

ACCESS SERVICE

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

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

ACCESS SERVICE

ISSUING CARRIERS

ZiPLY Fiber of Montana, LLC

DBA

ZiPLY Fiber

Regulatory and External Affairs Director
ZiPLY Fiber of Montana, LLC
135 Lake Street South
Kirkland, Washington 98033

ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

ZIPLY (registration pending)

REGISTERED TRADEMARKS

ZIPLY (registration pending)

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EXPLANATION OF SYMBOLS

- (C) - To signify changed regulation
- (D) - To signify discontinued rate or regulation
- (I) - To signify increase
- (M) - To signify material transferred from another sheet
- (N) - To signify new rate or regulation
- (R) - To signify reduction
- (T) - To signify a change in text

EXPLANATION OF ABBREVIATIONS

- AAM - Assumed Access Minutes
- ac - alternating current
- ACAT - Additional Cooperative Acceptance Testing
- ACD - Automatic Call Distributor
- AIOD - Automatic Identification or Outward Dialed
- AM - Access Minutes
- ANI - Automatic Number Identification
- ARD - Automatic Ringdown
- ASR - Access Service Request
- AST - Automatic Scheduled Testing
- AT&TC - American Telephone and Telegraph Communications. Inc.
- BHMC - Busy Hour Minutes of Capacity
- CCIS - Consultative Committee on International Telegraphy and Telephony
- CCS - Centum-Call Seconds

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EXPLANATION OF ABBREVIATIONS (Cont'd)

CCSA	- Common Control Switching Arrangement(s)
CDM	- Call Days in Month
CDP	- Customer Designated Premises
CEA	- Centralized Equal Access
CMF	- Chargeable Minimum Factor
COMPS	- Central Office Maintenance Planning System
Cont'd - Continued	
CST	- Cooperative Scheduled Testing
CSU	- Circuit Switching Unit
DA	- Digital Data Access
DAM	- Distance in Airline Miles
dB	- Decibel
dBm	- Decibels below one milliwatt
dBm0	-Transmission Level referred to the Zero Transmission Level Point
dBnC0	- Decibel Reference Noise C-Message Weighted \emptyset
dBv	- Decibels Referred to One Volt
d.c.	- direct current
DDS	- Digital Data Service
DSX	- Digital Signal Cross Connect
DTMF	- Dual Tone Multi-Frequency
DX	- Duplex
EC Memo	- Exchange Carrier Memorandum
EIS	- Expanded Interconnection Services
ELEPL	- Equal Level Echo Path Loss

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EXPLANATION OF ABBREVIATIONS (Cont'd)

EMI	- Exchange Message Interface
E&M	- The Receive and Transmit of a Signaling System
EML	- Expected Measured Loss
EPL	- Echo Path Loss
ERL	- Echo Return Loss
f	- frequency
FCC	- Federal Communications Commission
FCO	- Foreign Central Office Service
GSEC	- General Services and Equipment Code
HC	- High Capacity
Hz	- Hertz
IA	- Interface Arrangement
IC	- Interexchange Carrier
ICB	- Individual Case Basis
IDDD	- International Direct Distance Dialing
ILP	- Initial Liability Period
kbps	- kilobits per second
kHz	- kilohertz
LDMTS	-Long Distance Message Telecommunications Services

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EXPLANATION OF ABBREVIATIONS (Cont'd)

MA	- Market Areas
Ma	- Milliampere
Mbps	- Megabits per second
MHz	- Megahertz
MJU	- Multi-Junction Unit
MMC	- Minimum Monthly Charge
MRC	- Monthly Recurring Charge
MST	- Manual Scheduled Testing
MTL	- Maximum Termination Liability
NA	- Not Available
NANP	- North American Numbering Plan
NPA	- Numbering Plan Area
NRC	- Nonrecurring Charge
NST	- Nonscheduled Testing
NXX	- Three-Digit Central Office Code
OSHA -	Occupational Safety Hazard Act
OPS	- Off Premises Station
PRX	- Private Branch Exchange
PCM	- Pulse Code Modulation
POT	- Point of Termination
RMC	- Recurring Monthly Charge
rms	- root-mean-square

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EXPLANATION OF ABBREVIATIONS (Cont'd)

SF	- Single Frequency
SRL	- Singing Return Loss
STR	- Switched Transport Rate
TDCF	- Total Day Conversion Factor
TLP	- Transmission Level Point
TV	- Television
UL	- Underutilization Liability
VG	- Voice Grade
V & H	- Vertical & Horizontal
WA	- Wideband Analog
WATS	- Wide Area Telecommunications Service(s)

ACCESS SERVICE

1. Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to Switched Access, Special Access and Carrier Common Line Access, hereinafter referred to as Access Services, provided by the Telephone Company, to InterLATA customers, including, but not limited to, Interexchange Carriers (ICs), end users, and others subscribing to the services provided in this tariff. This tariff further provides for Miscellaneous Services. This tariff does not apply to other services offered by the Telephone Company.
- 1.2 Regulations, rates and charges as specified in this tariff apply to Access Services and shall not serve as a substitute for IC tariff offerings of services to end users. The provision of such Access Services by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with an IC for the furnishing of any service.

ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit calls or offer a telecommunications service under this tariff.
- (B) The Telephone Company shall be responsible only for the installation, operation, and maintenance of the services which it provides.
- (C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles. Testing beyond normal parameters will be done as described in Section 9 following.
- (D) Services are provided twenty-four hours daily, seven days per week.

2.1.2 Limitations

- (A) The customer may not assign or transfer the use of services provided under this tariff except that, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:

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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) (Cont'd)

- (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
- (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 which acknowledgment shall be made within 15 days from the receipt of notification. All regulations and

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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) (Cont'd)

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) The emergency provisioning and restoration of services shall be in accordance with 47 CFR § 64.401, which specifies the priority system for such activities. Section 8.6.1(C) describes the service arrangement.

(C) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability

- (A) The Telephone Company's liability, if any, for acts of gross negligence, wanton or willful misconduct, or recklessness is not limited by this tariff. With respect to any other claim or suit by a customer for damages associated with the installation, provision, termination, maintenance, repair or restoration of services, and subject to the provisions of (B) through (C) following, the Telephone Company's liability, if any, shall not exceed an amount equal to the proportionate charge for the services for the period during which the provision of services was affected. This liability for damages shall be in addition to any amounts that may otherwise be due to a customer under this tariff as a credit allowance for a provision of service interruption.
- (B) The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall the Telephone Company, for its own act or omission, hold liable any other carrier or customer providing a portion of a service.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(C) The Telephone Company shall be indemnified, defended and held harmless by the IC or end user against any claim, loss or damage arising from the use of services offered under this tariff. The foregoing indemnity shall issue on the IC or the end user separately, each being responsible for its own acts and omissions, involving:

- (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communications;
- (2) Claims for patent infringement arising from combining or using the services furnished by the Telephone Company in connection with facilities or equipment furnished by the IC or end user; or
- (3) All other claims arising out of any act or omission of the IC or end user in the course of using services provided pursuant to this tariff.

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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) 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 IC or end user from any and all claims by any person relating to the services so provided. The foregoing indemnity shall issue on the IC or the end user separately, each being responsible for its own acts and omissions.
- (E) Except in the case of willful misconduct, under no circumstances whatever shall the Telephone Company be liable for indirect, incidental, special or consequential damages; and this disclaimer shall be effective notwithstanding any other provisions hereof.
- (F) No license under patents is granted by the Telephone Company to the customer or shall be implied or arise by estoppel in the customer's favor with respect to any circuit, apparatus, system or method used by the customer in connection with services provided under this tariff. With respect to claims of patent infringement made by third persons, the Telephone Company will defend, indemnify, protect and save harmless the customer from and against all claims arising out of the use by the customer of services provided under this tariff.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(F) (Cont'd)

(G) The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the interruption allowance provisions following.

(H) The Telephone Company shall reimburse the customer for damages to premises or equipment of the customer resulting from the provision of services by the Telephone Company on such premises, or by the installation or removal thereof, caused by the negligence or willful act of the Telephone Company.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.4 Provision of Services

- (A) The Telephone Company, to the extent that such services are or can be made available with reasonable effort, and after provisions have been made for the Telephone Company's local service, will provide to the customer, upon reasonable notice, services offered in other applicable sections of this tariff at rates and charges specified in Section 20.
- (B) Services provided to a customer under this tariff may be connected directly to customer facilities and/or may be connected to access facilities of another telephone company or companies in the joint provision of intrastate access.

2.1.5 Installation and Termination of Services

The services provided under this tariff: (A) will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a suitable location inside a customer designated premise, and (B) will be installed by the Telephone Company to such point of termination.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.5 Installation and Termination of Service (Cont'd)

Wire required within a building to extend services will be provided, at the customer's request, on a time sensitive charge basis. The labor rates for installation of such wire are the same as those set forth in Section 20 following for Additional Labor.

2.1.6 Maintenance of Service

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 services 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.

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to 47 CFR § 68.1 et seq. in 47 CFR § 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, substitute, change, or

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions (Cont'd)

rearrange any telephone plant used in providing services under this tariff, change minimum network protection criteria, change operating or maintenance characteristics of facilities, or change operations or procedures of the Telephone Company. In case of any such substitution, change or rearrangement, the facility parameters will be within generally accepted standards. 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 or technical parameters of the service, as originally ordered by the customer, the Telephone Company will notify the customer in writing prior to making such substitution, change or rearrangement. Notification will be given as follows:

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

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions (Cont'd)

- Should a minor change occur, the Telephone Company shall notify the customer at least thirty days in advance. A minor change is described as any change in telephone plant which will not affect the technical parameters of the interface (e.g., level, impedance, signaling, interface, bandwidth, two-wire, four-wire, etc.).

The Telephone Company will work cooperatively with the customer relative to the redesign and implementation required by the change in operating characteristics.

2.1.8 Discontinuance and Refusal of Service

- (A) Unless the provisions of 2.1.8(B) following apply, if the customer fails to comply with the provisions of 2.1.6 preceding, 2.3.1 following, and 2.4.1(D) following, including any payments to be made by it

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Discontinuance and Refusal of Service (Cont'd)

(A) (Cont'd)

on the dates or at the times herein specified, and fails within thirty (30) days after written notice, by certified mail, from the Telephone Company to a person designated by the customer to correct such noncompliance, the Telephone Company may discontinue the provision of the services to the noncomplying customer. In case of such discontinuance, all applicable charges shall become due.

(B) If the customer repeatedly fails to comply with the provisions of this tariff in connection with the provision of a service or group of services, and fails to correct such course of action after notice as set forth in (A) preceding, the Telephone Company may refuse applications for additional services to the noncomplying customer until the course of action is corrected.

2.1.9 Limitation of Use of Metallic Facilities

Except for loop and duplex (DX) type signaling, metallic facilities shall not be used for ground return or split pair

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Limitation of Use of Metallic Facilities (Cont'd)

operation. Signals applied to the metallic facility shall conform to minimum protection criteria for direct electrical connections as set forth in 47 CFR § 68.1 et seq. In the case of applications of d.c. telegraph signaling systems, the customer shall be responsible, at its expense, for the provision of current limitations devices to protect the Telephone Company service from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excess noise.

2.1.10 Preemption of Service

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

- (A) A sufficient number of public switched services are available for public use if preemption of such services is necessary to provision or restore NSEP Service.

ACCESS SERVICE

2.	<u>General Regulations</u> (Cont'd)	
2.1	<u>Undertaking of the Telephone Company</u> (Cont'd)	
2.1.10	<u>Preemption of Service</u> (Cont'd)	
	(B)	The service(s) preempted have a lower or do not contain NSEP assigned priority levels.
	(C)	A reasonable effort is made to notify the preempted service customer of the action to be taken.
	(D)	A credit allowance for any preempted service shall be made in accordance with the provisions set forth in 2.4.4(A).
2.2	<u>Use</u>	
2.2.1	<u>Interference or Impairment</u>	
	(A)	The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the services provided under this tariff shall not interfere with or impair service over any facilities of the Telephone Company 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 their employees or to the public.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use (Cont'd)

2.2.1 Interference or Impairment (Cont'd)

- (B) Except as provided for equipment or systems subject to 47 CFR § 68.1 et seq. in 47 CFR § 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the IC or end user, as appropriate, that temporary discontinuance of the use of services may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude the Telephone Company's right to temporarily discontinue forthwith the use of services if such action is reasonable in the circumstances. In case of such temporary discontinuance the IC or end user will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, allowance for interruption of service as set forth in 2.4.4 is not applicable.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use (Cont'd)

2.2.2 Unlawful Use of Service

The services are furnished subject to the condition that they will not be used for an unlawful purpose. Services will be discontinued if any law enforcement agency, acting within its apparent jurisdiction, advises in writing that such services are being used in violation of law.

The Telephone Company will refuse to furnish services when it has reasonable grounds to believe that such services will be used in violation of law.

2.3 Obligation of the Customer

2.3.1 Damages

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

2.3.1 Damages (Cont'd)

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. The amount of reimbursement shall be the actual cost of repair to the damaged facilities including labor costs as specified in Section 20 following.

2.3.2 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 equipment space provided shall meet industry standard environmental conditions. The selection of a.c. or D.C. 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, repairing or removing facilities of the Telephone Company.

ACCESS SERVICE

<p>2. <u>General Regulations</u> (Cont'd)</p> <p>2.3 <u>Obligation of the Customer</u> (Cont'd)</p> <p>2.3.3 <u>Availability for Testing</u></p> <p>The services provided under this tariff shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.</p> <p>2.3.4 <u>Balance</u></p> <p>All signals for transmission over the service provided under this tariff shall be delivered by the customer balanced to ground except for ground start and duplex (DX), McCulloh-loop (alarm system) type signaling, and d.c. telegraph transmission at speeds of 75 baud or less.</p> <p>2.3.5 <u>Design of Customer Services</u></p> <p>Subject to the provisions of 2.1.7 preceding, the customer shall be solely responsible at its expense for the overall design of its services. The IC and end user shall be responsible separately, each at its own expense,</p>	
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ACCESS SERVICE

<p>2. <u>General Regulations</u> (Cont'd)</p> <p>2.3 <u>Obligation of the Customer</u> (Cont'd)</p> <p>2.3.5 <u>Design of Customer Services</u> (Cont'd)</p> <p>for any redesigning or rearrangement of its services which may be required because of changes in services, operations or procedures of the Telephone Company, minimum network protection criteria or operating or maintenance characteristics of the service.</p> <p>2.3.6 <u>References to Telephone Company</u></p> <p>The IC may advise its end users that certain services are provided by the Telephone Company in connection with the service the IC furnishes to its end user; however, the IC shall not represent that the Telephone Company jointly participates in the IC's services.</p> <p>2.3.7 <u>Claims and Demands for Damages</u></p> <p>(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, the IC or its end users.</p>	
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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

2.3.7 Claims and Demands for Damages (Cont'd)

- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against suits, claims, and demands 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, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities, or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

2.3.8 Theft

The customer shall reimburse the Telephone Company for any loss through theft of facilities, apparatus, or equipment utilized to provide services under this tariff at the customer designated premises or at the end user's premises. The amount of reimbursement shall be the actual cost for replacement of facilities, apparatus, or equipment lost, plus labor costs as specified in Section 20 following.

