges – TDS Metrocom (Continued)

15.2 End User Access Service

Regulations concerning End User Access Service are set forth in Section 4 proceeding.

(A) The rates for End User Common Line are:

| | <u>Rate Per Month</u> |
|--|-----------------------|
| (1) Primary Residence | |
| - Individual line or trunk, each | |
| State of Wisconsin | |
| - Appleton, Milwaukee, Madison & Stoughton Market Areas | \$6.50 |
| - Middleton Market Area | 6.50 |
| - Fitchburg Central, Monona, Sun Prairie, Cottage Grove, McFarland, Merrimac, Oregon, Portage, Sauk City, Baraboo, DeForest/Windsor, Witwen, Stevens Point, Wausau, Neenah, Kaukauna, Little Chute, Sheboygan Falls, Lodi, New Berlin, Brookfield, Muskego, Watertown, Waukesha, Newtonburg, Twin Lakes, West Bend, Newburg, & Marshfield Market Areas | No Charge |
| State of Illinois | 6.50 |
| State of Michigan | 6.50 |
| State of Minnesota | 6.50 |
| State of North Dakota | 6.50 |
| State of New Hampshire | 6.50 |
| State of Idaho | No Charge |
| State of Washington | No Charge |

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ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.2 End User Access Service

(A) The rates for End User Common Line are: (Continued)

(2) Non-Primary Residence

- Individual line or trunk, each

Rate Per Month

State of Wisconsin

- Appleton, Milwaukee, Madison
& Stoughton Market Areas

\$6.50

- Middleton Market Area

6.50

Fitchburg Central, Monona, Sun Prairie,

No Charge

Cottage Grove, McFarland, Merrimac,

Oregon, Portage, Sauk City, Baraboo,

DeForest/Windsor, Witwen, Stevens Point,

Wausau, Neenah, Kaukauna, Little Chute,

Sheboygan Falls, Lodi, New Berlin, Brookfield

Muskego, Watertown, Waukesha, Newtonburg,

Twin Lakes, West Bend, Newburg, &

Marshfield Market Areas

(T)
(T)

State of Illinois

6.50

State of Michigan

6.50

State of Minnesota

6.50

State of North Dakota

6.50

State of New Hampshire

6.50

State of Idaho

No Charge

State of Washington

No Charge

ACCESS SERVICE

APPROVED

15. Rates and Charges – TDS Metrocom (Continued)

15.2 End User Access Service (Continued)

(A) The rates for End User Common Line are: (Continued)

| | <u>Rate Per Month</u> |
|--|-----------------------|
| (3) Single Line Business Subscriber | |
| - Individual line or trunk, each | |
| State of Wisconsin | |
| - Appleton, Milwaukee, Middleton, Madison, & Stoughton Market Areas | \$7.00 |
| - Fitchburg Central, Monona, Sun Prairie, Cottage Grove, McFarland, Merrimac, Oregon, Portage, Sauk City, Baraboo, DeForest/Windsor, Witwen, Stevens Point, Wausau, Neenah, Kaukauna, Little Chute, Sheboygan Falls, Lodi, New Berlin, Brookfield, Muskego, Watertown, Waukesha, Newtonburg, Twin Lakes, West Bend, Newburg, & Marshfield Market Areas | No Charge |
| State of Illinois | 7.00 |
| State of Michigan | 7.00 |
| State of Minnesota | 7.00 |
| State of North Dakota | 7.00 |
| State of New Hampshire | 6.50 |
| State of Idaho | No Charge |
| State of Washington | No Charge |

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ACCESS SERVICE

APPROVED

15. Rates and Charges – TDS Metrocom (Continued)

15.2 End User Access Service (Continued)

(A) The rates for End User Common Line are: (Continued)

| | <u>Rate Per Month</u> |
|--|-----------------------|
| (4) Multi-line Business Subscribers, including Centrex CO and CO-Like | |
| - Individual line or trunk, each | |
| State of Wisconsin | |
| - Appleton, Milwaukee, Madison & Stoughton Market Areas | \$7.00 |
| - Middleton Market Area | 7.00 |
| - Fitchburg Central, Monona, Sun Prairie, Cottage Grove, McFarland, Merrimac, Oregon, Portage, Sauk City, Baraboo, DeForest/Windsor, Witwen, Stevens Point, Wausau, Neenah, Kaukauna, Little Chute, Sheboygan Falls, Lodi, New Berlin, Brookfield, Muskego, Watertown, Waukesha, Newtonburg, Twin Lakes, West Bend, Newburg, & Marshfield Market Areas | No Charge |
| State of Illinois | 7.50 |
| State of Michigan | 7.50 |
| State of Minnesota | 7.50 |
| State of North Dakota | 7.50 |
| State of New Hampshire | 9.20 |
| State of Idaho | No Charge |
| State of Washington | No Charge |

