

INTRASTATE ACCESS SERVICE

ADOPTION NOTICE

Effective November 11, 2015, Windstream Missouri, Inc. registered its intent to use the name Windstream Missouri, LLC with the Missouri Secretary of State. Effective April 25, 2006, Alltel Missouri, Inc. registered its intent to use the name Windstream Missouri, Inc. with the Missouri Secretary of State.

(T)

Windstream Missouri, LLC hereby adopts, ratifies, and makes its own, in every respect as the same has been filed by Windstream Missouri, Inc. and Alltel Missouri, Inc., all schedules, rules, notices, concurrences, schedule agreements, divisions, authorities and/or other instruments whatsoever, filed and in effect with the Public Service Commission of the State of Missouri, by Windstream Missouri, Inc., and Alltel Missouri, Inc., prior to the effective date of this tariff.

By this notice, Windstream Missouri, LLC also adopts and ratifies all supplements or amendments to any of the above schedules, etc., which Windstream Missouri, Inc., and Alltel Missouri, Inc. has heretofore filed with said Commission.

(T)

ISSUED: December 3, 2016

EFFECTIVE: January 2, 2016

Vice President – Regulatory Strategy
4001 Rodney Parham Road
Little Rock, AR 72212

FILED
Missouri Public
Service Commission
IN-2016-0119; JI-2016-0144

INTRASTATE ACCESS SERVICE

**Regulations, Rates and Charges
applying to the provision of Access Service
for connection to intrastate communications facilities
for intrastate Customers within the
operating territory of**

WINDSTREAM MISSOURI, LLC

(T)

in the State of

MISSOURI

as provided herein.

For the Exchanges:

Listed in 1.4 Following

**Any Questions concerning tariff references,
should be directed to this tariffs
issuing individual at the address
indicated below:**

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TARIFF USERS GUIDE

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General

The tariff user guide is provided to assist users of this tariff in determining regulations, rates and charges applicable to the provision of Intrastate services by ALLTEL MISSOURI issuing carriers.

Any questions concerning tariff references, should be directed to this tariff's issuing officer at the address indicated below.

Mr. Jeff Wiley, Director - Access Tariffs
ALLTEL Telephone Services Corporation
One Allied Drive
Little Rock, AR 72203
501-661-5368

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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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- 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

- AML - Actual Measured Loss
- ANI - Automatic Number Identification
- AP - Program Audio
- AT&T - American Telephone and Telegraph Company
- BNA - Billing Name and Address
- BHMC - Busy Hour Minutes of Capacity
- CCC - Clear Channel Capability
- CCS - Common Channel Signalling
- CDP - Customer Designated Premises
- CI - Channel Interface
- 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 0
- 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

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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
ITP	-	Interstate Telecommunications Service Provider
kbps	-	kilobits per second
Khz	-	kilohertz
LATA	-	Local Access and Transport Area
ma	-	milliamperes
Mbps	-	Megabits per second
mcs	-	Microsecond
MF	-	Multifrequency Address
Mhz	-	Megahertz
MRC	-	Monthly Recurring Charge
MT	-	Metallic
MTS	-	Message Telecommunications Service(s)
MTSO	-	Mobile Telephone Switching Office
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NXX	-	Three-Digit Central Office Prefix
PBX	-	Private Branch Exchange
POT	-	Point of Termination
SAC	-	Service Access Code
SP	-	Signalling Point
SPOI	-	Signalling Point of Interface
SRL	-	Singing Return Loss
SSP	-	Service Switching Point
SS7	-	Signalling System 7
STP	-	Signalling 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)
WSO	-	WATS Serving Office

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REFERENCE TO OTHER TARIFFS

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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

National Exchange Carrier
Association, Inc.
Interstate Access Service
Tariff F.C.C. No. 5

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are reference in this tariff and may be obtain 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 41451 High Capacity Terrestrial Digital Service
Issued: January 1983

PUB 41001 Data Communications Using Voiceband Private Line
Channels
Issued: October 1973

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

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

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

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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

TR-NPL-000336 Metallic and Telegraph Grade Special Access Service -
Transmission Parameter Limits and Interface Combinations
Issued: October 1987

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

TR-NPL-000338 Television Special Access and Local Channel Services -
Transmission Parameter Limits and Interface Combinations
Issued: December 1986

TR-NPL-000341 Digital Data Special Access Service -
Transmission Parameter and Interface Combinations
Issued: March 1989

TR-INS-000342 High Capacity Digital Special Access Service
Issued: February 1992

SR-STS-000307 Issue 3 NC/NCI Code Dictionary
Issued: January 1992

TR-NWT-000506 Issue 3 LATA Switching System Generic Requirements
(LSSGR) Section 6
Issued: September 1991, Revised November 1991

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

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

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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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.