2.3.9 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

2.3.10 Identification and Rating of VoIP-PSTN Traffic

(A) Scope

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

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

(B) Rating of VoIP-PSTN Traffic

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

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

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

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

- (1) The customer will calculate and furnish to the Telephone Company a factor (the "PVU") representing the percentage of the total intrastate and interstate access MOU that the customer terminates to the Telephone Company in the State, that is sent to the Telephone Company and that originated in IP format. This PVU shall be based on information such as traffic studies, actual call detail, or other relevant and verifiable information.
- (2) The Telephone Company will apply the PVU factor to the total terminating intrastate access MOU received from the customer to determine the number of Relevant VoIP-PSTN Traffic MOUs.
- (3) If the customer does not furnish the Telephone Company with a PVU pursuant to the preceding paragraph 1, the Telephone Company will utilize a PVU equal to zero.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

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

(D) Initial PVU Factor

If the PVU factor is not available and/or cannot be implemented in the Telephone Company's billing systems by January 14, 2012, once the factor is available and can be implemented the Telephone Company will adjust the customer's bills to reflect the PVU retroactively to January 14, 2012. This retroactive adjustment will be made to January 14, 2012, provided that the customer provides the factor to the Telephone Company no later than April 15, 2012; otherwise, it will set the initial PVU equal to zero, as specified in subsection (C)(1), preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligation of the Customer (Cont'd)

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

(E) PVU Factor Updates

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

(F) PVU Factor Verification

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Charges and Deposits

- (A) The Telephone Company may, in order to safeguard its interests, 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 the services to the customer to be held by the Telephone Company as a guarantee of the payment of rates and charges. 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. A deposit may not exceed the 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 advance payments or 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. After the customer has established a one year prompt payment record, such a deposit will be refunded or credited to the customer account at any time prior

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Charges and Deposits (Cont'd)

(A) (Cont'd)

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 simple annual interest at the percentage rate specified in the Telephone Company Exchange Tariff.

(B) Where the provision of service requires facilities that meet any of the conditions specified in Section 10.1.1 following, Special Construction charges as set forth in Section 10 following will apply.

(C) The Telephone Company shall bill access services on a current basis for (a) all charges incurred, (b) applicable taxes, and (c) credits due the customer.

(1) Switched Access and Miscellaneous services shall be billed in arrears.

Such bills are due when rendered. Adjustments for the quantities of services established or discontinued in any billing period beyond the

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Charges and Deposits (Cont'd)

(C) (Cont'd)

minimum period set forth in 2.4.2 following will be prorated to the number of days based on a 30 day month. The Telephone Company will, upon request and if available, furnish such detailed information as may reasonably be required for verification of any bill.

(D) All bills to the customer are due when rendered and are considered past due thirty (30) days after the bill date. In the event the customer does not remit payment after the 30 day period, the service may be discontinued as specified in 2.1.8 preceding.

(1) If the entire amount billed, excluding any amount disputed by the customer, is not received by the Telephone Company within thirty (30) days after the bill date, an additional charge equal to 1/12th of the percentage rate for deposit interest as that set forth in 2.4.1(A) of the unpaid balance will be applied for each month or portion thereof that an outstanding balance remains.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Charges and Deposits (Cont'd)

(D) (Cont'd)

- (2) In the event that a billing dispute is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to an additional charge equal to 1/12th of the percentage rate for deposit interest as that set forth in 2.4.1(A), of the amount of such disputed charges for each month or portion thereof that such charges were unpaid. If the customer who has paid the total billed amount on or before the due date (i.e. bill date plus 30 days) disputes the billed amount within six months of the bill date and the dispute is resolved in favor of the customer, a credit will be granted to the customer for both the disputed amount paid and an amount equal to the percentage rate specified in 2.4.1(D)(1), preceding, based on this disputed amount for each month or portion thereof.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods

- (A) The minimum periods for which services are provided and for which rates and charges are applicable are set forth in Section 5.2.4 following.
- (B) The minimum periods for which services are provided and for which rates and charges are applicable for Specialized Services or Arrangements provided on an Individual Case Basis established with the individual case filing.
- (C) For discontinuance of services with a one month minimum period, all applicable charges for the one month period will apply. In instances where the minimum period is greater than one month, however, the charge will be the lesser of the Telephone Company's non-recoverable costs less the net salvage value for the discontinued service or the minimum period charges.

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for services are set forth in Section 5.2.6 following.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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 facilities used to furnish service under this tariff, or when the service is preempted as a result of invoking NSEP treatment, or in the event that the protective controls, as set forth in Section 6 following, applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(1) (Cont'd)

(a) (Cont'd)

premises, channel mileage and optional features and functions).

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

(2) For Program Audio and Videoband Special Access services, a credit allowance will be made for an interruption of 30 seconds or more. Two or more such interruptions occurring during a period of 5 consecutive

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(2) (Cont'd)

minutes shall be considered as one interruption. The allowance will be calculated as follows:

- (a) For Program Audio Service provided at monthly rates, the credit will be at the rate of 1/8640 of the monthly service rate.
 - (b) For Program Audio Service provided at daily rates, the credit will be at the rate of 1/288 of the daily rate.
 - (c) For Temporary Videoband Service provided at hourly rates, the credit will be at 1/12 of the hourly rate.
- (3) For DS1 and DS3 Special Access service, a credit allowance will be made for each occurrence of a service interruption period of three or more consecutive hours.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

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

(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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

- (4) Interruptions of a service during an agreed upon period when the customer has released a service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service. Should the maintenance, rearrangement, or order implementation interruption period extend beyond the agreed upon period, credit allowance will apply.
- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of Special Construction, as set forth in Section 10 following. The period for which no credit allowance is made begins on the seventh day after the Telephone Company's written notification to the customer of the need for such replacement and ends on the day after receipt of the customer's written authorization for such replacement.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

- (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 Alternate Service Provided by the Telephone Company

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(E) Temporary Surrender of a Service

In certain instances, the customer may be requested to surrender a service for purposes other than maintenance, testing, or activity relating to a service order. If the customer consents, or in the instance of preemption under NSEP treatment as set forth in 2.1.10 preceding, a credit allowance will be granted. The credit allowance will be determined in accordance with 2.4.4(B) preceding.

2.4.5 Performance Commitment Program

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

(A) Performance Commitment Program - Provisioning

The Telephone Company assures that orders for service will be installed and available for customer use no later than the service date as referenced in Section 5.2.1, Service Date Intervals. The failure of the Telephone Company to meet the service

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 Performance Commitment Program (Cont'd)

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

date of an Access Service Request will result in the refund of all nonrecurring charges associated with the Access Service Request. The Telephone Company's liability for failure to meet this commitment is limited to the refund of the nonrecurring charges for the Access Service Request associated with the missed service date.

The Performance Commitment Program - Provisioning does not apply:

- (1) when failure to meet the service date occurs because of conditions listed in 2.1.3(G) or due to the actions of the customer.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 Performance Commitment Program (Cont'd)

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

- 2) to Special Construction as provided in Section 10;
- 3) when the Telephone Company is not the Access Service Coordination Exchange Carrier (ASC-EC) and the Service Date is not met by the Local Exchange Carrier (LEC) acting as ASC-EC. See diagram below for indication of when the Company nonrecurring charge refund will apply:

	Company ASC-EC	Another LEC ASC-EC
Company Misses Date	Refund Applies	Refund Applies
Another LEC misses Date	Refund Applies	Refund Does Not Apply

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.6 Access Services Provided By More Than One Telephone Company

- (A) When Switched Transport or Special Transport service is provided by more than one telephone company, the telephone companies involved will mutually agree upon one of the billing methods as set forth in (1) or (2) following based upon the interconnection arrangements between the telephone companies and the availability of measurement and billing capability.

The billing method as set forth in (1) following may be used for FGC and FGD Switched Access and Special Access services where technical limitations prohibit multiple company billing.

The telephone company will notify the customer which billing methods will be used. The customer will place the order for the service as set forth in Section 5.3 following, dependent upon the billing method utilized.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(1) Single Company Billing:

- (a) The telephone company receiving the order from the customer, as specified in 5.3(A)(1) following, will arrange to provide the service, determine the applicable charges and bill the customer for the entire service in accordance with its Access tariff. The airline mileage is determined using the V&H method as set forth in the National Exchange Carrier Association (NECA) Tariff FCC No. 4.

(2) Multiple Company (Interconnection Point) Billing:

- (a) Each telephone company receiving an order or a copy of the order from the customer, as specified in Section 5.3(A)(2) following, will determine the applicable charges for the portion of the service it provides and bill in accordance with its Access tariff as follows:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

- (1) Determine the appropriate Switched and/or Special Transport miles by computing the number of airline miles between the telephone company premises (end office or access tandem and the service wire center(s) for Switched Access or for Special Access) using the V&H method as set forth in the NECA Tariff FCC No. 4.
- (2) Determine either the billing percentage (BP), as set forth in the NECA Tariff FCC No. 4, or the Interconnection Point (IP) mileage method to an interconnection point

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(2) (Cont'd)

as described in
2.4.6(A)(2)(a)(4) or 2.4.6(A)(2)(a)(5) following,
depending on which billing
arrangement is in effect between
the telephone companies
involved. This represents the portion of the
service provided by each telephone company.

(3) For Switched Access Service, using the BP
method, (a) multiply the BP
of the Telephone Company, as set forth in (2)
preceding, times the number of airline miles,
as set forth

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(3) (Cont'd)

in (1) preceding, to determine the appropriate telephone company miles to be billed, times the number of access minutes of use, times the Switched Transport rate.

Example of Billing Percentage (BP) Method:

The transport between Office X and Office Y is jointly provided by telephone companies A and B. The

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(3) (Cont'd)

Example of Billing Percentage
(BP) Method: (Cont'd)

following example reflects the rate for telephone company A. Rates for telephone company B would appear in its appropriate Access Tariff.

- (A) Airline miles from telephone company A (Office X) to telephone company B (Office Y) = 50 airline miles as set forth in NECA Tariff FCC No. 4.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(3) (Cont'd)

Example of Billing Percentage
(BP) Method: (Cont'd)

(B) Billing Percentage for each telephone company from NECA Tariff FCC No. 4.

Telephone Company A = 40%
Telephone Company B = 60%

(C) Access Minutes for Telephone Company A = 9000.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(3) (Cont'd)

Example of Billing Percentage
(BP) Method: (Cont'd)

(D) Transport rate (switched) for Telephone
Company A = \$.00090753.

Formula:

Billing Percentage (BP) x Airline miles
(ALM) x Access Minutes (AM) x
Transport Rate = Total.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(3) (Cont'd)

Example of Billing Percentage
(BP) Method: (Cont'd)

(D) (Cont'd)

Calculation:

Telephone Company A

$$\frac{BP}{.40} \times \frac{ALM}{50} \times \frac{AM}{9,000} \times \frac{Transport Rate}{.00090753} = \frac{Total}{\$163.36}$$

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

- (4) When the two telephone company premises are owned by two different telephone companies and both are involved in the provision of service over jointly owned Switched Transport, utilizing IP billing, the V&H method to determine airline mileage is calculated as follows: (a) determine the airline miles to the facility IP from each of the two telephone company premises, (b) determine the percent of total airline miles applicable to each telephone company, (c) determine the airline mileage between the two telephone

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(4) (Cont'd)

company premises as set forth in NECA Tariff FCC No. 4, (d) apply the appropriate percent to the airline mileage to determine the number of airline miles applicable to each telephone company.

If the distance between Office X and Office Y is 50 airline miles, as developed in accordance with the NECA Tariff FCC No. 4, and jointly owned facilities between them were used for the provision of service, rate mileage is developed as follows:

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(4) (Cont'd)

Example of IP Billing Method
Between Two Telephone Companies:

(A) Airline miles of telephone company A
(Office X) to the multiple company facility
IP = 24 airline miles.

(B) Airline miles of telephone company B
(Office Y) to the multiple company
facility IP = 36 airline miles.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(4) (Cont'd)

Example of IP Billing Method
Between Two Telephone Companies:

(B) (Cont'd)

(1) Total airline miles
measured to the multiple company
facility IP = 60 airline miles.

(C) Percent telephone company = $24/60 = 40\%$.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(4) (Cont'd)

Example of IP Billing Method
Between Two Telephone Companies:

(D) Percent telephone company B
= $36/60 = 60\%$.

(E) Airline mileage between the
two telephone companies' wire centers for
company A and B
= 50 airline miles.

(F) Chargeable airline mileage for company
A = 40% of 50
airline miles = 20.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(4) (Cont'd)

Example of IP Billing Method
Between Two Telephone Companies:

(G) Chargeable airline mileage for company
B = 60% of 50 airline miles = 30.

(5) When three or more telephone companies are
involved in providing Switched Transport
service and the BP method described in
2.4.6(A)(2)(a)(2) is not utilized, each
telephone company will

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(5) (Cont'd)

determine its appropriate chargeable miles as follows:

Example of IP Billing Method Between Three or More Telephone Companies:

The airline mileage between telephone company A (Office X) and telephone company C (Office Y) is 70 airline miles, as developed in accordance with the NECA Tariff

FCC No. 4, and facilities are jointly owned between Office X and Office Y by three telephone companies.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(5) (Cont'd)

Example of IP Billing Method
Between Three or More Telephone
Companies: (Cont'd)

(A) Airline miles between
telephone company A and telephone company
C wire centers = 70 airline miles.

(B) Airline miles of telephone company A to
telephone company B facility IP = 28
airline miles.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(5) (Cont'd)

Example of IP Billing Method Between Three
or More Telephone Companies: (Cont'd)

(B) (Cont'd)

Airline miles of telephone company B
facility between telephone company A IP
and telephone company C IP = 42 airline
miles.

Airline miles of telephone company C to
telephone company B facility IP = 30
airline miles.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing:
(Cont'd)

(a) (Cont'd)

(5) (Cont'd)

Example of IP Billing Method Between Three
or More Telephone Companies: (Cont'd)

(C) Percent of:
telephone company A =
 $28/100 = 28\%$
telephone company B =
 $42/100 = 42\%$
telephone company C =
 $30/100 = 30\%$

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

(a) (Cont'd)

(5) (Cont'd)

Example of IP Billing Method Between Three
or More Telephone Companies: (Cont'd)

(D) Chargeable Airline Miles:

Telephone Company A =
28% x 70 = 20 airline miles.
Telephone Company B =
42% x 70 = 29 airline miles.
Telephone Company C =
30% x 70 = 21 airline miles.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company (Interconnection Point) Billing: (Cont'd)

- (b) All other appropriate recurring and nonrecurring charges in each telephone company's Access tariff are applicable.

2.5 Connections

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Area

The term "Access Area" denotes a specific calling area containing those customers served by one or more Central Offices associated with the various Switched Access provisions offered under this tariff. The size and configuration of the Access Area a customer obtains is dependent upon the Feature Group type and the specific characteristics of the Central Office or Access Tandem network to which the customer is connected.

Access Code

The term "Access Code" applies to Switched Access Service. It denotes the numbers dialed by the Telephone Company's local subscribers to access an Interexchange Carrier's facilities.