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ACCESS SERVICE

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15. Rates and Charges – TDS Metrocom (Continued)

15.2 End User Access Service (Continued)

(A) The rates for End User Common Line are: (Continued)

| | <u>Rate Per Month</u> |
|--|-----------------------|
| (5) ISDN BRI | |
| - Per facility | |
| State of Wisconsin | |
| - Appleton, Milwaukee, Madison & Stoughton Market Areas | \$7.00 |
| - Middleton Market Area | 7.00 |
| - Fitchburg Central, Monona, Sun Prairie, Cottage Grove, McFarland, Merrimac, Oregon, Portage, Sauk City, Baraboo, DeForest/Windsor, Witwen, Stevens Point, Wausau, Neenah, Kaukauna, Little Chute, Sheboygan Falls, Lodi, New Berlin, Brookfield, Muskego, Watertown, Waukesha, Newtonburg, Twin Lakes, West Bend, Newburg, & Marshfield Market Areas | No Charge |
| State of Illinois | 7.00 |
| State of Michigan | 7.00 |
| State of Minnesota | 7.00 |
| State of North Dakota | 7.00 |
| State of Idaho | No Charge |
| State of Washington | No Charge |

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ACCESS SERVICE

APPROVED

15. Rates and Charges – TDS Metrocom (Continued)

15.2 End User Access Service (Continued)

(A) The rates for End User Common Line are: (Continued)

| | <u>Rate Per Month</u> | |
|--|-----------------------|-----|
| (6) ISDN PRI, DS1 | | |
| - Per Facility | | |
| State of Wisconsin | | |
| - Appleton, Milwaukee, Madison & Stoughton Market Areas | \$27.30 | |
| - Fitchburg Central, Monona, Sun Prairie, Cottage Grove, McFarland, Merrimac, Oregon, Portage, Sauk City, Baraboo, DeForest/Windsor, Witwen, Stevens Point, Wausau, Neenah, Kaukauna, Little Chute, Sheboygan Falls, Lodi, New Berlin, Brookfield, Muskego, Watertown, Waukesha, Newtonburg, Twin Lakes, West Bend, Newburg, & Marshfield Market Areas | No Charge | (T) |
| - Middleton Market | 16.50 | (T) |
| State of Illinois | 26.50 | |
| State of Michigan | 30.75 | |
| State of Minnesota | 32.25 | |
| State of North Dakota | 44.75 | |
| State of Idaho | No Charge | |
| State of Washington | No Charge | |

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.3 Switched Access Service

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ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service15.3.2 Recurring Charges

| <u>(A) Switched Access Service Charge, Per Access Minute</u> | <u>Rate</u> | |
|--|-------------|-----|
| End User Access | | |
| - Illinois | | |
| - Rockford Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| - Transport | \$0.000108 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000108 | |
| - Libertyville Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| - Transport | \$0.000206 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000206 | |

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> | |
|---|-------------|-----|
| (A) <u>Switched Access Service Charge</u> <u>Per Access Minute</u> (Continued) | | |
| End User Access (Continued) | | |
| - Michigan | | |
| - Ann Arbor Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| - Transport | \$0.000129 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000130 | |
| - Grand Rapids Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| - Transport | \$0.000104 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000104 | |
| - Lansing Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| - Transport | \$0.000087 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000086 | |

ACCESS SERVICE

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15. Rates and Charges – TDS Metrocom (Continued)