ST-TEC-000053 Issue 1 Telecommunications Transmission Engineering
Volume 3 - Networks and Services (Chapters 6 and 7)
Third Edition
Issued: August 1989

The following technical publication is reference in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Director - Tariff and Regulatory Matters, 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

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1. Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line, End User Access, Switched Access, Special Access, Lifeline Assistance, Universal Service Fund and other miscellaneous services, hereinafter referred to collectively as service(s). 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. Pursuant to the Codified Federal Rules (CFR), Title 47, Sections 69.4(c), 69.5(d), 69.104(1), 69.116, 69.117, 69.603(c) and 69.603(d), regulations concerning administration and billing of Lifeline Assistance and Universal Service Fund, rates and charges for these carrier's carrier elements are contained in Section 8 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF FCC No. 5. The National Exchange Carrier Association, Inc., will bill and collect all Lifeline Assistance and Universal Service Fund Charges on behalf of the Telephone Company.
- 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.
- 1.3 Local Exchange Carriers (LEC's) subject to this tariff are also subjected to terms and conditions of the Conceptual Framework, Missouri Intrastate, IntraLATA Primary Carrier By Toll Center Plan filed in Case No. TO-84-222 et al., as modified and approved by the Missouri Public Service Commission.

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1. Application of Tariff

1.4 Listing of Exchanges by Company
References in 17.1.1 to exchanges of the previously three separate companies are detailed as follows;

(A) ALLTEL MISSOURI, INC.

<u>Exchange Number</u>	<u>Exchange Name</u>
3001	CROCKER
3002	DIXON
3003	FLORENCE
3004	HOLLIDAY
3005	IBERIA
3006	LACLEDE
3007	MADISON
3008	MENDON
3009	MILAN
3010	ROTHVILLE
3011	ST. ELIZABETH
3012	STOVER
3013	SUMNER
3014	VANDALIA
3201	FAIRVIEW
3202	LIBERAL
3203	MINDEN MINES
3204	PURDY
3205	STARK CITY
3206	STOTTS CITY
3207	VERONA
3208	WHEATON
3401	CLUBB
3402	DONIPHAN
3403	FAIRDEALING
3404	GRANDIN
3405	GREENVILLE
3406	MYRTLE
3407	NAYLOR
3408	NEELYVILLE
3409	OXLY
3410	PATTERSON
3411	PIEDMONT
3412	PONDER
3413	SOUTH MYRTLE
3414	WAPPAPELLO PARK
3415	WILLIAMSVILLE
5501	UNIONVILLE
5502	LEMONS

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1. Application of Tariff

1.4 Listing of Exchanges by Company (Con't)

(B) Eastern Missouri Telephone Company

<u>Exchange Number</u>	<u>Exchange Name</u>
2401	SILEX
2402	EOLIA
2403	MARTINSBURG
2404	MIDDLETOWN
2405	OLNEY
2406	NEW HARTFORD
2407	BELLFLOWER

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MISSOURI
Public Service Commission1. Application of Tariff

1.4 Listing of Exchanges by Company (Con't)

(C) Missouri Telephone Company

<u>Exchange Number</u>	<u>Exchange Name</u>
2301	PATTONSBURG
2302	COFFEY
2303	GRANT CITY
2304	UNION STAR
2305	GALLATIN
2306	ALBANY
2307	WINSTON
2308	ALLENDALE
2309	JAMESON
2310	POLK
2311	STOCKTON
2312	BOLIVAR
2314	HALF WAY
2315	PLEASANT HOPE
2316	FAIR PLAY
2317	ALDRICH
2318	MORRISVILLE

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2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this tariff.
- (B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the 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

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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.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(C) Sequence of Provisioning

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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.

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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;

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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.

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MISSOURI
Public Service Commission2. 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.

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2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)MISSOURI
Public Service Commission2.1.4 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. Moves of the Point of Termination at the customer designated premises will be as set forth in 6.4.4 and 7.2.3 following.

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.

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MISSOURI
Public Service Commission2. 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 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 15. 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.

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2. General Regulations (Cont'd)

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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, 2.3.11(E), 2.4.1 or 2.5 following (respectively, Damages, Availability for Testing, Balance, Jurisdictional Report and Certification Requirements, Payment Arrangements, Connections) including any customers 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: (C)

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

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.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

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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.

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2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)MISSOURI
Public Service Commission2.1.8 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) If the National Exchange Carrier Association, Inc., notifies the Telephone Company that the Customer has failed to comply with Lifeline Assistance and Universal Service Fund provisions contained in NECA FCC No. 5, Section 8, including any Customer's failure to make payments on the date and times specified therein, the Telephone Company may, on thirty days' written notice to the Customer by Certified U.S. Mail, take any of the following actions:
- refuse additional applications for service
 - refuse to complete any pending orders for service.
 - discontinue the provision of service to the Customer.

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

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Public Service Commission2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)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 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Access Services, or the Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), the Telephone Company will furnish to the customer six (6) months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s).

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Public Service Commission2. 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.

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Public Service Commission2. 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.

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Public Service Commission2. 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, (Credit Allowances for Service Interruptions) no credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Limitation of Use of Metallic Facilities

Signals applied to a metallic facility shall conform to the limitations set forth in Technical Reference Publication AS No. 1. In the case of application of dc telegraph signaling systems, the customer shall be responsible, at its expense, for the provision of current limiting devices to protect the Telephone Company facilities from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excessive noise.