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in intrastate, interstate or foreign service for the purpose of calculating chargeable usage. On the originating end of an intrastate, interstate or foreign call, usage is measured from the time the originating End User's call is delivered by the Telephone Company to and acknowledged as received by the customer's

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Access Minutes (Cont'd)

facilities connected with the originating exchange. On the terminating end of an intrastate, interstate or foreign call, usage is measured from the time the call is received by the End User in the terminating exchange. Timing of usage at both originating and terminating ends of an intrastate, interstate or foreign call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating end exchanges, as applicable. For the calculation of total minutes, seconds are totaled and converted to minutes before rounding occurs. Remainder seconds greater than 29 are rounded to a minute.

Access Tandem

The term "Access Tandem" denotes a Telephone Company switching system that provides a traffic concentration and distribution function for inter-LATA and/or intra-LATA traffic originating from or terminating at end offices in the access area.

Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer designated premises for terminating calls to a Telephone Company end office as an indication that the called party has answered or disconnected.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Attempt

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

Attenuation Distortion

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

Balance (100-Type) Test Line

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

BHMC

See Busy Hour Minutes of Capacity.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Bit

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

Bridging

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

Bridging Wire Center

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

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.

Busy Hour Minutes of Capacity

The term "Busy Hour Minutes of Capacity" (BHMC) denotes the trunk group usage load consisting of the average usage load for the busy season.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Busy Season

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

C-Conditioning

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

C-Message Noise

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

C-Notched Noise

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

CCS

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

Call

The term "Call" denotes a communication including an off-hook signal and routing information initiated at the originating location and completed to a terminating location.

Central Office

The term "Central Office" denotes a telephone company local switching system where telephone company local service subscriber station loops are terminated for purposes of interconnection to each other and to trunks.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Central Office Loop Around Test Line

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

Central Office Prefix

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

Centralized Automatic Reporting on Trunks (CAROT) Testing

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing circuits using analog or digital techniques.

Circuit

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

Common Line

The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the Exchange 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 Exchange tariffs. A Common Line-Business is a line provided under the business regulations of the Exchange tariffs. A pay telephone line is a line provided under the public and/or semi-public service regulations of the Exchange tariffs of the Telephone Company.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Communications System

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

Confirmed Order

The term "Confirmed Order" denotes a customer's order for Switched Access Services which the Telephone Company has processed with the Engineering Department to confirm for the customer and the Telephone Company the availability of facilities and/or equipment. The date the order is confirmed, the standard service date interval commences.

Customer

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Customer Designated Premises

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

D-Conditioning

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

Daily Busiest Hour

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

ACCESS SERVICE

General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Data Transmission (107-Type) Test Line

The term "Data Transmission (107-Type) Test Line" denotes an arrangement which provides for the connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Dual Tone Multifrequency Address Signaling

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

Echo Path Loss

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

Echo Return Loss

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

End Office Switch

The term "End Office Switch" denotes a Telephone Company local switching system where Telephone Company local service subscriber station loops are terminated for purposes of interconnection to each other and to trunks.

End User

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

Engineering Review

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

Entry Switch

See First Point of Switching.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Excess Capacity

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

Exchange

The term "Exchange" denotes a unit generally smaller than a Local Access and Transport Area (LATA), 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. One or more designated exchanges comprise a given LATA.

First Point of Switching

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Four-Wire to Two-Wire Conversion

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

Ground Start Supervisory Signaling

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

Individual Case Basis

The term "Individual Case Basis" denotes a condition where 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Information Service Provider

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

Installed Cost

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

Interexchange Carrier (IC) or Interexchange Common Carrier

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Intermodulation Distortion

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

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

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

Line Side Connection

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Local Access and Transport Area (LATA)

The term "Local Access and Transport Area" (LATA) denotes a geographic area for the provision and administration of communications service. It encompasses designated Access

Areas which are grouped to serve common social, economic and other purposes.

Local Tandem Switch

The term "Local Tandem Switch" denotes a Telephone Company local operating unit by means of which local or access telephonic communication is switched to and from an end office switch.

Maximum Termination Liability (MTL)

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Maximum Termination Liability Period

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

Message

See Call.

Mid Link

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

Milliwatt (102-Type) Test Line

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 customer designated premises from the Telephone Company end office.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

National Security Emergency Preparedness (NSEP) Services

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

Net Salvage

The term "Net Salvage" denotes the estimated scrap, sale or trade-in value, less the estimated cost of removal. Cost of removal includes the costs of demolishing, tearing down, removing, or otherwise disposing of the material and any other applicable costs. Because the cost of removal may exceed salvage, facilities may have negative net salvage.

Nonrecoverable Cost

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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 which can be made more rapidly.

North American Numbering Plan

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

NSEP Treatment

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

Off-Hook

The term "Off-Hook" denotes the active condition of Switched Access or a Telephone Company local service line.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

On-Hook

The term "On-Hook" denotes the idle condition of Switched Access or a Telephone Company local service line.

Open Circuit Test Line

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

Operator Services Switching Location (OSSL)

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

Order Interval

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

Originating Direction

The term "Originating Direction" denotes the use of Switched Access for the origination of calls from an end user to a customer designated premise.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Pay Telephone

The term "Pay Telephone" denotes a location where Telephone Company equipment is provided in a public or semipublic place where telephone customers can originate telephonic communications and pay the applicable charges by inserting coins in the equipment.

Point of Termination

The term "Point of Termination" denotes the point of demarcation at a customer designated premise or end user premises at which the Telephone Company's responsibility for the provision of Access Service ends.

Premises

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

Pre-service Testing

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Public Pay Telephone

The term "Public Pay Telephone" denotes a switched coin line provided under the Public Pay Telephone Service regulations of the Exchange tariffs of the Telephone Company.

Recoverable Cost

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

Registered Equipment

The term "Registered Equipment" denotes the customer's terminal equipment which comply with and have been approved within the Registration Provisions of 47 CFR § 68.1 et seq.

Route Mileage

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Scheduled Issue Date

The term "Scheduled Issue Date" denotes the date the Telephone Company is scheduled to enter the order details into its order distribution system.

Semi-Public Pay Telephone

The term "Semi-Public Pay Telephone" denotes a switched coin line provided under the Semi-public Telephone Service regulations of the Exchange tariffs of the Telephone Company.

Service Date

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

Seven-Digit Manual Test Line

The term "Seven-Digit Manual Test Line" denotes a set of optional features for all Switched Access which allow the IC to select balance, milliwatt, and synchronous test lines of FGA, by manually dialing a seven-digit number over the associated Switched Access.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Short Circuit Test Line

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

Synchronous Test Line

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

Telecommunications Service Priority (TSP) System

The term "Telecommunications Service Priority (TSP) System" or "TSP System" or "NSEP TSP System" refers to the regulatory, administrative and operational system authorizing and providing for priority treatment (i.e., the provisioning and restoration) of NSEP Services.

Temporary Facilities

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Terminating Direction

The term "Terminating Direction" denotes the use of Switched Access for the completion of calls from a customer designated premise to an end user.

Trunk

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

Trunk Group

The term "Trunk Group" denotes a grouping 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 switching system.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

V&H Coordinates Method

The term "V&H Coordinates Method" denotes a method of computing airline miles between two points by utilizing an established formula which is based on the Vertical (V) and Horizontal (H) 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 end office switches, and cross connection equipment used for the provision of Telephone Company telecommunications services, are located.

Wire Center Area

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

ACCESS SERVICE

3. Carrier Common Line Access Service

3.1 General Description

Carrier Common Line Access Service provides for the use of Telephone Company Common lines by customers furnishing Intrastate Communications and obtaining Switched Access under Section 6 of this tariff.

3.2 Limitations

- (A) A telephone number is not provided with Carrier Common Line Access Service.
- (B) Detail billing is not provided with Carrier Common Line Access Service.
- (C) Directory listings are not included in the rates and charges for Carrier Common Line Access Service.
- (D) Intercept arrangements are not included in the rates and charges for Carrier Common Line Access Service.

3.3 Rate Regulations

The regulations as set forth in Section 2.4.1 apply to Carrier Common Line Access Service for payment of rates, charges, and deposits.

ACCESS SERVICE

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

3.3 Rate Regulations (Cont'd)

3.3.1 Charges

The Carrier Common Line Access charge is a usage rated charge. The usage rate applies to all feature groups and is assessed on the basis of originating and terminating access minutes.

3.3.2 Jurisdictional Determination

When mixed interstate and intrastate Switched Access is provided by the Telephone Company, intrastate Carrier Common Line Access applies to that portion of Switched Access allocated to intrastate. The methodology for apportioning Switched Access between intrastate and interstate is set forth in Section 6 following.

3.3.3 Carrier Common Line Access Service Associated With Resale of MTS/WATS and MTS/WATS-type Service

In order for the rate regulations to apply as set forth in (A) and (B) following, the Switched Access and resold services must be provided in the State of Montana, in the same LATA, by the same Telephone Company. For those LATAS's that extend into more than one state, the customer shall report this information by state within the LATA.

ACCESS SERVICE

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

3.3 Rate Regulations (Cont'd)

3.3.3 Carrier Common Line Access Service Associated With Resale of MTS/WATS and MTS/WATS-type Service (Cont'd)

Switched Access used in conjunction with the resale of MTS/WATS and MTS/WATS-type services is described in Section 6 following. Carrier Common Line Access Service used in conjunction with such resold services is subject to general provisions of Sections 6 following. The determination of specific Carrier Common Line Access Service charges is specified in (A) and (B) following.

(A) When the customer reports WATS or WATS-type usage associated with resale and the Telephone Company verifies that the reports are accurate, Carrier Common Line Access will be rated as follows:

(1) For each WATS or WATS-type line associated with a FGA, the Carrier Common Line Access Service charge will be waived.

ACCESS SERVICE

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

3.3 Rate Regulations (Cont'd)

3.3.3 Carrier Common Line Access Service Associated With Resale of MTS/WATS and MTS/WATS-type Service (Cont'd)

(A) (Cont'd)

(2) For each WATS and WATS-type line with originating traffic associated with FGD, a credit will be given on a minute for minute basis toward the Carrier Common Line Access charge. This credit in combination with the credit described in (B) below, shall not exceed the total Carrier Common Line Access charge that would have been rendered in a given billing period.

(B) When the customer reports MTS or MTS-type usage associated with resale and the Telephone Company verifies that the reports are accurate, Carrier Common Line Access Service will be rated as follows:

(1) For originating MTS or MTS-type usage associated with FGA, FGB or FGD, a credit will be given on a minute for minute basis toward the Carrier Common Line Access

ACCESS SERVICE

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

3.3 Rate Regulations (Cont'd)

3.3.3 Carrier Common Line Access Service Associated With Resale of MTS/WATS and MTS/WATS-type Service (Cont'd)

(B) (Cont'd)

(1) (Cont'd)

charge. This credit, in combination with the credit described in (A)(2) above, shall not exceed the total Carrier Common Line Access charge that would have been rendered in a given billing period.

3.3.4 Measuring Access Minutes

Access Minutes will be measured in accordance with provisions set forth in Section 6 following.

3.4 Rates and Charges

The rates for Carrier Common Line Access Service are as set forth in Section 20.

ACCESS SERVICE

4. End User Access Service

4.1 General

The Telephone Company will provide an End User Common Line to End Users who obtain local exchange service from the Telephone Company. The offerings contained in this section are available only to End Users.

The End User Common Line (EUCL) provides for the use of local exchange service by an End User.

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

The Telephone Company will be responsible for contacts and arrangements with End Users for End User per month charges.

ACCESS SERVICE

5. Access Service Ordering

5.1 General

This section sets forth the regulations and order related charges to provide the customer with Access Services. These charges are in addition to other applicable charges as set forth in other sections of this tariff.

5.1.1 Ordering Conditions

- (A) A customer may order any amount of Access Services of the same interface type or same Feature Group on a single Access Order. Orders for FGA must be in number of lines required. Orders for FGB, FGC and FGD must be in Busy Hour Minutes of Capacity (BHMC). Additional order requirements for Switched Access Service are described in Sections 6 following.
- (B) The customer shall supply all details necessary to complete an order. The details may include the following: requested service date, customer name, customer designated premises, end office, Interface Arrangement, type of Switched Access, End Office Services and Signaling Interface, and originating and terminating capacity required.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

- (C) When the Alternate Traffic Routing Optional Arrangement is ordered, more than one customer designated premise will be supplied and the number of lines for FGA, BHM for FGB, FGC and FGD to each customer designated premise shall be specified.
- (D) To determine if adequate central office facilities (i.e., trunk circuits) for FGD will be available on the conversion date to equal access and to be eligible for the facility allocation as set forth in the following paragraph all customers (including those customers who convert existing FGA, FGB and FGC to FGD) must order FGD 120 days prior to an end office conversion to equal access.

When trunk circuits are not available to meet the demand, an allocation of available trunk circuits will be required. The allocation of available facilities is a three step process as described below:

In this example assume nine ICs have ordered BHMCs which necessitate 1,000 FGD trunks where only 800 trunks are available at the conversion date.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(D) (Cont'd)

Step 1: Provide an initial flat 25% distribution of available trunk circuits to each requesting IC except for incremental requests over existing levels of FGC. (See table in Step 3).

$$-25\% \times 800 \text{ (available facilities)} = 200$$

$$\frac{-200}{(9-1)} = 25$$

Step 2: Assign all remaining facilities proportionately, working from bottom up until ICs, as a result of the proration are assigned less facilities than desired. First determine facilities available for apportionment.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(D) (Cont'd)

Step 2: (Cont'd)

- $800 - 175 = 625$ (eligible users are A, B, C, D, E, F)

- $\frac{(\text{Requested Facilities})}{(\text{Total Requested Facilities}) \times \text{Remaining Facilities}} \text{ (of Remaining Facilities)}$

- $F = \frac{70}{1000 - 50} \times 625 = 46$ (assign only 45)¹

- $E = \frac{80}{1000 - 120} \times (625 - 45) = 53$

(E receives less facilities than originally ordered i.e., $53 + 25 = 78$)

¹ Will not assign more than requested.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(D) (Cont'd)

Step 3: When an IC receives less facilities than desired, the remainder of ICs are allocated according to the following allocation factor:

$$\frac{\text{Remaining Facilities}}{\text{Total Requested Facilities of Remaining Eligible Users of Access}} = \frac{625 - 98}{1000 - 200} = \frac{527}{800} = .659$$

- D= 100 x .659 = 66
- C= 200 x .659 = 132
- B= 200 x .659 = 132
- A= 300 x .659 = 197

ACCESS SERVICE

5. <u>Access Service Ordering</u> (Cont'd)						
5.1 <u>General</u> (Cont'd)						
5.1.1 <u>Ordering Conditions</u> (Cont'd)						
(D) (Cont'd)						
Step 3: (Cont'd)						
<u>ICs</u>	<u>Demand Desired (In Trunks)</u>	<u>Resources Available</u>	<u>Step 1 Flat 25 Distribution</u>	<u>Step 2</u>	<u>Step 3</u>	<u>Total Assigned Facilities</u>
A	300	—	25	—	197	222
B	200	—	25	—	132	157
C(*)	200	—	-0-	—	132	132
D	100	—	25	—	66	91
E	80	—	25	53	—	78
F	70	—	25	—	—	70
G	25	—	25	—	—	25
H	15	—	15 ²	—	—	15
I	<u>10</u>	<u>—</u>	<u>10</u>	<u>—</u>	<u>—</u>	<u>10</u>
TOTAL	1,000	800	175	98	527	800
L						

² Request for additional facilities by a user of access with existing FGC. Will not assign more than requested

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

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

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

- (F) When ordering Operator Services, an ASR is required to establish a new FGC or FGD trunk group(s) or to add Operator Services to an existing FGC or FGD trunk group between the Telephone Company's Operator Services Switching Location and one CDP in the same LATA.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Ordering Conditions (Cont'd)

(F) (Cont'd)

When measurement capability does not exist for Operator Services per call charges, a forecast of the number of Operator Services calls anticipated is required from the customer as set forth in Section 6 when the initial order for Operator Services is placed.