15.3 Switched Access Service (Continued)

15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> |
|---|-------------|
| (A) <u>Switched Access Service Charge</u> <u>Per Access Minute</u> (Continued) | |
| End User Access (Continued) | |
| - Wisconsin | |
| - Appleton, DePere, Green Bay, Hortonville, Kaukauna, Little Chute, Neenah, & Oshkosh Markets | |
| Originating, per MOU (Non-Toll Free) | |
| - End Office | \$0.000000 |
| - Transport | \$0.000000 |
| (Toll Free) | |
| - End Office | \$0.000000 |
| Terminating, per MOU | |
| - End Office | \$0.000000 |
| - Transport | \$0.000000 |
| - Fond du Lac, Manitowoc, New Berlin, Brookfield, Milwaukee, Muskego, Watertown, Waukesha, Sheboygan, Sheboygan Falls, Fort Atkinson, Jefferson, Whitewater, & Genoa City Markets | |
| Originating, per MOU (Non-Toll Free) | |
| - End Office | \$0.000000 |
| - Transport | \$0.000100 |
| (Toll Free) | |
| - End Office | \$0.000000 |
| Terminating, per MOU | |
| - End Office | \$0.000000 |
| - Transport | \$0.000100 |
| - Evansville, Fitchburg Central, Janesville, Madison, & Monona Markets | |
| Originating, per MOU (Non-Toll Free) | |
| - End Office | \$0.000000 |
| - Transport | \$0.000072 |
| (Toll Free) | |
| - End Office | \$0.000000 |
| Terminating, per MOU | |
| - End Office | \$0.000000 |
| - Transport | \$0.000075 |

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ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> | |
|--|-------------|-----|
| (A) <u>Switched Access Service Charge</u> <u>Per Access Minute</u> (Continued) | | |
| End User Access (Continued) | | |
| - Wisconsin (Continued) | | |
| - Middleton Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.002784 | |
| - Transport | \$0.000537 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000537 | |
| - Cottage Grove, Dodgeville, Lodi, McFarland, Merrimac, Mineral Point, Oregon, Portage, Sauk City, Sun Prairie, Witwen, & Wausau Markets | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.003228 | |
| - Transport | \$0.000003 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000003 | |

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)(A) Switched Access Service Charge,
Per Access Minute (Continued)Rate

End User Access (Continued)

- Wisconsin (Continued)

- Baraboo & DeForest/Windsor, Milton, Sparta & Tomah Markets

Originating, per MOU
(Non-Toll Free)

- End Office \$0.007008

- Transport \$0.000023

(Toll Free)

- End Office \$0.000000 (R)

Terminating, Per MOU

- End Office \$0.000000

- Transport \$0.000023

- Stevens Point Market

Originating, per MOU
(Non-Toll Free)

- End Office \$0.000000 (R)

- Transport \$0.000000

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000000

- Stoughton Market

Originating, per MOU
(Non-Toll Free)

- End Office \$0.000000 (R)

- Transport \$0.000090

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000090

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> | |
|--|-------------|-----|
| (A) <u>Switched Access Service Charge, Per Access Minute</u> (Continued) | | |
| End User Access (Continued) | | |
| - Wisconsin (Continued) | | |
| - Bangor, LaCrosse, & West Salem Markets | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.005111 | |
| - Transport | \$0.000192 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, Per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000192 | |
| - Chippewa Falls, Eau Claire, Hudson, Menomonie, & River Falls Markets | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| - Transport | \$0.000116 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000116 | |
| - Denmark Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.005111 | |
| - Transport | \$0.000000 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000000 | |

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)(A) Switched Access Service Charge,
Per Access Minute (Continued)Rate

End User Access (Continued)

- Wisconsin (Continued)

- Larsen Market

Originating, per MOU
(Non-Toll Free)

- End Office \$0.002223

- Transport \$0.000000

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000000

- Mill Center, Oneida, & Pulaski Markets

Originating, per MOU
(Non-Toll Free)

- End Office \$0.014578

- Transport \$0.000000

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000000

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> | |
|--|-------------|-----|
| (A) <u>Switched Access Service Charge, Per Access Minute</u> (Continued) | | |
| End User Access (Continued) | | |
| - Wisconsin (Continued) | | |
| - Plymouth Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.003228 | (I) |
| - Transport | \$0.000000 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, Per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000000 | |
| - Newtonburg Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.038875 | |
| - Transport | \$0.002582 | (R) |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.002582 | (R) |
| - Twin Lakes Market | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.003228 | |
| - Transport | \$0.000007 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000007 | |

ACCESS SERVICE

APPROVED

15. Rates and Charges – TDS Metrocom (Continued)

15.3 Switched Access Service (Continued)

15.3.2 Recurring Charges (Continued)

(A) Switched Access Service Charge,
Per Access Minute (Continued)

Rate

End User Access (Continued)

- Wisconsin (Continued)

- West Bend & Newburg Markets

Originating, per MOU
(Non-Toll Free)