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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 (Alarm System) type signaling and dc telegraph transmission at speeds of 75 baud or less.

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.

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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 tortuous conduct of the customer, its officers, agents or employees. (T)

(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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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

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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 Report and Certification Requirements

(A) Certification Requirements - Special Access

When the customer orders Special Access Service, and the customer certifies to the Telephone Company in writing that more than ten percent of the traffic is interstate, the service is considered to be interstate.

Following initial certification, should the jurisdictional nature of the customer's Special Access Service change, the customer should inform the Telephone Company in writing of the change. The effective date of the change will be the date the Telephone Company receives the customer's notice of change. No charge applies for the jurisdictional change.

(B) Disputes Involving Jurisdictional Certification - Special Access

If a dispute arises concerning the certification of projected interstate traffic as described in (A) above, the Telephone Company will ask the customer to provide the data the customer used to determine that more than 10% of the traffic is interstate. The customer shall supply the data within thirty (30) days of the Telephone Company request. If the reply results in a jurisdictional change of a Special Access Service, the effective date of the change will be the date the Telephone Company receives the customer's reply. There is no charge when the customer's reply results in a jurisdictional change in the Special Access Service. No changes will be made to existing intrastate percentages until the requested detail has been provided to warrant such change.

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2. General Regulations (Cont'd)

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2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report and Certification Requirements

(C) 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.

- (1) When a customer initially orders Switched Access Service, the customer shall state in its order the Percent Interstate Usage (PIU) on a state wide, LATA or billing account number level (at the option of the customer) on a local exchange company specific basis, separately for each of the following:

(N)

- Feature Group A (FGA)
- Feature Group B (FGB)
- Feature Group D (FGD)
- 500 Service Access
- 700 Service Access
- 800/888 Service Access
- 900 Service Access

Additionally, upon employing the 700 Service Access Code over Feature Group D Switched Access Services, the customer must provide the Company the PIU for the 700 calls. A PIU of less than one-hundred percent is not allowed in those LATA's where the service is not available as an intrastate access service. The customer shall report the PIU on a statewide, LATA or billing account number level (at the option of the customer) on a local exchange company.

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Information previously found on this page now found on Page 23.1

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

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2.3.11 Jurisdictional Report and Certification Requirements

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

Pursuant to Federal Communications Commission Order FCC 85-145 released April 16, 1985, interstate usage is to be developed as though every call that enters a customer network at a point within the same state as that in which the called station (as designated by the called station number) is situated, is an intrastate communication and every call for which the point of entry is in a state other than that where the called station (as designated by the called number) is situated is an interstate communication.

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Determination of the jurisdictional basis of the usage will be based on the following requirements:

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- (a) Sixty-six and six tenths percent (66.6%) of all usage which originates on the customer's network in the Missouri portion of the Kansas City Standard Metropolitan Statistical Area (SMSA) and terminates at a telephone number in Missouri will be reported as intrastate.
- (b) Seventy-five and nine tenths percent (75.9%) of all usage which originates on the customer's network in the Missouri portion of the St. Louis Standard Metropolitan Statistical Area (SMSA) and terminates at a telephone number in Missouri will be reported as intrastate.
- (c) One hundred percent (100%) of all other usage which originates on the customer's network in Missouri and terminates at a telephone number in Missouri will be reported as intrastate.
- (d) If a customer establishes a point of inter-connection between its facilities and those of a local exchange telephone company in a state which adjoins Missouri and to which Missouri customer may gain access on a toll free basis, the usage which gains access at such points of interconnection and terminate

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(M) Information found on this page previously found on Page 23 and Page 24 24 1997

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

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2.3.11 Jurisdictional Report and Certification Requirements

MO. PUBLIC SERVICE COMM.

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

at a Missouri telephone number shall be reported as intrastate messages. Such traffic from the Kansas City and St. Louis SMSAs shall be apportioned in accordance with paragraphs a. and b. Above.

(M)

(e) All usage which originates on the customer's network in the Missouri portion of a LATA and terminates at a telephone number in the same LATA in Missouri will be reported as intrastate intraLATA. Usage terminating at a telephone number in a different LATA in Missouri will be reported as intrastate interLATA. Wire centers and their corresponding LATA's may be found in EXCHANGE CARRIER ASSOCIATION TARIFF - WIRE CENTER & INTERCONNECTION INFORMATION.

(f) All intrastate usage will be reported as such whether or not the customer has the proper state certification or an effective intrastate tariff.