5.1.2 Provision of Other Services

- (A) At the option of a customer, Recording and Processing, Additional Labor, Telecommunications Service Priority (TSP), Testing and Special Routing services may be ordered with an Access Order at the same time the order is accepted by the Telephone Company. Such requests will be considered to be supplemental to the Access Order. The rates and charges for these services as set forth in other sections of this tariff will apply in addition to the ordering charges set forth in this section and the rates and charges for the Switched Access with which they are associated.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.1 General (Cont'd)

5.1.2 Provision of Other Services (Cont'd)

- (B) The items listed in (A) preceding may subsequently be added to the order at any time, up to and including the service date established by the Access Order. When ordered subsequently, charges for order modifications as set forth in 5.2.2 following will apply.

5.1.3 Special Construction

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

5.2 Access Service Request

An Access Services Request is used by the Telephone Company to order the following types of Access Services requested by the customer:

- Switched Access as set forth in Section 6 following and,
- Other Services as set forth in 5.1.2(A) preceding.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.1 Service Date Intervals

The time required to provision service is known as the service date interval. Such intervals will be established in accordance with published service date interval guidelines which are available to customers upon request. The service date interval guidelines will apply to Access Service Requests and will specify the quantities of access services that can be provided on the same service date. The customer may request a service date other than that established pursuant to the service date interval guidelines. The Telephone Company, where possible, will establish the service date in accordance with such request, subject to other applicable provisions of this tariff.

5.2.2 Access Order Modifications

The customer may request a modification of its Access Order prior to the service date. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the modification cannot be made with the normal work force during

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

normal business hours, the Telephone Company will notify the customer. If the customer still desires the access order modification, the Telephone Company will schedule a new service date. All charges for access order modifications will apply on a per occurrence basis. Where new access orders may be required, the appropriate charges as set forth in other sections of this tariff will be applicable.

Any increase in the number of Switched Access lines or BHMCs for FGB, FGC and FGD will require the issuance of a new Access Order for the incremental capacity.

(A) Service Date Change Charge

Access order service dates may be changed, however a Service Date Change Charge will apply for each service date change after the scheduled issue date of the original order.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(A) Service Date Change Charge (Cont'd)

The new service date may not exceed the original service date by more than 60 days. If the requested service date is more than 60 days after the original service date, the order will be considered cancelled and cancellation charges as set forth in 5.2.6 will apply. A new order will be issued with the new service date.

With the agreement of the Telephone Company, a new service date may be established that is prior to the original service date and the provisions set forth in 5.2.2(D) following will apply in addition to the Service Date Change Charge.

A Service Date Charge will apply for each service date change after the scheduled issue date of the original order. The charge for Service Date Change is as set forth in Section 20.

(B) Partial Cancellation Charge

Any decrease in the number of Switched Access lines for FGA or BHMC for FGB, FGC, and FGD will be treated as a partial cancellation.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(B) Partial Cancellation Charge (Cont'd)

For Switched Access lines for FGA, or BHMC for FGB, FGC and FGD, the amount cancelled cannot cause the order to drop below the minimum requirements as set forth in 5.1.1 preceding and 5.4 following. When the capacity cancelled brings the ordered capacity below these minimum requirements, the entire order will be cancelled.

A Cancellation Charge will apply on a per occurrence per access order basis. Cancelled BHMC will be converted to trunks as set forth in Technical Reference document TR-NPL-000275. The applicable Cancellation Charge is set forth in 5.2.6(C) and (D) following.

(C) Design Change Charge

The customer may request a design change to the access services ordered. A design change is any change to an access services order which requires engineering review. A design change may include

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(C) Design Change Charge (Cont'd)

the cancellation or addition of Optional Arrangements. It may not include a change of Switched Access Interface Arrangement or facility type, IC customer designated premises, end user premises, end office switch, or access service type. Changes of this nature will require a new order.

The Telephone Company will review the requested change, notify the customer whether the change can be accommodated and specify if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. The Design Change Charge is equal to one half of the nonrecurring charges for the access service ordered. The Design Change Charge is in addition to any nonrecurring charges associated with the change requested. The Design Change Charge will apply on a per order basis.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(C) Design Change Charge (Cont'd)

If a change of service date is required, the Service Date Change Charge as set forth in (A) preceding will also apply.

(D) Requests for Expedition

A customer may request an expedited service date. When this situation occurs, charges may be applicable as set forth in Section 9.2 following.

5.2.3 Specific Circuit Path Selection

For Access Orders, a specific transmission path or circuit is provided for under Special Facilities Routing of Access Services as set forth in Section 12 following.

5.2.4 Minimum Period

(A) The Minimum Period for Miscellaneous Services is as set forth in Section 9 following.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.4 Minimum Period (Cont'd)

- (B) The Minimum Period for services provided under Special Construction provisions and for which charges are applicable is as set forth in Section 10 following.
- (C) Except for FGD ordered prior to the conversion of an end office to equal access, the Minimum Period for Switched Access is three months.
- (D) For FGD ordered prior to the conversion of an end office to equal access there is no Minimum Period. However, discontinuance charges will apply as set forth in 5.2.7 following.

5.2.5 Minimum Period Charges

When access services are discontinued prior to the expiration of the Minimum Period, charges are applicable for the remaining months and/or fraction thereof of the Minimum Period.

The Minimum Period Charge will be determined as follows:

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.5 Minimum Period Charges (Cont'd)

- (A) For non-premium FGA and FGB, the charge for each remaining month and/or fraction thereof is equal to the applicable Minimum Monthly Charge as set forth in Section 6 following for the services discontinued.
- (B) For End User Common Lines, the charge is the applicable monthly rate for the service as set forth in Section 20 following.
- (C) For FGD ordered after conversion of an end office to equal access, and premium FGA, FGB and FGC, the charge for each remaining month and/or fraction thereof will be equal to the applicable Minimum Monthly Charge as set forth in Section 6 following for the services discontinued. For FGD ordered prior to conversion of an end office to equal access, discontinuance charges as set forth in 5.2.7 following will apply.
- (D) For FGA and FGB type services where measurement equipment is not available, the charge for each remaining month and/or fraction thereof will be equal to the applicable Minimum Monthly Charge as set forth in Section 6 following.

ACCESS SERVICE

<p>5. <u>Access Service Ordering</u> (Cont'd)</p> <p>5.2 <u>Access Service Request</u> (Cont'd)</p> <p>5.2.6 <u>Cancellation of an Access Order</u></p> <p>(A) A customer may cancel an Access Order on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled.</p> <p>If a customer is unable to accept access services within 60 days of the original service date, the access order shall be considered cancelled and charges as set forth in (C) and (D) following will apply. In such instances, the cancellation date shall be the 61st day beyond the original service date of the access order.</p> <p>(B) Access order costs are considered to have started when the Telephone Company incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred. These costs include but are not limited to preliminary engineering, orders to suppliers, and other similar items of cost. For purposes of determining cancellation charges, the costs are considered to have started the day the Telephone Company is scheduled to complete entering the</p>

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.6 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

initial order details into its order distribution system. For all access orders this is known as the Scheduled Issue Date.

(C) Except as specified in (D) following, when a customer cancels an access order on or after the Scheduled Issue Date, a Cancellation Charge equal to the nonrecurring charges associated with all items on the access order will apply per order.

(D) For cancellation of an order for Switched Access FGD before an end office converts to equal access, cancellation charges as set forth following will apply if the Telephone Company is notified of the cancellation within a period of 12 months prior to the scheduled service date. Cancellation charges apply to each trunk cancelled.³

³ FGD capacity is ordered (and cancelled) in BHMC. Cancelled BHMC will be converted to trunks as set forth in Notes on the BOC Interlata Network, Bell Communications Research, Inc., Technical Reference TR-NPL-000275.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.6 Cancellation of an Access Order (Cont'd)

(D) (Cont'd)

When, due to a shortage of FGD facilities an allocation of FGD facilities is made, cancellation charges apply only to circuits allocated to the customer.

Cancellation charges will accrue to the maximum in equal monthly increments (i.e., Maximum Cancellation Charge divided by 12) beginning twelve months before an end office converts to equal access. Maximum cancellation charges are listed in Section 20 following. The charge applied will be the accrued charge in the month during which notice of cancellation is received by the Telephone Company.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.6 Cancellation of an Access Order (Cont'd)

(D) (Cont'd)

Example:

Month During Which Notice Is Received Before Conversion Date	Charge Per Trunk Cancelled
12	\$ 44.18
11	88.35
10	132.53
9	176.70
8	220.88
7	265.05
6	309.23
5	353.40
4	397.58
3	441.75
2	485.93
1	530.10

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.7 Discontinuance of Switched Access FGD

A Discontinuance Charge applies if a customer discontinues FGD service provided at the conversion of an end office to equal access. The Discontinuance Charge applies to each FGD trunk discontinued.⁴ For purposes of calculating the Discontinuance Charge the Maximum Discontinuance Charge will be amortized in equal monthly increments (i.e., Maximum Discontinuance Charge divided by 12) over a 12 month period beginning on the date the end office converts to equal access. The Maximum Discontinuance Charge is derived by subtracting the Installation Charge set forth in Section 20 following from the FGD Maximum Cancellation Charge set forth in Section 20. The charge assessed will be the unamortized portion of the Maximum Discontinuance Charge.

⁴ FGD Capacity is ordered (and discontinued) in BHMC. Discontinued BHMC will be converted to trunks as set forth in Notes on the BOC Interlata Network, Bell Communications Research, Inc., Technical Reference TR-NPL-000275.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.7 Discontinuance of Switched Access FGD (Cont'd)

Example:

Month During Which Service is Discontinued <u>After</u> <u>Conversion Date</u>	Charge (Per Trunk <u>Disconnected</u>)
1	\$468.10
2	429.09
3	390.08
4	351.08
5	312.07
6	273.06
7	234.05
8	195.04
9	156.03
10	117.03
11	78.02
12	39.01

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.2 Access Service Request (Cont'd)

5.2.8 FGD Maximum Per Trunk Cancellation Charge

The FGD Maximum Per Trunk Cancellation Charge is as set forth in Section 20.

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

(A) Switched Access Services provided by more than one telephone company are services where one end of the Switched Transport facility is in the operating territory of one telephone company and the other end of the facility is in the operating territory of a different telephone company.

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in Section 2.4.6 preceding, to be used by the telephone companies involved in jointly provided services(s). The telephone company will notify the IC, identifying which ordering procedures will apply.

(1) Single Company Billing

The telephone company receiving the order from the customer will arrange to provide the service

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

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

(A) (Cont'd)

(1) Single Company Billing (Cont'd)

and bill the customer as set forth in Section 2.4.6(A)(1) preceding. The customer will place the order with the telephone company as follows:

(a) For Switched Access Services the customer will place the order with the telephone company in whose territory the following is located:

- FGA - dial tone office
- FGB - the first point of switching
- FGC - the first point of switching
- FGD - the first point of switching

When the preceding is not in the same telephone company's territory as the customer designated premises (CDP), the customer must supply a copy of the order to the telephone company in whose territory the CDP is located.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company Billing (Interconnection Point-IP)

Each telephone company will provide its portion of the Switched Transport or Special Transport service within its operating territory to the multiple company facility (IP) with the other telephone company(s). The IP(s) will be determined by the telephone companies involved in providing the access services and listed in the National Exchange Carrier Association's Tariff FCC No. 4. Each telephone company will bill the customer for its portion of the service as set forth in Section 2.4.6(A)(2) preceding. All other appropriate recurring and nonrecurring charges in each telephone company's Access tariff are applicable.

(a) For FGA and FGB Switched Access Services, the customer must place an order with the telephone company as specified in 5.3(A)(1)(a) preceding.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company Billing (Interconnection Point-IP) (Cont'd)

- (b) For FGC and FGD Switched Access Services, the customer must place an order with the telephone company in whose territory the end office is located.
- (c) When WATS is ordered where the WATS screening office and the end user's serving wire center are not coterminous, the telephone company in whose territory the end user's serving wire center is located must receive the order from the customer. In addition, the telephone company in whose territory the WATS screening office is located must also receive a copy of the order from the customer.
- (d) For Special Access Services without the use of a Hub Wire Center, the customer will place the order with the telephone company in whose territory the CDP is located.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

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

(A) (Cont'd)

(2) Multiple Company Billing (Interconnection Point-IP) (Cont'd)

(e) For Special Access Services with a Hub Wire Center the customer will place the order with the telephone company in whose territory the Hub Wire Center is located.

For the service(s) ordered as set forth preceding, the customer must also supply a copy of the order to any other telephone company(s) involved in providing the service.

5.4 Switched Access Minimum Capacity Requirements

5.4.1 When Switched Access is ordered it will be provided subject to the minimum capacity provisions set forth in 5.1 preceding and 5.4.2 through 5.4.5 following.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.4 Switched Access Minimum Capacity Requirements (Cont'd)

- 5.4.2 There is no minimum capacity for Interface Arrangements 1 and 2 as set forth in Section 6 following. However, for Interface Arrangements 3 through 10 the minimum capacity is as set forth in 5.4.4 following for which charges are applicable as set forth in 5.4.5 following.
- 5.4.3 For the purpose of administering the minimum capacity provisions, different Switched Access feature groups may be grouped together if the facilities provided for all the connections are the same and terminate in the same facilities terminal in the same Telephone Company access tandem or end office.
- 5.4.4 The following table provides the total capacity of the interface and the thresholds for minimum order requirements. When the customer requests one of the following it is required to order sufficient lines for FGA, and sufficient BHMCs for FGB, FGC and FGD to satisfy the minimum capacity. When the customer requests more than one of the same Interface Arrangements, it is required to meet the total minimum capacity of all such Interface Arrangements, e.g., a customer with two DS1 Interface Arrangements is required to have a minimum of 34 DS1 circuits in place to meet the minimum requirements.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.4 Switched Access Minimum Capacity Requirements (Cont'd)

5.4.4 (Cont'd)

<u>Interface Arrangement</u>	<u>Interface Type</u>	<u>Interface Name</u>	<u>Total Capacity (Circuits)</u>	<u>Minimum Capacity (Circuits)</u>
1	Voice Frequency	2-Wire	1	NA
2	Voice Frequency	4-Wire	1	NA
3	Analog	Group	12	9
4	Analog	Supergroup	60	42
5	Analog	Mastergroup	600	420
6	Digital	DS1	24	17
7	Digital	DS1C	48	34
8				
9	Digital	DS3	672	471
10	Digital	FT3C	1344	941

5.4.5 When Switched Access, provided via an interface with a minimum requirement is disconnected and the disconnect causes the in-service capacity to fall below the minimum requirement, the minimum monthly charges as set forth in Section 6, following, will be assessed based on the minimum capacity requirements.