- End Office \$0.001744

- Transport \$0.000100

(Toll Free)

- End Office \$0.000000

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000100

- Marshfield Market

Originating, per MOU
(Non-Toll Free)

- End Office \$0.003228

- Transport \$0.000003

(Toll Free)

- End Office \$0.000000

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000003

(N)

(N)

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> | |
|--|-------------|-----|
| (A) <u>Switched Access Service Charge, Per Access Minute</u> (Continued) | | |
| End User Access (Continued) | | |
| - Minnesota & North Dakota | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.002721 | |
| - Transport | \$0.001145 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000697 | |
| - New Hampshire | | |
| Originating, per MOU (Non-Toll Free) | | |
| - End Office | \$0.003860 | |
| - Transport | \$0.000025 | |
| (Toll Free) | | |
| - End Office | \$0.000000 | (R) |
| Terminating, per MOU | | |
| - End Office | \$0.000000 | |
| - Transport | \$0.000026 | |

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)(A) Switched Access Service Charge,
Per Access Minute (Continued)Rate

End User Access (Continued)

- Idaho

- Boise, Burley, Caldwell, Meridian, Nampa, Rupert, & Twin Falls
MarketsOriginating, per MOU
(Non-Toll Free)

- End Office \$0.002722

- Transport \$0.000510

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000510

- Coeur D'Alene, Hayden Lake, Post Falls, & Rathdrum Markets

Originating, per MOU
(Non-Toll Free)

- End Office \$0.002020

- Transport \$0.000002

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000002

- Washington

Originating, per MOU
(Non-Toll Free)

- End Office \$0.002722

- Transport \$0.000330

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000330

ACCESS SERVICE**APPROVED**15. Rates and Charges – TDS Metrocom (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)(A) Switched Access Service Charge,
Per Access Minute (Continued)Rate

End User Access (Continued)

- North Carolina

- Mooresville Market

Originating, per MOU
(Non-Toll Free)

- End Office \$0.004042

- Transport \$0.004942

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.004942

- Troutman Market

Originating, per MOU
(Non-Toll Free)

- End Office \$0.000000 (R)

- Transport \$0.000000

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000908

- Montana

Originating, per MOU
(Non-Toll Free)

- End Office \$0.002722

- Transport \$0.000390

(Toll Free)

- End Office \$0.000000 (R)

Terminating, per MOU

- End Office \$0.000000

- Transport \$0.000390

ACCESS SERVICE

APPROVED

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.3 Switched Access Service (Continued)

15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> |
|--|-------------|
| (A) <u>Switched Access Service Charge, Per Access Minute</u> (Continued) | |
| End User Access (Continued) | |
| - Illinois, Michigan, Wisconsin, Minnesota, North Dakota, New Hampshire, Idaho, & Washington | |
| - Joint Tandem Switched Transport** Per Originating Toll Free Only Access Minute, Per Tandem | \$0.001000* |
| (B) <u>Toll Free Data Base Access Service Queries, Per Query</u> | |
| - Illinois | \$0.000200 |
| - Michigan | \$0.000200 |
| - Wisconsin | |
| - All Markets | \$0.000200 |

(T)
(D)

** The Joint Tandem Switched Transport rate element applies per tandem to originating toll free minutes only in lieu of the End User Transport rate element as of July 1, 2021.

(D)

ACCESS SERVICE**APPROVED**15. **RATES AND CHARGES – TDS METROCOM** (Continued)15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

| | <u>Rate</u> | |
|--|-------------|-----|
| (B) <u>Toll Free Data Base Access Service Queries, Per Query</u> (Continued) | | |
| - Minnesota & North Dakota | \$0.000200 | (R) |
| - New Hampshire | \$0.000200 | (R) |
| - Washington | \$0.000200 | (R) |
| - Idaho | | |
| – Boise, Burley, Caldwell, Meridian, Nampa, Rupert, & Twin Falls Markets | \$0.000200 | (R) |
| – Coeur D’Alene, Hayden Lake, Post Falls & Rathdrum Markets | \$0.000200 | (R) |
| - Montana | \$0.000200 | (R) |
| - North Carolina | | |
| - Mooresville Market | \$0.000200 | (R) |
| - Troutman Market | \$0.000200 | (R) |

ACCESS SERVICE

APPROVED

(M)

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.3 Switched Access Service (Continued)