(2) The customer shall furnish to the Company annually a report of the actual PIU on a statewide, LATA or billing account number level (at the option of the customer) on a local exchange company specific basis, separately for each of the services listed below. The customer, at its own option, may report revised PIU's more frequently if a change warrants an update before the annual period. These updates should be made to the Telephone Company on the first day of the next available quarter (January, July or October). The annual report of revised PIU's should be received by the first of March of each year. The report should show revised interstate and intrastate percentage of use for the past calendar year period, for each interstate service. The revised percentage will be implemented July 1, and will serve as the interstate percentage for the next twelve months billing. If the customer does not

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(M) Information found on this page previously found on Page 24

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2. General Regulations (Cont'd)

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2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report and Certification Requirements (Cont'd) MO. PUBLIC SERVICE COMMISSION

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

single lines or trunks as well. If the customer adds or discontinues some but not all of the Feature Group A and/or Feature Group B Switched Access Services in a group, it shall provide a revised projected interstate percentage for the overall services provided. The revised report will serve as the basis for future billing and will be effective on the next bill date.

(N)

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

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

(4) When a customer orders Feature Group C or Feature Group D Switched Access Service(s) the customer may provide the projected interstate usage for each end office in its order. The Telephone Company, where the jurisdiction can be determined from the call detail, will determine the projected interstate percentage as follows:

- For originating access minutes, the projected interstate percentage will be developed on a monthly basis by end office for Feature Group C or Feature Group D Switched Access Service, by dividing the measured interstate originating access minutes (the access minutes where the calling number is in one state and the called number is in another state) by the total interstate originating access minutes for that office.

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2. General Regulations (Cont'd)

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2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report and Certification Requirements (Cont'd) **MISSOURI PUBLIC SERVICE COMMISSION**

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

another state) by the total originating access minutes, when the call detail is adequate to determine the appropriate jurisdiction.

(N)

The Telephone Company, where the jurisdiction can not be determined from the call detail, will determine the projected interstate percentage as follows:

- When originating call details are insufficient to determine the jurisdiction for the call (e.g. 800/888 Access Service), the customer must supply the projected interstate percentage.
- For terminating access minutes, the customer may supply the interstate percentage or the customer may allow the originating access minute percentage as listed above to be used to develop the projected interstate percentage for such terminating access minutes. Customers choosing not to supply a PIU for terminating Feature Group C or D switched access service may continue to allow the Company to develop this PIU based upon the percentage for originating access minutes. This percentage shall be used by the Company as the interstate percentage for such call detail.

When a customer employs the use of 700 or 900 Service Access Codes over Feature Group D switched access, the customer must provide the Company with the projected percentage of interstate use for the 700 or 900 calls made. The remaining percentage will be assumed intrastate percentage.

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2. General Regulations (Cont'd)

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2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report and Certification Requirements (Cont'd)

MO. PUBLIC SERVICE COMMISSION

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

(5) The reports required in (2) above should be based on actual total customer usage data if at all feasible. If that data is not reasonably available, the reports may be based on either statistically valid samples derived by the customer, or on samples from sampling techniques agreed to by the Telephone Company. The allowable statistical parameters associated with the percentages produced from statistical sampling are a 95 percent confidence level and a +/- five percent precision. (T)

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DEC 24 1997

Information previously found on this page now found on Page 23.3

Issued: November 24, 1997

Effective December 24, 1997 MISSOURI PUBLIC SERVICE COMMISSION

One Allied Drive
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ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Report Requirements (Cont'd)(C) Jurisdictional Reports - Switched Access (Cont'd)

- (6) Where a customer has previously obtained interstate service and subsequently applies for mixed interstate and intrastate service, the customer must, at the time the order is placed for mixed interstate and intrastate service, provide an interim jurisdictional report for the previous three months usage that complies with the requirements of paragraphs (1), (3) and (4) above.
- (7) The Telephone Company retains the right to employ monitoring equipment for the purpose of verification of IXC PIU reporting. The Telephone Company shall treat such information as proprietary in nature and shall maintain its confidentiality.

The PIUs described in this section are applied to associated usage rated elements and services, e.g., Information Surcharge, Local Switching, Tandem Switched Transport, Tandem Switching and Transport Interconnection charges. The PIUs are also used to develop the carrier charges. Separate PIUs are required for flat rated Entrance Facilities, Direct Trunked Transport and Multitplexers.

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- (1) There may be some portion of terminating minutes where it is not possible to know and therefore to send, the needed originating number information. A "floor" of 7.00 percent (%) will be set for terminating minutes lacking originating numbers for all switched access customers.
- (a) When the percentage of terminating traffic without sufficient call detail to determine jurisdiction does not exceed the sum of the floor plus a 2.00 percent (%) grace threshold or 9.00 percent (%), the Telephone Company will apply the PIU factor, either provided by the customer or as set forth in this section.

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Information previously found on this page now found on Page 26.1.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Report Requirements (Cont'd)(C) Jurisdictional Reports - Switched Access (Cont'd)

(b) When the percentage is greater than 9.00 percent (%), the Telephone Company will assess rates from this tariff on all minutes exceeding the floor. For example, if 30 percent (%) of a customer's terminating minutes sent to the Telephone Company do not contain sufficient originating information to allow the Telephone Company to determine the originating location, then the Telephone Company would apply the provisions of this tariff to those minutes exceeding the floor, or 23 percent (%) in this example.