ACCESS SERVICE

5. Access Service Ordering (Cont'd)

5.4 Switched Access Minimum Capacity Requirements (Cont'd)

5.4.5 (Cont'd)

Example:

A customer requests Switched Access capacity to be provided via a DS1 interface. Since the minimum capacity of the DS1 interface is 17 circuits, minimum monthly charges (MMCs) will apply to no less than 17 circuits. If sufficient capacity is not retained to justify the use of 17 circuits, actual Switched Access billing will be 17 times the MMC or actual usage charges, whichever is greater.

ACCESS SERVICE

6. Switched Access Service

6.1 General

The Telephone Company adopts Section 6 and the associated rates in Section 20 of Northwest Fiber, LLC Tariff FCC No. 1 (the Telephone Company's interstate access tariff) effective as of July 1, 2012, and any successive issues thereto. This tariff was filed with the FCC on behalf of the Telephone Company and affiliated companies.

Below is the website link to FCC Tariff No. 1. The rates are located in Section 20.1, Rate Group 1.

<http://www.ziPLYfiber.com/tariffs>

This tariff includes all the rules, regulations, rates and charges under which interstate access services will be offered. Exceptions to this adoption of the tariff schedules, if any, are as follows and in Section 20.3.

6.2 Language Exceptions:

(None)

ACCESS SERVICE

7. <u>Reserved for Future Use</u>	
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ACCESS SERVICE

8. Special Federal Government Access Services

8.1 General

This section covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security.

Services for command and control communications and for national security and emergency preparedness sometimes require short notice and short duration service provisions. These provisions are especially needed to meet presidential requirements or in response to natural, man-made or declared emergencies. Requirements of this type cannot be forecasted and are usually needed for a relatively short period. The provision of service under these conditions may require the availability of facilities, such as portable microwave equipment, which are provided on a temporary basis by the Telephone Company or customer.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

- State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").
- Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)
- Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.
- The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.
- Political unrest in foreign countries which affect the national interest.
- Presidential service.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.3 Intervals to Provide Service

Services provided under the provisions of this section of the tariff are provided on an individual case basis. Therefore, orders for such service shall be placed under the Negotiated Interval provisions set forth in Section 5.2.2 preceding.

8.4 Safeguarding of Service

8.4.1 Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service.

In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

8.5 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their services to the Federal Government.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for these services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

8.6.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point secure communications on two-wire or four-wire metallic facilities between an IC premises and an end user's premises. Services are conditioned as follows:

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type 1 (Cont'd)

15 dB at 10 Hz
13 dB at 100 Hz
9 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB at 50,000 Hz

Additional conditioning (available in one or two directions on four-wire facilities only) to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz
± 1 dB between 1,000 Hz and 40,000 Hz
± 2 dB between 10 Hz and 50,000 Hz
(+ means more loss)

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type 1 (Cont'd)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises on an end user's premises and an end user's premises. Services are conditioned as follows:

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(2) Voice Grade Secure Communications Type II (Cont'd)

G-I Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises switch and an end user's premises. Services are conditioned as follows:

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(3) Voice Grade Secure Communications Type III (Cont'd)

G-2 Conditioning - The absolute loss with respect to frequency and the net loss variation from the switch to an end user's premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from an end user's premises to the switch shall be the same as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two IC premises switches. Services are conditioned as follows:

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(4) Voice Grade Secure Communications Type IV (Cont'd)

G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(B) Wideband Digital Special Access Service

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(B) Wideband Digital Special Access Service (Cont'd)

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum signal element width of twenty microseconds at a rate of 50,000 bits per second.

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System

- (1) The TSP System is a service that provides for the priority provisioning and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services. The TSP system applies only to NSEP services, includes both Switched and Special Access Services and provides the Telephone Company with a guide to the sequence in which services are to be provisioned and/or restore

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(1) (Cont'd)

All Access Services that can be identified by a unique circuit identifier, can be provisioned for NSEP service by the Telephone Company.

The rates and charges associated with a customer subscribing to the TSP System are as specified in Section 20.

- (2) The Executive Office of the President, through the TSP Program Office, is empowered with the authority to receive, evaluate and process requests for NSEP services. The TSP Program Office makes the priority level assignments and issues the TSP authorization code reflecting the priority assignment associated with a request. The customer provides the TSP authorization code, in addition to all the other details necessary to complete the order (ASR), to the Telephone Company to obtain TSP System Service.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(2) (Cont'd)

The TSP authorization code, assigned on a per ASR basis, consists of a 12-character field, a nine-character control ID followed by a dash and a two-character field specifying the priority level assignment. Its structure is as follows:

TSPxxxxxn-yy

The "x"s represent a sequence of numbers unique to each TSP authorization code and the "n" is a one character alphanumeric check digit. The first "y" contains the provisioning priority level assignment and the second "y" contains the restoration priority level assignment.

- (3) If the customer requires service within a shorter time interval than the Telephone Company can provide, and the requested service qualifies for NSEP, the customer may elect to invoke NSEP treatment and obtain the appropriate

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(3) (Cont'd)

provisioning priority assignment from the TSP Program Office. Acceptable assignment code values are: E, 1, 2, 3, 4, 5 or 0.

The assignment of the value "E" denotes Emergency Provisioning and implies the service has the most critical provisioning requirements and the Telephone Company will respond accordingly. The Telephone Company will take immediate action to provide the requested service at the earliest possible date. Rates and charges associated with "E" provisioning are specified in Section 20.

The assignment values of 1, 2, 3, 4 and 5 are treated as essential service priorities and the Telephone Company will adjust its available resources to meet the customer's requested due date. Rates and charges associated with

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(3) (Cont'd)

invoking this priority treatment are specified in Section 20. The value "0" implies no provisioning priority.

- (4) A TSP authorization code for restoration priority classifies the service as being among the nation's most important NSEP telecommunication services. The Telephone Company will restore these services before service without restoration priority assignments in the order of priority assignments. Acceptable values are: 1, 2, 3, 4, 5 or 0 with the value "1" being the highest priority.

When the Telephone Company recognizes a TSP as being out of service, unusable or receives a trouble report, available resources will be dispatched to restore the service as quickly as practicable. A priority value of 1, 2 or 3

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(4) (Cont'd)

requires dispatch outside normal business hours if necessary to restore the service. A priority value of 4 or 5 only requires dispatch outside of normal business hours if the next business day is more than 24 hours away. If the value "0" has been assigned then no restoration priority is applicable to this service.

The minimum period for service is one month.

(5) The obligations of the customer are as follows:

- (a) In all instances, the customer is responsible for obtaining the appropriate TSP authorization code and providing that code to the Telephone Company.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(5) (Cont'd)

- (b) The TSP System service customer must also be the customer for the Access Service with which TSP service is associated. Only the customer or its authorized agent as indicated in a letter of agency on file with the Telephone Company is allowed to order TSP System service.
- (c) All points of a multipoint service configuration must have the same restoration priority assignment and must satisfy the requirements of that assignment.
- (d) In obtaining TSP System service, the customer consents to the release of certain information by the Telephone Company to the federal government in order to maintain

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(5) (Cont'd)

(d) (Cont'd)

and administer the TSP System. Such information includes: the customer's name, telephone number and mailing address, the TSP authorization code and the circuit or service ID number associated with the NSEP service.

(e) The Telephone Company will attempt to notify the customer of expected charges. The customer, when invoking NSEP treatment, recognizes that quoting charges and obtaining permission beforehand may not be practicable and may cause unnecessary delays and, as a result, grants the Telephone Company the right to quote and bill charges after provisioning of the service.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(5) (Cont'd)

- (f) During certain emergencies, the customer may request TSP assignments verbally and the Telephone Company will accept such verbal notification. The customer must submit a written order (ASR) to the Telephone Company within two working days following the verbal request. If written order (ASR) is not received within two working days, all applicable rates and charges accumulated to date to provision TSP System service become immediately due and payable and the requested TSP priority is revoked.
- (g) The customer must request and justify revalidation of all priority level assignments at least every three years.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(5) (Cont'd)

(h) Additionally, the NCS Manual 3-1-1, "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual", dated July 9, 1990, prescribes specific conditions which warrant NSEP Treatment and related procedures.

(6) The obligations of the Telephone Company are as follows:

(a) The Telephone Company will allocate resources the ensure best efforts to provide NSEP services by the time required.

(b) The Telephone Company will work TSP System services in the order of their priority level assignments. The priority sequence is as follows:

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(6) (Cont'd)

(b) (Cont'd)

- Restore NSEP services assigned restoration priority 1
- Provision Emergency (E) NSEP services
- Restore NSEP services assigned restoration priority 2, 3, 4 or 5
- Provision NSEP services assigned provisioning priority 1, 2, 3, 4 or 5.

(c) The Telephone Company will work cooperatively with other providers of NSEP service only when a portion is provided by the Telephone Company to ensure "end-to-end" service.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(6) (Cont'd)

(d) Additionally, TSP System service will be provided in accordance with the guidelines set forth in NCS Handbook 3-1-2, "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" dated July 9, 1990.

(7) Rates and Charges

The following rates and charges are in addition to all other rates and charges that apply for other services offered under this tariff which operate in conjunction with the TSP System.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(7) Rates and Charges (Cont'd)

(a) Establishment of TSP System Service

The establishment of TSP System Service is a nonrecurring charge (NRC) specified below which applies when an Access Service is ordered with provisioning and/or restoration priority. If both are ordered at the same time, only one NRC is applicable. The NRC is also applicable for orders changing priority levels.

The rate for Establishment of TSP System Service is as set forth in Section 20.

(b) Provisioning Priority

There are two basic levels of provisioning priority, Emergency (provisioning priority "E") and Essential (provisioning priority 1, 2, 3, 4 or 5).

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(7) Rates and Charges (Cont'd)

(b) Provisioning Priority (Cont'd)

(1) Emergency Provisioning

The Telephone Company will take immediate action to provide the requested service at the earliest possible date. The rates and charges will apply as set forth in Section 10, Special Construction.

(2) Essential Provisioning

The Telephone Company will adjust its available resources to meet the customer's requested due date. The rates and charges will apply as set forth in Section 5.2.2(D).

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.1 Type and Description (Cont'd)

(C) Telecommunications Service Priority (TSP) System (Cont'd)

(7) Rates and Charges (Cont'd)

(c) Restoration Priority

Restoration Priority is a monthly rate per circuit for the ongoing administration and maintenance of the TSP System. This monthly rate only applies when a restoration priority code (1, 2, 4 or 5) is specified in position 12 of the authorization code.

The rate for Restoration Priority is as set forth in Section 20.

8.6.2 Mileage Application

Mileage, when used for rate application between two customer premises, shall be determined by the V and H Coordinates Method as set forth in Section 17 of this tariff and administered as set forth in National Exchange Carrier Association's Tariff FCC No.4.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.3 Rates and Charges

(A) Voice Grade Special Access Service

The provision of T-3 and G conditioned services contemplates station and tandem switching operations, using customer provided equipment, as well as Special Access Service. Separate narrowband or voice grade services, where required by the customer provided equipment or switching operation, are furnished in accordance with the applicable sections of this tariff.

(B) Wideband Digital Special Access Service

The rates and charges for Wideband Digital Special Access Service are as set forth in Section 20.

(C) Move Charges

- (1) When service without a termination charge associated with it, as set forth in (A) and (B) preceding, is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.3 Rates and Charges (Cont'd)

(C) Move Charges (Cont'd)

- (2) When service with a termination charge associated with it, as set forth in (A) and (B) preceding, is moved and is reinstalled at a new location, the customer may elect:
- to pay the unexpired portion of the termination charge for the service, if any, with the application of nonrecurring charge and the establishment of a new termination charge for such service at the new location, or
 - to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

ACCESS SERVICE

8. Special Federal Government Access Services (Cont'd)

8.6 Service Offerings to the Federal Government (Cont'd)

8.6.3 Rates and Charges (Cont'd)

(C) Move Charges (Cont'd)

Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

ACCESS SERVICE

9. Miscellaneous Services

9.1 General

Miscellaneous Services available to the customer include the following:

- (A) Additional Labor (i.e., Overtime Installation, Overtime Repair, Additional Installation Testing, Standby, Testing and Maintenance with Other Telephone Companies)
- (B) Maintenance of Service Charge
- (C) Additional Testing
- (D) Provision of Access Services Billing Information

These services are described in detail as set forth in 9.2 through 9.5 following.

9.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in (A) through (E) following. The Telephone Company will notify the customer that Additional Labor charges as set forth in Section 20 following will apply before any Additional Labor is undertaken. Additional Labor charges will also apply if the requirement for the Additional Labor is the fault of the customer or parties on whose behalf it acts.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.2 Additional Labor (Cont'd)

(A) Overtime Installation

Overtime installation is that Telephone Company installation effort outside the business day. Overtime rates will apply anytime outside the business day and all day Saturday. Premium rates will apply all day Sunday and on all Telephone Company approved holidays. For applicable holidays in each jurisdiction contact Issuing Carrier identified on the Title Page 2 preceding.

(B) Overtime Repair

Overtime repair is that Telephone Company maintenance effort performed outside the business day. Overtime rates will apply anytime outside the business day and all day Saturday. Premium time rates will apply all day Sunday and on all Telephone Company approved holidays.

(C) Additional Installation Testing

Additional installation testing is that testing performed by the Telephone Company at the time of installation which is in addition to normal pre-service and acceptance testing.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.2 Additional Labor (Cont'd)

(D) Standby

Standby includes all time in excess of one-half (1/2) hour during which Telephone Company personnel are available to make coordinated tests on a given service. The standby charge applies only when Telephone Company personnel must wait more than 30 minutes beyond a prearranged, mutually agreed appointment time. Standby charges will cease when testing begins, or when Telephone Company personnel are released from the standby requirement, or when testing is rescheduled for a later date or time. Charges will not be applicable if Telephone Company personnel cause the delay.

(E) Testing and Maintenance with Other Telephone Companies

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

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.2 Additional Labor (Cont'd)

(F) Charges for Additional Labor

The charges for Additional Labor are as set forth in Section 20.

9.3 Maintenance of Service Charge

- (A) When a customer reports trouble to the Telephone Company for clearance, the customer shall be responsible for payment of a Maintenance of Service Charge when Telephone Company personnel are dispatched to the customer's location and no trouble is found in the Telephone Company's facilities. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

In this case, or in (B) following, no credit allowance will be applicable for the interruption involved, unless the trouble is found in the Telephone Company's facilities.

- (B) The customer shall be responsible for payment of a Maintenance of Service Charge when the Telephone Company dispatches personnel to the customer's

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.3 Maintenance of Service Charge (Cont'd)

(B) (Cont'd)

location and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

(C) The Maintenance of Service Charge time period will begin when Telephone Company personnel are dispatched. This will only include the actual time required to reach the customer's location and perform an investigation. The time period will end when the investigation is finished. The labor charge as set forth in Section 20 following will apply to Maintenance of Service at the appropriate Basic, Overtime or Premium rate. These charges apply whether the trouble is in the equipment of communications systems provided by other than the Telephone Company, or in detariffed CPE provided by the Telephone Company.