15.3.2 Recurring Charges (Continued)

(C) Intermediate Transport Access Service

| | <u>Monthly Rate</u> | <u>Non-Recurring Charge</u> |
|--|-------------------------|---------------------------------|
| Wisconsin – All Markets Except Middleton Michigan Illinois | | |

Entrance Facility

Per Termination

| | | |
|---------------------|------------|----------|
| - High Capacity DS1 | | |
| Month-to-Month | \$158.00 | \$181.00 |
| 12 Months | \$125.00 | |
| 36+ Months | \$58.00 | |
| - High Capacity DS3 | | |
| Month-to-Month | \$1,260.00 | \$499.00 |
| 12 Months | \$643.50 | |
| 36+ Months | \$585.00 | |

Direct Trunked Transport

Direct Trunked Facility

Per Mile

| | | |
|---------------------|---------|--|
| - High Capacity DS1 | | |
| Month-to-Month | \$14.15 | |
| 12 Months | \$5.90 | |
| 36+ Months | \$4.80 | |
| - High Capacity DS3 | | |
| Month-to-Month | \$57.30 | |
| 12 Months | \$21.60 | |
| 36+ Months | \$18.00 | |

Direct Trunked Termination

Per Termination

| | | |
|---------------------|----------|--|
| - High Capacity DS1 | | |
| Month-to-Month | \$33.42 | |
| 12 Months | \$14.00 | |
| 36+ Months | \$11.80 | |
| - High Capacity DS3 | | |
| Month-to-Month | \$351.00 | |
| 12 Months | \$132.84 | |
| 36+ Months | \$110.70 | |

| | |
|---|----------|
| Installation Charge, per 24 trunks, per order | \$249.00 |
|---|----------|

(M)

(M)-Material previously appeared on Page 15-7.1 of this Section.

APPROVED

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.3 Switched Access Service (Continued)

15.3.2 Recurring Charges (Continued)

(C) Intermediate Transport Access Service

Wisconsin – All Markets Except Middleton

Multiplexing

Per Arrangement
- DS3 to DS1

| <u>Monthly Rate</u> | <u>Non-Recurring Charge</u> |
|---------------------|-----------------------------|
| \$515.00 | |

Tandem Switched Transport

Tandem Switched Facility

Per Access Minute Per Mile

\$0.000013

(M)

(M)

(M)-Material previously appeared on Page 15-7.2 of this Section.

ACCESS SERVICE15. **RATES AND CHARGES – TDS METROCOM** (Continued)**APPROVED**15.3 Switched Access Service (Continued)15.3.2 Recurring Charges (Continued)

(C) Intermediate Transport Access Service (Continued)

| | <u>Monthly Rate</u> | <u>Non-Recurring Charge</u> | |
|---|-------------------------|---------------------------------|-----|
| Wisconsin – Middleton | | | |
| <u>Entrance Facility</u> | | | |
| Per Termination | | | |
| - High Capacity DS1 | \$38.10 | \$181.00 | (N) |
| - High Capacity DS3 | \$347.89 | \$499.00 | (N) |
| <u>Direct Trunked Transport</u> | | | |
| <u>Direct Trunked Facility</u> | | | |
| Per Mile | | | |
| - High Capacity DS1 | \$2.61 | | |
| - High Capacity DS3 | \$22.74 | | |
| <u>Direct Trunked Termination</u> | | | |
| Per Termination | | | |
| - High Capacity DS1 | \$13.54 | | |
| - High Capacity DS3 | \$86.97 | | |
| Installation Charge, per 24 trunks, per Order | | \$249.00 | (N) |
| <u>Multiplexing</u> | | | |
| Per Arrangement | | | |
| - DS3 to DS1 | \$79.35 | | |
| <u>Tandem Switched Transport</u> | | | |
| <u>Tandem Switched Facility</u> | | \$0.000080 | |
| Per Access Minute Per Mile | | | |

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ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.3 Switched Access Service (Continued)