(N)

In the event that the Telephone Company applies rates to terminating calls without originating number information as provided in this tariff, customers will have the opportunity to request backup documentation of the Telephone Company's basis for such application, and further request that the Telephone Company change the application of the intrastate access rate upon a showing by the customer of why the intrastate rate should not be applied.

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(D) Maintenance of Customer Records

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The customer shall maintain and retain for a minimum of one year, complete, detailed and accurate records, workpapers and backup documentation in form and substance to evidence the percentage data provided to the Telephone Company as set forth in (C) proceeding. All of the records, workpapers and backup documentation, including the sampling techniques and traffic data underlying samples, if used, shall be made available during normal business hours, at a location named in the report, upon reasonable request by the Telephone Company in order to permit a review by a Telephone Company auditor, an outside auditor under of a federal or state regulatory commission. The Telephone Company may in its discretion accept the results of a third-party audit submitted by the IXC in lieu of performing its own audit.

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(M) Information found on this page previously found on Page 26.

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Public Service Commission

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Report and Certification Requirements (Cont'd)(E) Billing Disputes Involving Jurisdictional Reports - Switched Access

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

2.3.12 Determination of Intrastate 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 intrastate is applied in the following manner:

(A) Monthly and Nonrecurring Charges

For monthly and nonrecurring chargeable rate elements, multiply the percent intrastate 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 intrastate use times actual use (i.e., measured or Telephone Company assumed average use) times the stated tariff rate.

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

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MO. PUBLIC SERVICE COMMISSION

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.13 Identification and Rating of VoIP-PSTN Traffic

(A) Scope

(1) VoIP-PSTN traffic is defined as traffic exchanged over the public switched telephone network ("PSTN") facilities that originates and/or terminates in Internet protocol ("IP") format. This section governs the identification of toll VoIP-PSTN ("toll VoIP") traffic that in the absence of an interconnection agreement will be subject to interstate switched access rates in accordance with the Federal Communications Commission Report and Order in WC Docket Nos. 10-90, etc., FCC No. 11-161 released (Nov. 18, 2011) ("FCC Order") as it may hereinafter be amended or clarified. Specifically, this section establishes the method of distinguishing toll VoIP traffic from the customer's total intrastate access traffic, so that toll VoIP traffic will be billed in accordance with the FCC Order.

(2) This section will be applied to the billing of switched access charges to a customer that is a local exchange carrier only to the extent that the customer has also implemented billing of interstate access charges for VoIP-PSTN Traffic in accordance with the FCC Order.

(B) Rating of toll VoIP-PSTN traffic

The Telephone Company will bill toll VoIP-PSTN traffic which it identifies in accordance with this tariff section at rates equal to the Telephone Company's applicable tariffed interstate switched access rates. For ease of reference, the applicable interstate rates are listed in Section 17.2.5.

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

The Telephone Company will determine the number of toll VoIP traffic minutes of use ("MOU") to which it will apply its interstate rates under subsection (B), above, by applying an originating Percent VoIP Usage ("OPVU") factor to the total intrastate access MOU originated by a Telephone Company end user and delivered to the customer and by applying a terminating PVU ("TPVU") factor to the total intrastate access MOU terminated by a customer to the Telephone Company's end user. The OPVU and TPVU will be derived and applied as follows:

(1) The Telephone Company will calculate and implement an OPVU factor representing a whole number percentage based on total traffic originated by Telephone Company end users in IP format and delivered to the customer in the State divided by the Telephone Company's total originated intrastate access MOU delivered to the customer in the State.

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)(C) Calculation and Application of Percent-VoIP-Usage Factor
(Cont'd)

- (2) The customer will calculate and furnish to the Telephone Company a TPVU factor, along with supporting documentation, representing the whole number percentage of the customer's total terminating intrastate access MOU that the customer exchanges with the Telephone Company in the State that is sent to the Telephone Company and originated in IP format.
- (3) The TPVU and supporting documentation shall be based on information that is verifiable by the Telephone Company including but not limited to the number of the customer's retail VoIP subscriptions in the state (e.g., as reported on FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information. The customer shall not modify its reported PIU factor to account for VoIP-PSTN traffic.
- (4) After the Telephone Company verifies the TPVU provided by the customer the Telephone Company will apply the TPVU factor as well as the OPVU developed by the Telephone Company to the respective terminating and originating intrastate access MOU as indicated in Sections (D) and/or (E) below.

In the event that the Telephone Company can not verify the customer's TPVU, the Telephone Company will request additional information to support the TPVU, during this time no changes will be made to the existing TPVU. The customer shall supply the requested additional information within 15 days of the Telephone Company's request or no changes will be made to the existing TPVU. If after review of the additional information, the customer and Telephone Company establish a revised and mutually agreed upon TPVU factor, the Telephone Company will begin using the new factor with the next bill period.

If the dispute is unresolved the customer may request that verification audits be conducted by an independent auditor, at customer's sole expense. During the audit, the most recent undisputed TPVU factor will be used by the Telephone Company.