9.4 Additional Testing

The Telephone Company will perform acceptance testing as specified in Sections 6 and 7.1.5 preceding to insure that Access Services ordered by the customer are functioning properly, prior to turning over such services to the customer. In addition,

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

the Telephone Company will perform ongoing tests as specified in Sections 6 preceding, respectively, to assure the continued satisfactory performance of Switched Access Services ordered by the customer.

Testing offered under this section of the tariff is in addition to those tests described above and will be provided, when requested by the customer, at an additional charge.

Testing is provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in 9.4(A)(5) and 9.4(B)(2) following, to allow a customer to request Telephone Company personnel to perform testing at the customer designated premises or the end user premises.

Additional testing is provided on a scheduled or nonscheduled basis. Scheduled testing shall be performed on a predetermined time basis to allow for cost efficient utilization of Telephone Company and customer resources. Scheduled testing should be based on a one year period. Nonscheduled tests are performed by the Telephone Company on a request-by-request basis, not in conjunction with any fixed schedule.

The offering of testing under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A), (B), and (C) following.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing

Testing for Switched Access is comprised of (a) tests which are performed during the installation of Switched Access (i.e., acceptance tests) and (b) tests, which are performed after acceptance of such Switched Access by a customer (i.e., in-service tests).

These tests are performed on a scheduled or nonscheduled basis, and may be conducted on an automatic, cooperative, or manual basis, as defined in (1), (2), (3), (4), and (5) following.

(1) Additional Cooperative Acceptance Testing

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

Additional Cooperative Acceptance Testing may apply when the customer requests additional tests not specified Section 6 preceding.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(1) Additional Cooperative Acceptance Testing (Cont'd)

The labor charges as set forth in Section 20 following will apply to Additional Cooperative Acceptance testing at the appropriate Basic, Overtime, or Premium rate.

(2) Automatic Scheduled Testing

Automatic Scheduled Testing (AST) of FGB, FGC, and FGD, is provided, as specified in Section 6 preceding, where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. AST charges will apply when such testing is requested on a more frequent basis than is provided for in accordance with the Telephone Company's Central Office Maintenance Planning System (COMPS). The customer may specify a more frequent schedule of tests at least sixty days prior to the start of the prescribed schedule. Trunks from a Telephone Company digital switch, to a customer digital switch, utilizing

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(2) Automatic Scheduled Testing (Cont'd)

digital facilities, are excluded from mandatory routine testing. The rates, as set forth in Section 20 following, will apply to additional AST.

The Telephone Company will provide a monthly AST report that lists the trunks with each Central Office access group that failed to meet established requirements. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis. A monthly report that lists the test results will be provided to the customer.

(3) Additional Cooperative Scheduled Testing

Additional Cooperative Scheduled Testing (ACST) of FGA, FGB, FGC, and FGD occurs when the Telephone Company provides a technician at its office(s) and the customer provides a technician at its customer designated premise, with suitable test equipment to perform the required tests. ACST charges will apply when loss/noise/balance testing

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(3) Additional Cooperative Scheduled Testing (Cont'd)

or gain-slope testing is requested on a more frequent basis than is provided for in accordance with the Telephone Company's Central Office Maintenance Planning System (COMPS). ACST charges also apply when additional tests are requested for FGA, FGB, FGC, or FGD that are not specified in Section 6 preceding, respectively. The customer may specify a more frequent schedule of tests sixty days prior to the start of the prescribed schedule. The rates, as set forth in Section 20 following, will apply for additional ACST.

The Telephone Company will provide, on a quarterly basis, an ACST report that lists the test results and the number of trunks that passed or failed. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(4) Additional Manual Scheduled Testing

Additional Manual Scheduled Testing (AMST) of FGA, FGB, FGC or FGD occurs when the Telephone Company provides a technician at its office(s) and at the customer designated premise. AMST charges will apply when loss/noise/balance testing or gain-slope testing is requested on a more frequent basis than is provided for in accordance with the Telephone Company's Central Office Maintenance Planning System (COMPS). AMST charges also apply when additional tests are requested for FGA, FGB, FGC or FGD that are not specified in Section 6 preceding respectively. The customer may specify a more frequent schedule of tests sixty days prior to the start of the prescribed schedule.

The rates as set forth in Section 20 following will apply to additional AMST.

The Telephone Company will provide, on a quarterly basis, an AMST report that lists the test results and the number of trunks that passed or failed. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(5) Nonscheduled Testing

Nonscheduled Testing (NST) will be performed "on demand" which results in the measurement of Switched Access. NST charges will apply only when testing is requested more frequently than is provided for in accordance with COMPS, or when a specific test is requested that is not normally performed. Tests for Switched Access, which are normally performed are contained in Section 6 preceding. Nonscheduled Testing (NST) of Switched Access may consist of the following testing arrangements:

- the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent (automatic testing), or
- the Telephone Company provides a technician at its office(s) and the customer provides a technician at its customer designated premise with suitable test equipment to perform the required tests (cooperative testing), or

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(5) Nonscheduled Testing (Cont'd)

- the Telephone Company provides a technician at its office(s), and at the customer designated premise or end user premises with suitable test equipment to perform the required tests (manual testing).

Nonscheduled Tests may consist of any tests which the customer may require. The rates as set forth in Section 20 following will apply to Nonscheduled Automatic Testing. The labor charges as set forth in Section 20 will apply to Nonscheduled Cooperative and Manual Services Testing at the appropriate Basic, Overtime, or Premium rate.

(6) Obligations of the Customer

- (a) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support AST as set forth in 9.4(A)(2) preceding or NST as set forth in 9.4(A)(5) preceding.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.4 Additional Testing (Cont'd)

(A) Switched Access Testing (Cont'd)

(6) Obligations of the Customer (Cont'd)

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

(B) Reserved for Future Use⁵

⁵ Service previously found in this section is now detariffed and deregulated.

ACCESS SERVICE

9.	<u>Miscellaneous Services</u> (Cont'd)	
	9.4 <u>Additional Testing</u> (Cont'd)	
	(C) <u>Rates and Charges</u>	
	20.	Rates and charges for Additional Testing are as set forth in Section

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.5 Provision of Access Services Billing Information

The customer will receive its monthly bills in paper format. At the option of the customer, its monthly bills may be provided on magnetic tape. When call detail is transmitted via magnetic tape, a charge will apply on a per tape and per record of detail entered basis. The provision of the bills on magnetic tape will be at an additional charge to the customer set forth in Section 20.

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.6 Presubscription

Presubscription is a procedure whereby an end user⁶ may select and designate to the Telephone Company an Interexchange Carrier (IC) to access, without dialing an access code, for intraLATA and interLATA intrastate calls. The end user may select one (1) IC for both intraLATA and interLATA calls or they may select one (1) IC for their interLATA calls and a different IC or the Telephone Company for IntraLATA calls. The selected ICs are referred to as the end user's primary ICs. The presubscription procedure also allows the agent⁷ representing a pay telephone to select and designate to the Telephone Company ICs to access, without dialing an access code, for intraLATA and interLATA intrastate calls. Presubscription is available only to End Users served by end offices that have been converted to provide Feature Group D Switched Access Service.

InterLATA presubscription of residence and business lines and/or trunks is furnished in accordance with the detailed provisions of the Federal Communications Commission's Allocation Plan. The plan with all appendices is available for inspection at the main building of the Federal Communications Commission in the Public Reference Room of the Tariff Division. Copies may be obtained from the Federal Communications Commission's Commercial Contractor.

⁶ For purposes of this sections, the term end user also includes Alternative local exchange carriers (ALECs) that are certified to resell local exchange telecommunications service.

⁷ An agent is the person or persons who have the legal authority to give permission to for the placement of pay telephone on their premises and who control access to or usage of the pay telephone

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.6 Presubscription (Cont'd)

Should a customer want to use services of another IC, it will be necessary for the customer to dial the necessary access code(s) (i.e., 101XXXX) to reach that IC's service(s)

Principal provisions of the Allocation Plans and associated Telephone Company provisions are as follows:

(A) End User and Agent Notification, Equal Access Process and Interexchange Carrier End User and Agent Lists.

An end user or agent must select only one IC as a primary IC. Multi-line hunt group end users or agents have two options in selecting a primary IC. Under option one, an end user or agent may select one IC for all its lines. Under option two, an end user or agent may indicate a desire to designate specific lines to different ICs. When option two is selected, the end user or agent must give notice to the Telephone Company, which will allow a line-by-line designation of ICs

ACCESS SERVICE

9. Miscellaneous Services (Cont'd)

9.6 Presubscription (Cont'd)

(A) End User and Agent Notification, Equal Access Process and Interexchange Carrier End User and Agent Lists (Cont'd)

An IC obtaining service commitments from end users and agents directly must provide an IC End User and Agents List to the Telephone Company accompanied by a document certifying that the IC does have end user and agent signed statements, or has taken steps to obtain signed letters of agency, containing the required information from each end user and agent on the list. The Telephone Company will process all End User and Agent list that are received. This choice is considered a valid selection and the nonrecurring charge as set forth in Section 20.6.4 following will apply to any subsequent change made after the equal access conversion date.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(A) End User and Agent Notification, Equal Access Process and Interexchange Carrier End User and Agent Lists (Cont'd)

Customers obtaining service from the Telephone Company on or after the date of intraLATA equal access conversion who do not make an affirmative selection, will have no "1"+ capability until they make a selection.

(B) Presubscription Charge Application

New end users or agents, who will be served by end offices equipped with equal access, will be asked to select a primary IC for both intraLATA and interLATA calls or select one (1) IC for their interLATA calls at the time they place an order with the Telephone Company for Telephone Exchange Service.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(B) Presubscription Charge Application (Cont'd)

New end users or agents will be offered a list of participating carriers to aid in their selection of a primary interLATA and intraLATA ICs.

After the end user's or agent's initial primary IC selection, for any change thereafter, a charge, as set forth in Section 20.6.4 following applies.

End users may designate that they do not want a primary interLATA or intraLATA IC and this choice is referred to as "No-PIC". This choice is considered a valid selection and a Presubscription Charge will apply to any subsequent change. The "No-PIC" designation is not available to pay telephone agents.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(B) Presubscription Charge Application (Cont'd)

Should an IC elect to discontinue Feature Group D service in an end office converting to equal access prior to the conversion date, or within two years after the introduction of Feature

Group D in the converted end office, the IC shall contact in writing all end users and agents who selected, or were allocated to, the canceling IC as their designated IC. Such written notification must advise these end users or agents of the cancellation, request that the end users or agents select a new IC, and state that the canceling IC will pay the change charge.

For a period of two years following the IC's discontinuance of Feature Group D service, the Telephone Company will bill the canceling IC the change charge for each end user and agent that is currently designated to the IC at the time of discontinuance.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(B) Presubscription Charge Application (Cont'd)

The Telephone Company will make conversion changes in the end user's or agents interLATA and intraLATA PIC assignments pursuant to an IC provided list of customers, accepted by the Telephone Company under the conditions set forth in (A) preceding. Should an end user or agent dispute authorization of change in PIC assignments, the Telephone Company may, in order to resolve the dispute, require that the IC requesting the change submit a signed letter of agency. If the IC cannot produce a customer signed letter of agency from the end user or agent, and the Telephone Company resolves the dispute in favor of the end user or agent, the IC will be billed two nonrecurring charges: a presubscription change charge as set forth in Section 20.6.4 following for the change to the disputed IC and an unauthorized presubscription change charge as specified in Section 20.6.4 following to restore the end user's or agent's prior IC assignment. If the IC produces the required letter of agency within 30 days of the Telephone Company's request, the end user or agent will be billed two presubscription change charges as specified in Section 20.6.4 following in lieu of the IC. Charges are only applicable if a change in an end user's or agent's IC selection has actually been implemented in the switch.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(B) Presubscription Charge Application (Cont'd)

The Presubscription Change Charge is a nonrecurring charge that varies based on the type of PIC Change Order that is submitted. Rates for manually submitted orders will typically be higher than rates for electronically submitted orders. When a customer requests only an interLATA PIC Change, the interLATA Presubscription Change Charge found in Northwest Fiber, LLC Tariff FCC No.1 will apply. When a customer requests only an intraLATA PIC Change, the charge from this tariff will apply. When a customer requests both interLATA and intraLATA Presubscription changes to the same phone number on the same order, a lower rate applies.

The rates for Presubscription Change Charges are found in Section 20.6.4 following.

(C) IC CIC Consolidation

IC requests to consolidate multiple CICs (Carrier Identification Codes) will be subject to an IC CIC Consolidation Charge. This charge is only assessed when all lines or trunks associated with the former CIC(s) are changed on a one-time realignment basis

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.7 Presubscription (Cont'd)

(C) Presubscription Charge Application (Cont'd)

within the Telephone Company's databases at a nationwide level to a single existing CIC. Requests for an IC CIC Consolidation must be provided to the Telephone Company in writing, but no ASR Ordering Charge is applicable for this request.

The IC CIC Consolidation charge does not apply to normal PIC change activity, whereby carrier selection is changed and no consolidation of CICs occurs.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(D) IC CIC Consolidation (Cont'd)

The Telephone Company will negotiate a due date for an IC CIC Consolidation with the IC. It is the sole responsibility of the IC to notify affected end users of the change.

If an IC elects to change a CIC due to surrendering a CIC to the North American Numbering Plan (NANP) Administrator for reassignment, the IC CIC Consolidation Charge will be waived. The waiver is applied only when the IC surrenders the CIC on a nationwide basis. Additionally, the CIC must be relinquished within ninety (90) days from the completed conversion date. Confirmation of relinquished code(s) must be in writing and come from the NANP Administrator.

(E) Liability of the Telephone Company

- (a) If through the fault of the Telephone Company, the end user or agent is not subscribed to its chosen PIC, the nonrecurring charges in Section 20.6.4 do not apply to reassign the end user or agent to his chosen PIC.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(E) Liability of the Telephone Company (Cont'd)

- (b) The IC shall indemnify, protect and save harmless the Telephone Company from and against any and all loss, liability, damages and expense arising out of any demand, claim, suit or judgment for damages which may arise out of the Telephone Company's supplying of listing information, services or records.
- (c) The Telephone Company and the IC agree that the mutual objective of the parties is to conduct their respective businesses to avoid confusion by the end users and agents as to the separate and independent identity of the respective companies and their services. Neither the Telephone Company nor the IC shall make any representation to end users, the public, prospective advertisers, expressed or implied, written or oral, which would imply that the IC is the same as, a part of, or associated with the Telephone Company.

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(E) Liability of the Telephone Company (Cont'd)

- (d) This service may be terminated by either the Telephone Company or the IC upon thirty (30) days' written notice. The Telephone Company reserves the right to terminate this service immediately upon written notice if the IC misuses the list information. Performance by the Telephone Company shall be excused in the event of a strike, riot, act of God or any other cause beyond the reasonable control of the Telephone Company.