15.3.2 Recurring Charges (Continued)

(C) Intermediate Transport Access Service (Continued)

| Minnesota | <u>Monthly Rate</u> | <u>Non-Recurring Charge</u> | (N) |
|---|-------------------------|---------------------------------|-----|
| <u>Entrance Facility</u> | | | |
| Per Termination | | | |
| - High Capacity DS1 | | | |
| Month-to-Month | \$84.80 | \$181.00 | |
| 36 Months | \$77.43 | | |
| 60 Months | \$67.83 | | |
| - High Capacity DS3 | N/A | | |
| <u>Direct Trunked Transport</u> | | | |
| <u>Direct Trunked Facility</u> | | | |
| Per Mile | | | |
| - High Capacity DS1 | | | |
| Month-to-Month | \$6.85 | | |
| 36 Months | \$6.17 | | |
| 60 Months | \$5.48 | | |
| - High Capacity DS3 | N/A | | |
| <u>Direct Trunked Termination</u> | | | |
| Per Termination | | | |
| - High Capacity DS1 | | | |
| Month-to-Month | \$45.27 | | |
| 36 Months | \$40.75 | | |
| 60 Months | \$36.23 | | |
| - High Capacity DS3 | N/A | | |
| Installation Charge, per 24 trunks, per Order | | \$249.00 | (N) |

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.4 Special Access Service

Per FCC Order 17-43, Special Access Services have been de-tariffed, effective August 1, 2020. These services can now be found within the Company's online Special Access Services Catalog, located at: www.tdstelecom.com/tariffs/.

(N)
|
(N)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)



15.5 Other Services (Continued)

15.5.1 Access Ordering

| | <u>Charge</u> | |
|--|---------------|-----|
| (A) <u>Access Order Charge</u> | | |
| Per Order, Type 1 | \$81.00 | |
| Per Order, Type 2 – All Markets except MN & ND | \$89.00 | (T) |
| Per Order, Type 3 – All Markets except MN & ND | \$100.00 | (T) |
| (B) <u>Service Date Change Charge</u> ¹ | | |
| A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 15.5.1(A) preceding does not apply. The applicable charge is: | | |
| Per Order, Type 1 | \$34.00 | |
| Per Order, Type 2 – All Markets except MN & ND | \$34.00 | (T) |
| Per Order, Type 3 – All Markets except MN & ND | \$100.00 | (T) |
| (C) <u>Design Change Charge</u> | | |
| The Design Change Charge will apply on a per order per occurrence basis, for each order requiring design change. | | |
| Per Order, Type 1 – MN & ND Markets | \$34.00 | (M) |
| Per Order, Type 1 – All Markets except MN & ND | \$60.00 | (T) |
| Per Order, Type 2 – All Markets except MN & ND | \$60.00 | (T) |
| Per Order, Type 3 – All Markets except MN & ND | \$100.00 | (T) |
| (D) <u>Miscellaneous Service Order Charge</u> | | |
| Per Order, Type 1 | \$34.00 | |
| Per Order, Type 2 – All Markets except MN & ND | \$34.00 | (T) |
| Per Order, Type 3 – All Markets except MN & ND | \$100.00 | (T) |

¹ If the requested service date change is more than 30 days from the original service date or installation date, a cancellation charge will apply in addition to the Service Date Change Charge.
 (M)-Material previously appeared on Page 15-77 of this Tariff.

ACCESS SERVICE



15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.5 Other Services (Continued)

15.5.1 Access Ordering

Charge

(E) Expedite Service Order Charge (T)

The Expedite Service Order Charge will apply in addition to the Access Order Charge on a per order basis for each order requesting an expedited service date.

| | |
|-------------------|------------|
| Per Order, Type 1 | \$50.00 |
| Per Order, Type 2 | \$200.00 |
| Per Order, Type 3 | \$1,000.00 |

(F) Cancellation Charge (T)

| | |
|-------------------|------------|
| Per Order, Type 1 | \$350.00 |
| Per Order, Type 2 | \$500.00 |
| Per Order, Type 3 | \$1,000.00 |

15.5.2 Additional Engineering

Each Half Hour or Fraction Thereof

Additional Engineering
Periods – All Markets except MN & ND

| | | |
|---|----------|-----|
| (A) Basic Time per engineer normally scheduled working hours | \$32.50 | |
| (B) Overtime per engineer outside of normally scheduled working hours | \$50.00* | (T) |
| (C) Premium Time outside of scheduled work day, per engineer | \$75.00* | (T) |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

APPROVED

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.5 Other Services (Continued)

15.5.2 Additional Engineering

| <u>Additional Engineering Periods – MN & ND Markets</u> | <u>Each Half Hour or Fraction Thereof</u> | |
|---|---|-----|
| (A) Basic Time per engineer normally scheduled working hours | \$17.19 | |
| (B) Overtime per engineer outside of normally scheduled working hours | \$25.78* | (T) |
| (C) Premium Time outside of scheduled work day, per engineer | \$34.38* | (T) |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