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2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.13 Identification and Rating of VoIP-PSTN Traffic (Cont'd)

(D) Initial OPVU and TPVU Factor

In calculating the initial OPVU and TPVU factor(s), the Telephone Company will take the factor(s) provided by the customer and/or developed by the Telephone Company into account retroactively to January 1, 2012, *provided that* the factor(s) and supporting documentation are provided as specified in subsection (C) above to the Telephone Company no later than 15 days after the effective date of this tariff. Within 15 days of receiving the customers TPVU factor the Telephone Company will verify and either request additional information or apply the TPVU and associated Telephone Company developed OPVU. If the customer does not furnish the Telephone Company with a TPVU factor pursuant to the preceding subsection (C), the initial TPVU factor will be zero.

(E) OPVU and TPVU Factor Updates

The customer may update the TPVU factor semi-annually using the method set forth in subsection (C), above. If the customer chooses to submit such updates, it shall forward to the Telephone Company, no later than 15 days after the first day of January and/or July of each year, a revised TPVU factor and supporting documentation based on data for the prior three months, ending the last day of December and/or June, respectively. Within 15 days of receiving the customers revised TPVU factor the Telephone Company will verify and either request additional information or apply the TPVU and associated Telephone Company developed OPVU. Once verified by the Telephone Company the revised TPVU factor along with the revised Telephone Company developed OPVU will apply prospectively and serve as the basis for billing until superseded by a new verified factor.

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2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances2.4.1 Payment of Rates, Charges and DepositsMISSOURI
Public Service Commission(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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JAN 1 1996

MO. PUBLIC SERVICE COMM.

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 on a current basis all charges incurred by and credits due to the customer under this tariff attributable to services established or discontinued during the preceding billing period. 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:

(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 or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12 month period. 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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96 - 147
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Public Service Commission

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 or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12 month period.

The bill will cover nonusage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage 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.

(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, 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.

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JAN 1 1996

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2. General Regulations (Cont'd)

JEC 251995

2.4 Payment Arrangements and Credit Allowances (Cont'd)

MISSOURI

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

Public Service Commission

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

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.

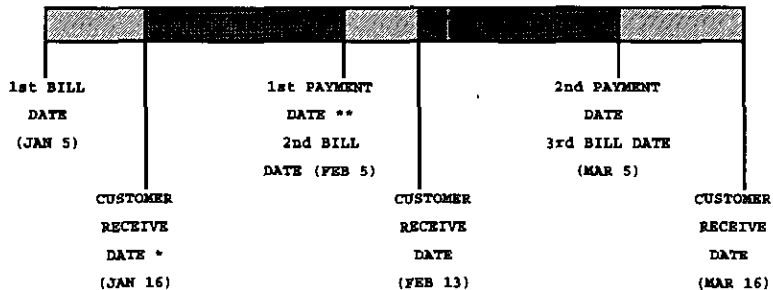
If such payment date would cause payment to be due on a Saturday, Sunday or Legal Holiday, payment for such bills will be due from the customer as follows:

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

JANUARY (31 DAYS)						FEBRUARY (28 DAYS)					MARCH (31 DAYS)						
1	6	11	16	21	26	31	5	10	15	20	25	2	7	12	17	22	27



* IF CUSTOMER DOES NOT RECEIVE BILL BY THE RECEIVE DATE THE PAYMENT DATE MAY BE EXTENDED AS SET FORTH PROCEEDING.

** IF THE PAYMENT DATE IS ON A SATURDAY, SUNDAY OR HOLIDAY, THE PAYMENT DATE WILL BE CHANGED AS SET FORTH PROCEEDING.

LEGEND:
[Shaded Box] PERIOD IN WHICH TELEPHONE COMPANY PREPARES AND DELIVERS BILL
96-147
[Dark Box] PERIOD DURING WHICH CUSTOMER'S BILL IS DUE

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Missouri Public
Service Commission

REC'D SEP 16 1999

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:

(a) the interest rate (in decimal value) which may be levied per the P.S.C, 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 in its absence.

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(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.

Missouri Public
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FILED OCT 20 1999

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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 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.

(F) 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:

- (1) the highest interest rate (in decimal value) which may be levied per the P.S.C, compounded daily for the number of days from the first date to and including the last date of the period involved, or in its absence.
- (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.

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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)(G) Rounding of Charges

(C)

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).

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those usage rated services set forth in Section 6. (Switched Access Service), 7.2.4 (Part-time Video and Program Audio), and 6.1.3 (Switched Access High Capacity DS3 Entrance Facility and DS3 Direct Trunked Transport).

The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an individual case basis as set forth in Section 12. following, is one month unless a different minimum period is established with the individual case filing.

When a service is discontinued prior to the expiration of the minimum period, charges are applicable, whether the service is used or not, as follows:

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

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2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)MISSOURI
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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 as set forth in 6.2.1 following. 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.

For Digital Data and High Capacity, Special Access Services, any period during which the error performance is below that specified for the service will be considered as an interruption.

Service interruptions for Specialized Service or Arrangements provided under Section 12. following shall be administered in the same manner as those set forth in this section (2.4.4) unless other regulations are specified with the individual case filing.