(F) IC Desired Due Date (ICDDD) for PIC Installation

An IC may request a desired due date for PIC installation for a specific, single end user or agent acting on behalf of an end user post equal access conversion. This ICDDD is a mutually agreed upon negotiated due date, determined to be between 3 and 45 business days from the date of receipt of the order. The IC must coordinate the ICDDD with the Telephone Company prior to sending in the first order

ACCESS SERVICE

9. MISCELLANEOUS SERVICES (Cont'd)

9.6 Presubscription (Cont'd)

(F) IC Desired Due Date (ICDDD) for PIC Installation (Cont'd)

The ICDDD does not apply to routine lists provided by the IC, as set forth in 11.3.9(A). The Nonrecurring Charge for Primary Interexchange Carrier, as set forth in Section 20.6.4 following applies to each line converted to the IC requesting ICDDD. This charge will be billed to the IC's end user customer.

ACCESS SERVICE

10. Special Construction

10.1 General

This section contains the regulations, rates and charges applicable for Special Construction of Telephone Company facilities which are used to provide services offered under this tariff.

When Special Construction is required, the provisions of this section apply in addition to regulations, rates and charges set forth in other sections of this tariff.

10.1.1 Conditions Requiring Special Construction

Special Construction is required when facilities are not available to meet a customer's order and one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed at the customer's request;
- The customer requests that services be furnished using a type of facility, or via a route, other than that which the Telephone Company would otherwise utilize in furnishing the requested service;
- The customer requests the construction of more facilities than is required to satisfy its order for service;

ACCESS SERVICE

10. Special Construction (Cont'd)

10.1 General (Cont'd)

10.1.1 Conditions Requiring Special Construction (Cont'd)

- The customer requests construction to expedited resulting in added cost to the Telephone Company;
- The customer requests that temporary facilities be constructed until permanent facilities are available.

10.1.2 Filing of Charges

Charges and liabilities for Special Construction will be applied as set forth in Section 20 following.

When Special Construction is required under conditions that preclude the filing of charges in full accordance with the State of Montana's Rules and Regulations (e.g., unavailability of cost details, short notice service date):

- (A) Notification will be made to the State of Montana that Special Construction will be provided.
- (B) After charges have been filed and have become effective, they will apply from the date that the Special Construction was provided.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.1 General (Cont'd)

10.1.2 Filing of Charges (Cont'd)

- (C) Charges and/or Maximum Termination Liabilities for Special Construction of facilities provided by a Connecting Carrier are developed by the Connecting Carrier and are filed by the Telephone Company in this tariff on its behalf.
- (D) Regulations and charges for Special Construction of facilities provided by Other Participating Carriers are filed in their tariffs.

10.1.3 Ownership of Facilities

The Telephone Company retains ownership of all specially constructed facilities, except for those facilities constructed by connecting companies or carriers, even though the customer may be required to pay Special Construction charges.

10.1.4 Interval to Provide Service

Based on available information and the type of service ordered, the Telephone Company will establish a scheduled date for the installation of necessary facilities. The date will be established on an Individual Case Basis

ACCESS SERVICE

10. Special Construction (Cont'd)

10.1 General (Cont'd)

10.1.4 Interval to Provide Service (Cont'd)

and provided to the customer. The Telephone Company will make every reasonable effort to assure that the date is met. However, circumstances beyond the Telephone Company's control (e.g., backorder of components) may force a reschedule, and a new completion date will be established with the customer when appropriate.

10.1.5 Special Construction Involving Interstate and Intrastate Facilities

When Special Construction involves facilities used to provide both interstate and intrastate services, charges for the portion of the construction used to provide intrastate service shall be in accordance with this tariff. Charges for the portion of the construction used to provide interstate service shall be in accordance with the appropriate interstate tariff.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments

10.2.1 General

This section describes the various charges and liabilities that apply when the Telephone Company provides Special Construction of facilities, as outlined in 10.1.1 preceding, in accordance with a customer's specific request. Once the customer is notified of all charges and liabilities, the customer must provide the Telephone Company with written approval prior to the start of construction. If more than one condition requiring Special Construction is involved, charges for each condition apply (see Conditions Requiring Special Construction, 10.1.1 preceding).

10.2.2 Payment of Charges

Payment is due upon presentation of a bill for the specially constructed facilities.

10.2.3 Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued. Monthly charges will be billed one month in advance.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.4 Partial Payments

The Telephone Company will require a customer which has a proven history of late payments to the Telephone Company, or does not have established credit, to make a partial payment for the portion of the estimated cost of the Special Construction for which the customer is subject to a nonrecurring charge. Partial payments will be requested as costs are incurred and will be credited to the customer's account. Partial payments will not exceed the total nonrecurring charge to the customer for the Special Construction.

10.2.5 Development of Liabilities and Charges

The customer has the option of accepting the liabilities and charges based on estimated or actual costs. Estimated costs will be used unless the customer notifies the Telephone Company of the selection of the actual cost option in writing prior to the start of Special Construction.

Under the estimated cost option, Special Construction liabilities and charges are developed based on estimated costs and will be filed in this tariff.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.5 Development of Liabilities and Charges (Cont'd)

Under the actual cost option, if all actual costs are not available prior to the in-service date of the facilities, estimated Special Construction charges will be filed in this tariff. As soon as the actual costs, including costs of maintaining and filing these costs, are subsequently determined, the estimated charges will be adjusted to reflect the actual costs. The filed charges will then reflect actual costs existing at the time the facilities are provided.

10.2.6 Types of Contingent Liability

Depending on the specifics associated with each individual case the following Maximum Termination Liability may be applicable for Special Construction.

(A) Maximum Termination Liability

A MTL has two components, an amount and a specified period of time.

The amount is equal to all nonrecoverable costs less the net salvage value (e.g., depreciation, return, income tax associated with the specially

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.61 Types of Contingent Liability (Cont'd)

(A) Maximum Termination Liability (Cont'd)

constructed facilities). The amount will be amortized over the average account life of the specially constructed facilities. The standard liability period is the average account life of the Specially Constructed facilities expressed in years.

At the customer's option, an optional liability period shorter than the average account life may be established. If the customer chooses an optional liability period, the MTL amortization schedule will not change. The remaining MTL amount for the period between the expiration of the optional liability period and the expiration of the amortization schedule will be due as a lump sum payment (LS) at the time the optional liability period expires unless the case of Special Construction is extended.

Prior to the expiration of an optional liability period, the customer has the option to (A) extend the use of the specially constructed facility establishing a

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.6 Types of Contingent Liability (Cont'd)

(A) Maximum Termination Liability (Cont'd)

new liability period, or (B) terminate the case of Special Construction and pay the lump sum payment.

The Telephone Company will notify the customer six months in advance of the expiration date of the optional liability period. The customer must provide the Telephone Company with written notification of its intentions to be received one month prior to expiration of the optional liability period. Failure to do so, and payment of the next month's charges, will result in extension of the case of the Special Construction and the establishment of a new liability period equal to the remaining amortization period. A Case Preparation Charge will always apply if the Special Construction case is extended.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges

Two categories of charges may be applicable for Special Construction. These charges are nonrecurring charges and recurring charges. These categories are described below.

(A) Nonrecurring Charges

One or more of the following nonrecurring charges may apply for each case of Special Construction: case preparation, termination, cancellation, expediting the construction, or optional payment charges.

(1) Case Preparation Charge

The charge for case preparation includes the administrative expense associated with preparing and listing the charges in the tariff. This expense includes such items as: (a) tariff preparation and processing and (b) gross receipts and surcharge taxes.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(2) Termination Charge

A Termination Charge applies when, at the customer's request, services provided on specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period.

The charge reflects the unamortized portion of the nonrecoverable cost at the time of termination of the specially constructed facility adjusted for tax effects, for net salvage and for possible reuse. Administrative costs associated with the specific case of Special Construction and any cost for restoring a location to its original condition are also included. Termination Charges will never exceed the MTL.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(3) Cancellation Charge

If the customer cancels an order with which Special Construction is associated prior to the in-service date of the facility, a Cancellation Charge will apply. The charge will include all nonrecoverable costs less the net salvage value incurred by the Telephone Company up to and including the time of cancellation.

(4) Expediting Charge

An Expediting Charge applies when a customer requests that Special Construction be completed on an expedited basis. The charge is equal to the difference in the estimated cost of construction on an expedited basis and construction without expediting.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge

The customer may elect to pay an Optional Payment Charge when it requests Special Construction of facilities utilizing (1) a type of facilities or (2) a route other than that which the Telephone Company would otherwise utilize in furnishing the requested service. Payment of this charge will result in a lower recurring charge for the Special Construction. This election must be made in writing, before Special Construction starts.

If this election is coupled with the actual cost option, the Optional Payment Charge will reflect the actual cost of the specially constructed facilities.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge

This charge is equal to the excess installed cost or the total nonrecoverable cost, whichever is less (based on estimated or actual costs as elected by the customer).

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

Example 1:

Total Installed Cost	\$ 30,000
Nonrecoverable Cost	20,000
Normal Installed Cost	17,000
Total Installed Cost	30,000
Minus Normal Installed Cost	17,000
Equals Excess Installed Cost	13,000
Optional Payment Charge	13,000
Nonrecoverable Cost	20,000
Minus Optional Payment Charge	13,000
Equals Investment for MTL	
Computation	7,000
Remaining Recoverable	
Excess Installed Cost	\$ 0

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

Since the total installed cost is \$30,000 and the normal installed cost would have been \$17,000, the nonrecurring charge (optional payment) is limited to the difference (i.e., \$13,000). A Maximum Termination Liability would then be established to protect the remaining nonrecoverable cost of \$7,000 which is the difference between the total nonrecoverable cost (\$20,000) and the nonrecurring charge (\$13,000). The remaining excess installed cost in this example is zero. In addition, a recurring charge will be developed as set forth in 10.2.7(B) following.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

Example 2:

Total Installed Cost	\$ 30,000
Nonrecoverable Cost	10,000
Normal Installed Cost	17,000
Total Installed Cost	30,000
Minus Normal Installed Cost	17,000
Equals Excess Installed Cost	13,000
Optional Payment Charge	10,000
Nonrecoverable Cost	10,000
Minus Optional Payment Charge	10,000
Equals Investment for MTL	
Computation	0
Remaining Recoverable	
Excess Installed Cost	\$ 3,000

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(a) Development of Optional Payment Charge (Cont'd)

The Optional Payment Charge is limited to the nonrecoverable cost. In this example the Optional Payment Charge equals the nonrecoverable cost. Therefore, there is no Maximum Termination Liability. In addition, a recurring charge will be developed as set forth in 10.2.7(B) following.

(b) Replacement Charge

If any portion of the specially constructed facilities, for which an Optional Payment Charge has been paid, requires replacement involving capital investment, a charge for replacement will apply. This charge will be in the same ratio as the

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(b) Replacement Charge (Cont'd)

initial Optional Payment Charge was to the installed cost of the specially constructed facilities. The customer will be notified in writing that the replacement is required. Replacement will not be made without the customer's order. If any portion of the facilities subject to the replacement charge fails, the service will not be restored until the customer orders the replacement.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(5) Optional Payment Charge (Cont'd)

(b) Replacement Charge (Cont'd)

Example:

Original Total Installed Cost	\$30,000
Original Optional Payment Charge	15,000
Subsequent Cost of Replacement	2,000

Original Optional Payment Charge x	
<u>Replacement Cost</u>	
Total Installed Cost	

$\frac{\$15,000 \times \$2,000}{\$30,000} = \$1,000$
--

Replacement Charge	\$ 1,000
--------------------	----------

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges

These charges apply on a monthly or annual basis for specially constructed facilities. There are three conditions for which recurring charges apply:

- When a customer requests the construction of more facilities than are necessary to provide the services currently ordered.
- When a customer requests a facility route or type other than that which the Telephone Company would utilize to provide services.
- When a customer's request results in the Telephone Company leasing transmission or other equipment from private vendors to provide a service (Lease Charge).

(1) Excess Capacity Charge

An Excess Capacity Charge applies when the customer requests more facilities be constructed than are required to satisfy the

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(1) Excess Capacity Charge (Cont'd)

customer's order for service. The charge is based on the estimated cost difference between the facilities constructed at the customer's request and the facilities actually required to meet the customer's order for service.

Example:

A customer has an immediate facilities requirement which would require a 100 pair cable but requests the installation of a 300 pair cable to allow for growth.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(1) Excess Capacity Charge (Cont'd)

Example: (Cont'd)

Total Installed Cost (300 Pair)	\$ 2,500
Estimated Annual Cost	920
Estimated Installed Cost (100 Pair)	1,000
Estimated Annual Cost	368

Excess Recurring Charge:
Annually \$920 - \$368 = \$552

Monthly \$552
12 = \$46

This charge applies until such time as the customer orders sufficient services to necessitate use of a larger size cable (e.g., 200 pair cable). At that time the recurring charge is adjusted as indicated in the following example:

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(1) Excess Capacity Charge (Cont'd)

Example: (Cont'd)

Total Installed Cost (300 Pair)	\$ 2,500
Estimated Annual Cost	920
Estimated Installed Cost (200 Pair)	1,900
Estimated Annual Cost	683

Excess Recurring Charge:
Annually \$920 - \$683 = \$237

Monthly \$237
12 = \$19.75

The charge is revised in this manner until the number of services being provided would require a 300 pair cable, at which time the Excess Capacity Charge is no longer applied. The charge would be reapplied if the number of services declined to a level which would not require a 300 pair cable.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges(Cont'd)

(1) Excess Capacity Charge (Cont'd)

Such charges will continue to apply to all facilities held in abeyance until the period of termination liability expires. If facilities are still held in abeyance after the termination liability expires, a new schedule of rates will be calculated and such rates will apply as long as facilities are held in abeyance for the customer.

(2) Charge for Route or Type Other Than Normal

When the customer requests Special Construction using a route or type of facility other than that which the Telephone Company would normally use, a recurring charge is applicable. The charge is the difference between the estimated recurring costs of the specially constructed facilities and the estimated recurring costs of the facilities the

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges(Cont'd)

(2) Charge for Route or Type Other Than Normal (Cont'd)

Telephone Company would normally use. The charge will be no greater than the recurring costs of the specially constructed facility.