APPROVED

15.5 Other Services (Continued)

15.5.3 Additional Labor

| Additional Labor | Each Half | |
|--|----------------|-----|
| <u>Periods</u> – All Markets except MN & ND | Hour or | |
| | Fraction | (T) |
| | <u>Thereof</u> | (T) |
| (A) Installation or Repair | | |
| - Overtime, outside of normally scheduled working hours on a scheduled work day, per technician | \$35.00* | |
| - Premium Time, outside of scheduled work day, per technician | \$45.00* | |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ACCESS SERVICE

15. Rates and Charges – TDS Metrocom (Cont'd)



15.5 Other Services (Cont'd)

15.5.3 Additional Labor (Cont'd)

Additional Labor Periods –
 All Markets except MN & ND

Each Half Hour or Fraction Thereof

Installation
and Repair
Technician

Central Office
Maintenance
Technician

(T)

(C) Testing and Maintenance with
other Telephone Companies, or
Other Labor

| | | |
|---|----------|----------|
| - Basic Time per technician normally scheduled working hours | \$32.50 | \$32.50 |
| - Overtime per technician outside of normally scheduled working hours on a scheduled work day | \$35.00* | \$50.00* |
| - Premium Time per technician outside of scheduled work day | \$45.00* | \$75.00* |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

APPROVED

15.5 Other Services (Continued)

15.5.3 Additional Labor

| Additional Labor <u>Periods –MN & ND Markets</u> | Each Half Hour or Fraction <u>Thereof</u> |
|--|--|
| (A) Installation or Repair | |
| - Overtime, outside of normally scheduled working hours on a scheduled work day, per technician | \$27.99* |
| - Premium Time, outside of scheduled work day, per technician | \$37.32* |
| (B) Stand by | |
| - Basic time, normally scheduled working hours, per technician | \$18.26 |
| - Overtime, outside of normally scheduled working hours on a scheduled work day, per technician | \$27.38* |
| - Premium Time, outside of scheduled work day, per technician | \$36.51* |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.
(M)-Material previously appeared on Page 15-79 of this Tariff.

(M)

(M)

ACCESS SERVICE

(M)

APPROVED

15. Rates and Charges – TDS Metrocom (Cont'd)

15.5 Other Services (Cont'd)

15.5.3 Additional Labor (Cont'd)

Additional Labor Periods
- MN & ND Markets

Each Half Hour or Fraction Thereof

Installation
and Repair
Technician

Central Office
Maintenance
Technician

(C) Testing and Maintenance with
other Telephone Companies, or
Other Labor

| | | |
|--|----------|----------|
| - Basic Time per technician normally scheduled working hours | \$18.66 | \$17.91 |
| - Overtime per technician outside of normally scheduled working hours on a scheduled work day | \$27.99* | \$26.86* |
| - Premium Time per technician outside of scheduled work day | \$37.32* | \$35.81* |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.
(M)-Material previously appeared on Page 15-80 of this Tariff.

(M)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

APPROVED

15.5 Other Services (Continued)

15.5.4 Miscellaneous Services

(A) Additional Cooperative Acceptance Testing – Switched Access

| <u>Testing Periods</u> | <u>Each Half Hour or Fraction Thereof</u> |
|---|---|
| Basic Time, Overtime* and Premium Time* | See the rates for additional labor as set forth in 15.5.3(C) preceding. |

(B) Additional Automatic Testing – Switched Access – MN & ND Markets Only (T) (M)

| <u>To First Point of Switching</u> | <u>Additional Tests</u> | <u>Per Test Per Transmission Path</u> | (M) |
|------------------------------------|-------------------------|---------------------------------------|-----|
| | Gain-Slope Tests | \$2.89 | (M) |
| | C-Notched Noise Tests | \$2.89 | |
| | 1004 Hz Loss** | \$2.89 | |
| | C-Message Noise** | \$2.89 | |
| | Balance (return loss)** | \$2.89 | |

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.
 (M)-Material previously appeared on Page 15-81 of this Tariff.