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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)

Credit allowances are computed as follows:

(1) Special Access Service Other than Program Audio and Video and flat rated Switched Access Service rate elements

For Special Access Services other than Program Audio and Video Services and for flat rated Switched Access Service rate elements (i.e., Entrance Facility, Direct Trunked Transport and Multiplexing), 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.

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 (e.g., two channel terminations, channel mileage and optional features and functions).

(b) Multipoint Services

For multipoint services, the monthly charge shall be only the total of all the monthly rate element charges associated with that portion of the service that is inoperative (e.g., a channel termination per customer designated premises, channel mileage and optional features and functions).

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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)(1) Special Access Service other than Program Audio and Video and flat rated Switched Access Service rate elements (Cont'd)(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 (i.e., the channel termination, channel mileage Entrance Facility, Direct Trunked Transport and optional features and functions, including the multiplexer on the facility to the hub, and the channel terminations, channel mileage's and optional features and functions on the individual services from the hub). 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 (i.e., channel termination, channel mileage, Direct Trunked Transport, and optional features and functions).

d) Flat rated Switched Access Service 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 (i.e., Entrance Facility, Direct Trunked Transport and Multiplexing).

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2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(2) Program Audio and Video Special Access Services

For Program Audio and Video Special Access Services, no credit shall be allowed for an interruption of less than 30 seconds. The customer shall be credited for an interruption of 30 seconds or more as follows:

- (a) For two-point services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for the service for each period of 5 minutes or fraction thereof that the interruption continues.
- (b) For two-point services, when daily rates are applicable, the credit shall be at the rate of 1/288 of the daily charges for the service for each period of 5 minutes or fraction thereof that the interruption continues.
- (c) For multipoint services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for each channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.

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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) Program Audio and Video Special Access Services
(Cont'd)

(d) For multipoint services, when daily rates are applicable, the credit shall be at the daily rate of 1/288 of the daily charges for channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.

(e) For multipoint services, the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.

(f) When two or more interruptions occur during a period of 5 consecutive minutes, such multiple interruptions shall be considered as one interruption.

(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.

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2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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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.

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2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)

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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, for amounts 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.

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2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)

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2.4.4 Credit Allowance for Service Interruptions (Cont'd)(E) Temporary Surrender of a Service

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).

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2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)MISSOURI
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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 Companies involved will mutually agree upon one of the billing methods described in (A) or (B) following based upon the interconnection arrangements between the Telephone Companies. The Single Company Billing method will only be used where technical limitations prohibit interconnection billing.

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2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

The Telephone Company will notify the customer which of the billing methods will be used. The customer will place the order for the service as set forth in 5.3 dependent upon the billing method. The Telephone Company receiving the order or copy of the order from the customer will be responsible for billing the customer.

(A) Single Company Billing

- (1) The Telephone Company receiving the order from the customer, as specified in 5.3, will arrange to provide the service, determine the applicable charges and bill the customer for the entire service in accordance with its Access Services tariff.

(B) Multiple Company (Interconnection Point) Billing

- (1) Each Telephone Company receiving an order or copy of the order from the customer, as specified in 5.3 following will determine the applicable charges for the portion of service it provides and bill in accordance with its Access Services Tariff as follows:

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2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Multiple Company (Interconnection Point) Billing (Con't)

(1) (Cont'd)

(T)

(a) For Switched Access

(i) The portion of the Local Transport provided by the Telephone Company is not distance sensitive. The Local Transport rate described in 17.2.2 will apply to the total number of access minutes. The rate charged for the portion of Local Transport provided by a connecting exchange Telephone Company will be based on the connecting exchange Telephone Company's access tariff and may be distance sensitive.

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2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

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

(b) For Special Access

(i) Determine the appropriate Channel Mileage by computing the number of airline miles between the Telephone Company serving wire centers using the V&H method set forth in 7.2.5.

(ii) Determine the billing percentage (BP), as set forth in EXCHANGE CARRIER ASSOCIATION TARIFF - WIRE CENTER & INTERCONNECTION INFORMATION, which represents the portion of the service provided by each Telephone Company, except as indicated in (iv) below.

(iii) Multiply the number of airline miles, as set forth in (i) preceding, times the BP for each Telephone company, as set forth in (ii) preceding, times the Channel Mileage Facility rate. Add the Channel Mileage Termination rate.

For intraLATA LEC to LEC traffic, V&H coordinates and billing percentages will be determined from the Missouri PTC Plan IntraLATA Data Base.

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2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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2.4.7 Access Services Provided By More Than One Telephone Company
(Cont'd)

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

(b) For Special Access (Con't)

(iv) When three or more Telephone Companies are involved in providing an Access Service, the intermediate Telephone Company(s) will determine the appropriated charges as set forth in (iii) preceding, except the Channel Mileage Termination rate does not apply.