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.5 Other Services (Continued)

15.5.4 Miscellaneous Services (Continued)

(C) Additional Manual Testing – Switched Access

To First Point
Of Switching

Additional Tests

Each Half
Hour or
Fraction
Thereof

Any other agreed to
tests, per technician

See the rates
for additional
Labor as set
forth in 15.5.3(C)
preceding

(D)

(D)

ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.5 Other Services (Continued)

15.5.4 Miscellaneous Services (Continued)

(D)
|
(D)

(F) Maintenance of Service

Maintenance of Service
Periods

Each Half
Hour or
Fraction
Thereof

Basic Time, Overtime*
and Premium Time*

See the rates
for Additional
Labor as set
forth in 15.5.3(C)
preceding

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

15. Rates and Charges – TDS Metrocom (Cont'd)



15.5 Other Services (Cont'd)

15.5.4 Miscellaneous Services (Cont'd)

| | <u>Monthly Rate</u> | |
|--|-------------------------|--------------------------------|
| (G) <u>Controller Arrangement</u> | | |
| Per Arrangement | \$100.00 | |
| | | <u>Nonrecurring Charge</u> |
| (H) <u>Presubscription</u> – Not Applicable to MN & ND Markets | | (T) |
| Per Telephone Exchange Service line or trunk* | \$5.00 | |
| (I) <u>Unauthorized PIC Change</u> | | |
| - Residence/Business Per Telephone Exchange Service line or trunk | \$35.65 | |
| - Public and/or Semi- public pay telephone Per Telephone Exchange Service line or trunk | \$57.57 | |

* This charge is generally billed to the end user who is the subscriber to the Telephone Exchange Service. In those instances where the IC both requests the presubscription change, and requests the associated charge be billed to it, the Telephone Company will bill the IC. In the event an end user is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. In the event an end user is incorrectly presubscribed due to misassignment on the part of the IC, and the IC is unable to document such an assignment, the Telephone Company will apply the charge to the IC responsible for the misassignment of the end user and assign the end user to an IC of the end user's choice.

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ACCESS SERVICE

15. **RATES AND CHARGES – TDS METROCOM** (Continued)

APPROVED

(M)

15.5 Other Services (Cont'd)

15.5.4 Miscellaneous Services (Cont'd)

(J) Blocking Services – MN & ND Markets Only*

| | Nonrecurring <u>Charge</u> |
|---|-------------------------------|
| - Per exchange service line, or trunk and/or per Feature Group A Switched Access Line | \$11.20 |

* Blocking access to 900 Service is offered to all subscribers at no charge
 (a) from November 1, 1993 through December 31, 1993 and
 (b) at the time telephone service is established at a new number and for 60 days thereafter

(M)-Material previously appeared on Page 15-85 of this Tariff.

(M)

ACCESS SERVICE

15. Rates and Charges – TDS Metrocom (Cont'd)

15.6 Special Construction

15.6.1 Basis for Rate and Charges

Rates and charges are on an individual case basis.

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Effective: June 20, 2003

Vice President - Marketing
TDS METROCOM, LLC
525 Junction Road, Suite 6000
Madison Wisconsin 53717

ACCESS SERVICE



15. Rates and Charges – TDS Metrocom (Cont'd)

15.7 Local Number Portability

| | <u>Rate</u> | |
|--|-------------|-----|
| 15.7.1 <u>Query Service – All Markets except MN & ND</u> | | (T) |
| (A) LNP Query | | |
| Prearranged, per Query | | |
| End office | N/A | |
| (B) Local Number Portability | | |
| Non-Recurring Charge/Per Order | N/A | |
| LNP Billing Charge | N/A | |
| 15.7.2 <u>Query Service – MN & ND Markets</u> | | (M) |
| (A) LNP Query | | |
| Prearranged, per Query | | |
| End office | \$.0032 | |
| (B) Local Number Portability | | |
| Non-Recurring Charge/Per Order | \$40.00 | |
| LNP Billing Charge | \$274.00 | (M) |

(M)-Material previously appeared on Page 15-87 of this Tariff.

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15. **RATES AND CHARGES – TDS METROCOM** (Continued)

15.8 Telecommunications Service Priority

| | | Non-Recurring <u>Rate</u> |
|--------|---|------------------------------|
| 15.8.1 | Priority Installation or Restoration Activation | |
| | (A) Prime Service Vendor (Type 1 or 2 Service) | \$136.00 |
| | (B) Prime Service Vendor (Type 3 Service) | \$136.00 |
| | | Monthly <u>Rate</u> |
| 15.8.2 | Priority Restoration Maintenance and Administration | |
| | (A) Prime Service Vendor (Type 1 or 2 Service) | \$3.00 |
| | (B) Prime Service Vendor (Type 3 Service) | \$3.00 |

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