(C) Reserved for Future Use

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2. General Regulations (Cont'd)

2.5 Connections

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

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2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code" denotes a uniform seven digit access code assigned by the Telephone Company to an individual customer. The Carrier Access Code (CAC) has the form 101XXXX and the Carrier Identification Code (CIC) has the form 950-XXXX.

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Access Minutes

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

Access Tandem

The term "Access Tandem" denotes a Telephone Company switching system that provides a concentration and distribution function for originating or terminating traffic between end offices and a customer designated premises.

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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. Generally, in the business community, these are 8:00 or 9:00 a.m. to 5:00 or 6:00 p.m., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, that company should be contacted at the address shown below.

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The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 a.m. to 11:00 p.m. period for the Feature Group 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 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 End Office.

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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.

Channel Service Unit

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

Channelize

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

C-Message Noise

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

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2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

C-Notched Noise

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

Coin Station

See Pay Telephone.

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.

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.

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 but not limited to Interexchange Carriers (ICs), End Users and other telecommunications carriers or providers originating or terminating toll VoIP-PSTN traffic.

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The term "Customer Designated Premises" denotes the premises specified by the customer for the provision of Access Service. Additionally, Telephone Company Centrex CO and CO-like switches and packet switches included in Public Packet Switching Network (PPSN) Service are considered to be a customer designated premises for purposes of this tariff.

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 0

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

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 option available with Feature Group D Access, which provides for data transmission at up to 56 kilobits per second.

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Public Service Commission2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency Address Signaling" denotes a type of signaling that is an optional feature of Switched Access Feature Group A. It may be utilized when Feature Group A is being used in the terminating direction (from the point of termination with the customer to the local exchange end office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the customer in the form of Dual Tone Multifrequency signals.

Echo Control

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

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of interface without regard to the send and receive Transmission Level Point.

Echo Return Loss

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

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2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Effective 2-Wire

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

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

The term "End Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. This term includes Remote Switching Modules/Systems served by a Host Central Office in a different wire center.

End User

The term "End User" means any customer of an intrastate 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.

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2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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."

Entry Switch

See First Point of Switching.

Envelope Delay Distortion

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

Equal Level Echo Path Loss

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

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.

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Public Service Commission2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Expected Measured Loss

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

Extended Area Service

See Exchange.

First Point of Switching

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

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 Title 47 of the Code of Federal Regulations.

Host Central Office

The term "Host Central Office" denotes an electronic local Telephone Company End Office where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks.

Additionally, this type of End Office contains the central call processing functions which service itself and its Remote Switching Modules/Systems.

Hub

A wire center at which bridging or multiplexing functions performed for customers served out of any wire center.

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Public Service Commission2. 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.

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2. General Regulations (Cont'd)2.6 Definitions (Cont'd)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 intrastate by wire or radio, between two or more exchanges.

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.

Interstate Telecommunications Service Provider

The term "Interstate Telecommunications Service Provider" 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 and includes Interexchange Carriers, Operator Service Providers, Enhanced Service Providers and any other provider of interstate telecommunications service.

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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 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.

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.

Message

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

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2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customers premises from the Telephone Company end office. (T)

Mobile Telephone Switching Office (MTSO)

The term "Mobile Telephone Switching Office (MTSO)" denotes a Cellular Mobile Carrier (CMC) switching system that is used to terminate mobile stations for purposes of interconnection to each other and to trunks interfacing with the public switched network.

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.

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2. General Regulations (Cont'd)2.6 Definitions (Cont'd)On-hook

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

Open Circuit Test Line

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

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.

Pay Telephone

The term "Pay Telephone" denotes a location where Telephone Company equipment is provided in a public or semipublic place where Telephone Company customers can originate telephonic communications and pay the applicable charges by (1) inserting coins into the equipment, or (2) using a credit card, or (3) third party billing the call or (4) calling collect.

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 premises at which the Telephone Company's responsibility for the provision of Access Service ends.

Premises

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

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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 end office switches which obtain their call processing capability from an electronic Host Central Office. The Remote Switching Modules/Systems cannot accommodate direct trunks to an IC.

Return Loss

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

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.

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2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 500, 700 and 900 codes.

Service Switching Point (SSP)

A 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" means the telephone company central office designated by the telephone company to serve the geographic area in which the interexchange carrier or other access customer's point of demarcation is located.

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.

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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.

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Public Service Commission2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Signaling Point (SP)

The term "Signaling Point (SP)" denotes a switch in the CCS network that is capable of originating and terminating SS7 trunk signaling messages.

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.

Singing Return Loss

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

Special Order

The term "Special Order" denotes an order for a Directory Assistance Service.

Subtending End Office of an Access Tandem

The term "Subtending End Office of an Access Tandem" denotes an end office that has final trunk group routing through that tandem.

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.

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2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

Toll VoIP-PSTN Traffic

The term "Toll VoIP-PSTN Traffic" denotes a customer's interexchange voice traffic exchanged with the Telephone Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. "Toll VoIP-PSTN Traffic" originates and/or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment.

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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.

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).

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Public Service Commission2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Uniform Service Order Code

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

V and H Coordinates Method

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.

WATS Serving Office

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

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.

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