- (a) If the customer elects to pay an Optional Payment Charge, the portion of the recurring charge for the excess investment covered by the optional payment excludes capital cost items (depreciation, return on investment and Federal income tax on that return). The remaining recurring expense cost items associated with the optional payment (maintenance, administration, and other taxes) are increased by a ten percent management fee and will be included in the recurring charge.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges(Cont'd)

(2) Charge for Route or Type Other Than Normal (Cont'd)

(a) (Cont'd)

The portion of any recurring charge associated with any remaining Special Construction investment will include both capital and expense costs. The ten percent management fee is not applied to this portion of the recurring charge.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(2) Charge for Route or Type Other Than Normal (Cont'd)

(a) (Cont'd)

DEVELOPMENT OF RECURRING MONTHLY CHARGE FOR OPTIONAL PAYMENTS

For example 1 see 10.2.7(A)(6)(a)

	<u>SPECIAL ROUTE OR TYPE OF SERVICES</u>			<u>NORMAL</u>
	A	B	C	D
Optional Payment				
Nonrecurring Charge For Special Const. <u>Facilities</u>		Specially Constructed Facilities Less Nonrecurring <u>Charges</u>	Existing <u>Facilities</u>	Normal Route/Type <u>Facilities</u>
	\$13,000	\$17,000		\$17,000
1. Depreciation	--	1,122		408
2. Federal Income Tax and Return	--	2,142		2,346
3. Maintenance	1,131	1,479		799
4. Administration	455	595		595
5. Other Taxes	286	37		374
6. Sub Total	1,872	--	--	--
7. 10% x Line 6	187	--	--	--
8. Totals	(A) \$ 2,059	(B) \$ 5,712	(C)	(D) \$ 4,522

A + B = \$7,771

A + B + C = \$7,771

(A + B + C) - D = \$3,249

Excess Recurring Charge: *Annually - \$3,249.00 Monthly - \$270.75

*The lower of (A+B+C)-D , or A+B.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(2) Charge for Route or Type Other Than Normal (Cont'd)
(a)(Cont'd)

DEVELOPMENT OF RECURRING MONTHLY CHARGE FOR OPTIONAL PAYMENTS

For example 2 see 10.2.7(A)(6)(a)

Route/Type	<u>SPECIAL ROUTE OR TYPE OF SERVICES</u>			<u>NORMAL</u>
	A	B	C	D
	Optional Payment Nonrecurring Charge For Special Const.	Specially Constructed Facilities Less Nonrecurring	Facilities Existing	Normal Facilities
	<u>Facilities</u> \$10,000	<u>Charges</u> \$20,000	<u>Facilities</u>	<u>Facilities</u> \$17,000
1. Depreciation	--	1,320		408
2. Federal Income Tax and Return	--	2,520		2,346
3. Maintenance	870	1,740		799
4. Administration	350	700		595
5. Other Taxes	220	440		374
6. Sub Total	1,440	--	--	--
7. 10% x Line 6	144	--	--	--
8. Totals	(A) \$ 1,584	(B) \$ 6,720	(C)	(D) \$ 4,522

A + B = \$8,304 A + B + C = \$8,304 (A + B + C) - D = \$3,782

Excess Recurring Charge:*Annually - \$3,782.00 Monthly - \$315.17

*The lower of (A+B+C)-D , or (A+B).

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.7 Types of Charges (Cont'd)

(B) Recurring Charges(Cont'd)

(2) Charge for Route or Type Other Than Normal (Cont'd)

(b) If the customer has elected the actual cost option, the recurring charge will be adjusted to reflect the actual cost of the new construction when the cost is determined. This adjusted recurring charge is applicable from the start of service.

(3) Lease Charge

A Lease Charge applies when the Telephone Company leases equipment (e.g., portable microwave equipment) in order to provide service to meet the customer's requirements. The amount of the charge is the net added cost to the Telephone Company caused by the lease.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.8 Application of Charges

The charges for Special Construction are those charges which are in effect for the period that the Special Construction is furnished. If the charges for a period covered by a bill change after the bill has been rendered, the bill will be adjusted to reflect the new charges. Charges are based on Special Construction of (A) permanent facilities or (B) temporary facilities.

(A) Special Construction of Permanent Facilities

(1) Special Construction When Not Applicable and There is No Other Requirement for Them

When permanent facilities are not available and the Telephone Company constructs them and there is no other Telephone Company need for the specially constructed facilities, a nonrecurring charge, and a Maximum Termination Liability may be applicable.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.8 Application of Charges (Cont'd)

(A) Special Construction of Permanent Service (Cont'd)

(2) Special Construction Using a Route or Type of Facility Other Than Normal

When the specially constructed facility involves a route or type of facility other than that which the Telephone Company would ordinarily use, charges are based on the difference between the estimated costs of the specially constructed facility and those the Telephone Company would ordinarily use. A nonrecurring charge, a recurring charge, and a Maximum Termination Liability may be applicable.

(3) Special Construction of a Greater Quantity of Facilities Than Necessary to Satisfy the Customer's Order for Service

When the Telephone Company constructs more facilities than are required to satisfy the customer's order, additional charges will

ACCESS SERVICE

10. Special Construction (Cont'd)

10.2 Liabilities, Charges and Payments (Cont'd)

10.2.8 Application of Charges (Cont'd)

(A) Special Construction of Permanent Service (Cont'd)

(3) Special Construction of a Greater Quantity of Facility Than Necessary to Satisfy the Customer's Order for Service (Cont'd)

apply. These charges may include a nonrecurring charge, a recurring charge, and a Maximum Termination Liability.

(4) Special Construction Expedited at Greater Cost Than Would Otherwise be Incurred

When construction is expedited resulting in added costs, a nonrecurring Expediting Charge applies.

(B) Special Construction of Temporary Facility Order

When permanent facilities are not available and temporary facilities are constructed pending the construction of permanent facilities, a nonrecurring charge, and a Maximum Termination Liability may be applicable.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.3 Deferral of the In-Service Date of Facilities

10.3.1 General

The customer may request the Telephone Company to defer the in-service date of facilities on specially constructed facilities subject to the provisions as set forth in Section 5.2.2(A) preceding. If the deferral is not in compliance with the provisions as set forth in Section 5.2.2(A), the Special Construction case is considered to be cancelled and cancellation charges apply. Requests for deferral must be in writing and are subject to the following regulations.

10.3.2 Construction Has Not Started

If the Telephone Company has not incurred any costs (e.g., engineering and/or installation) before receiving the customer's request for deferral, no charge applies other than the Case Preparation Charge. However, the original quotation is subject to Telephone Company review at the time of reinstatement to determine if the original charges are still valid. Any change in liabilities and charges requires the concurrence of the customer in writing. Additional Case Preparation Charges will also apply.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.3 Deferral of the In-Service Date of Facilities (Cont'd)

10.3.3 Construction Has Started But Is Not Complete

If the construction of facilities has started, but has not been completed, before the Telephone Company receives the customer's request for deferral, charges apply. The charges vary depending on whether all or some of the facilities ordered are deferred.

(A) All Services Are Deferred

When all services involving Special Construction are deferred, a charge equal to the costs incurred during each month of the deferral applies. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The Case Preparation Charge also applies.

(B) Some But Not All Services Are Deferred

When some, but not all, services utilizing the specially constructed facilities are deferred, the Special Construction case will be completed. Maximum Termination Liability will apply in addition to Case Preparation Charges and any recurring charges associated with the Special Construction.

ACCESS SERVICE

10. Special Construction (Cont'd)

10.3 Deferral of the In-Service Date of Facilities (Cont'd)

10.3.4 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives the customer's request for deferral, the Case Preparation Charge as originally determined, will apply and any recurring charges associated with the Special Construction. The Maximum Termination Liability Period will begin when the customer accepts the service.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes

11.1 Local Transport Interface Groups

Ten Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's premises. Each Interface Group provides a specified premises interface code (e.g., two-wire, four-wire, DS1, etc.). At the option of the customer

and where transmission facilities permit, the Entrance Facility and individual transmission path between the customer's premises and the first point of switching may be provided with optional features as set forth in Section 6 preceding.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer's premises, the need for signaling conversions, or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, depending on the Feature Group and whether the Access Service is routed directly or through a Telephone Company Access Tandem. All Interface Groups are provided with Data Transmission Parameters.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

Only certain premises interfaces are available at the customer's premises. The premises interface codes associated with the Interface Groups may vary among Feature Groups. The various premises interface codes which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 11.1.11 following.

For each of the ten Interface Groups described following, the transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant and equipment capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

11.1.1 Interface Group 1 (USOC TPP1X)

Interface Group 1 provides a two-wire voice frequency transmission path at the point of termination at the customer's premises. Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is a Telephone Company Access Tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching can only provide four-wire terminations.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.1 Interface Group 1 (USOC TPP1X) (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC, or FGD, such signaling will be reverse battery signaling. When FGB, FGC, or FGD access service is associated with a two-way calling interface, E&M signaling shall be used.

11.1.2 Interface Group 2 (USOC TTP2X)

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer's premises. The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC, or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.2 Interface Group 2 (USOC TTP2X) (Cont'd)

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of, and typically used in the telecommunications industry for the transmission of voice, and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

11.1.3 Interface Group 3 (USOC TPP3X)

Interface Group 3 provides group level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 180 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.3 Interface Group 3 (USOC TPP3X) (Cont'd)

The interface is provided with SF supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 3 is available to existing customers only.

11.1.4 Interface Group 4 (USOC TPP4X)

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.4 Interface Group 4 (USOC TPP4X) (Cont'd)

The interface is provided with SF supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 4 is available to existing customers only.

11.1.5 Interface Group 5 (USOC TPP5X)

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.5 Interface Group 5 (USOC TPP5X) (Cont'd)

The interface is provided with SF supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 5 is available to existing customers only.

11.1.6 Interface Group 6 (USOC TPP6X)

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.6 Interface Group 6 (USOC TPP6X) (Cont'd)

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

11.1.7 Interface Group 7 (USOC TPP7X)

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.7 Interface Group 7 (USOC TPP7X) (Cont'd)

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

As of December 1, 1993, Interface Group 7 is available to existing customers only.

11.1.8 Interface Group 8 (USOC TPP8X)

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up to 96 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.8 Interface Group 8 (USOC TPP8X) (Cont'd)

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

Interface Group 8 is provided on an Individual Case Basis.

11.1.9 Interface Group 9 (USOC TPP9X)

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.9 Interface Group 9 (USOC TPP9X) (Cont'd)

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

11.1.10 Interface Group 10 (USOC TPPAX)

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4032 transmission paths with a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.10 Interface Group 10 (USOC TPPAX) (Cont'd)

The interface is provided with bit stream supervisory signaling for each individual transmission channel.

Interface Group 10 is provided on an Individual Case Basis.

11.1.11 Available Premises Interface Codes

Following is a matrix showing which premises interface codes are available for each Interface Group as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface Codes in 11.3.1 following.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>				
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	
1	LO	2LS2	X				
	LO	2LS3	X				
	GO	2GS2	X				
	GO	2GS3	X				
	LO, GO	2DX3	X				
	LO, GO	4EA3-E	X				
	LO, GO	4EA3-M	X				
	LO, GO	6EB3-E	X				
	LO, GO	6EB3-M	X				
	RV, EA, EB, EC	2DX3		X	X	X	
	RV, EA, EB, EC	4EA3-E		X	X	X	
	RV, EA, EB, EC	4EA3-M		X	X	X	
	RV, EA, EB, EC	6EB3-E		X	X	X	
	RV, EA, EB, EC	6EB3-M		X	X	X	
	EA, EB, EC	6ECS			X	X	
	RV	2RV3-O		X	X	X	
	RV	2RV3-T		X	X	X	
	2	LO, GO	4SF2	X			
		LO, GO	4SF3	X			
		LO	4LS2	X			
LO		4LS3	X				

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>			
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
2 (Cont'd)	LO	2LS2	X			
	GO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	LO, GO	2DX3		X	X	X
	LO, GO	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>				
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	
2 (Cont'd)	RV, EA, EB, EC	4DX3	X	X	X		
	RV, EA, EB, EC	6DX2			X		
	RV, EA, EB, EC	6EA2-E	X	X	X		
	RV, EA, EB, EC	6EA2-M	X	X	X		
	RV, EA, EB, EC	8EB-E	X	X	X		
	RV, EA, EB, EC	8EB-M	X	X	X		
	EA, EB, EC	4RV2O			X	X	
	RV	4RV2-T		X	X	X	
	RV	4RV3-O		X	X	X	
	RV	4RV3-T		X	X		
	RV			X	X		
	3	LO, GO	4AH5-B	X			
		RV, EA, EB, EC	4AH5-B		X	X	X
4	LO, GO	4AH6-C	X				
	RV, EA, EB, EC	4AH6-C		X	X	X	
5	LO, GO	4AH6-D	X				
	RV, EA, EB, EC	4AH6-D		X	X	X	

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
7	LO, GO	4DS9-31	X			
	RV, EA, EB, EC	4DS9-32		X	X	X
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31L		X	X	X
8	LO, GO	4DSO-63	X			
	LO, GO	4DSO-63L	X			
	RV, EA, EB, EC	4DSO-63		X	X	X
	RV, EA, EB, EC	4DSO-63L		X	X	X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>			
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X

11.1.12 Supervisory Signaling

Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

- For Interface Groups 1 and 2

DX Supervisory Signaling,
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.1 Local Transport Interface Groups (Cont'd)

11.1.12 Supervisory Signaling (Cont'd)

- For Interface Group 2

SF Supervisory Signaling, or
Tandem Supervisory Signaling

These Interface Groups may, at the option of the customer be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., nondigital, interface to the transport termination.

11.2 Transmission Specifications Switched Access Service

11.2.1 Standard Transmission Specifications

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Voice Grade Switched Access Service – Transmission Parameter Limits and Interface Combinations, Bell Communications Research, Technical Reference TR-NPL-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
Less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via a Telephone Company Access Tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire (2) ports of a four-wire (4) point of termination shall be equal to or greater than:

Echo Return Loss

Singing Return Loss

5 dB

2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 2.5 dB.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u> ⁸	
	<u>Type B1</u>	<u>Type B2</u>
Less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

⁸ For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Voice Grade Switched Access Service – Transmission Parameter Limits and Interface Combinations, Bell Communications Research, Technical Reference TR-NPL-000334.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(4) C-Notch Noise

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

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via a Telephone Company Access Tandem. The ERL and SRL also differ by Switched Access Service, type of termination, and type of transmission path. They are greater than or equal to the following:

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem		
- Terminated in Four-wire (4) trunk	21 dB	14 dB
- Terminated in Two-wire (2) trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
. For FGB access	8 dB	4 dB
. For FGC access (effective four-wire (4) transmission path at end office)	16 dB	11 dB
. For FGC access (effective two-wire (2) transmission path at end office)	13 dB	6 dB

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire (2) ports of a four-wire (4) point of termination shall be equal to or greater than:

Echo Return Loss

5 dB

Singing Return Loss

2.5 dB

(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 3.0 dB.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

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

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise⁹</u>	
	<u>Type B1</u>	<u>Type B2</u>
Less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

⁹ For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Voice Grade Switched Access Service – Transmission Parameter Limits and Interface Combinations, Bell Communications Research, Technical Reference TR-NPL-000334.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

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

(4) C-Notch Noise

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

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via a Telephone Company access tandem. It is equal to or greater than the following:

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

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

(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Service arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in Section 6 preceding. In addition, the Combined Access Service Arrangement is provided with Data Transmission Parameters. Following are descriptions of each parameter.

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

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

(2) Envelope Delay Distortion (Cont'd)

604 to 2804 Hz

Less than 50 route miles	500 microseconds
-----------------------------	------------------

Equal to or greater than 50 route miles	900 microseconds
--	------------------

1004 to 2404 Hz

Less than 50 route miles	200 microseconds
-----------------------------	------------------

Equal to or greater than 50 route miles	400 microseconds
--	------------------

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

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

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBmCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2) 33 dB
Third Order (R3) 40 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5 degrees peak-to-peak.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

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

(6) Frequency Shift

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

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(2) Envelope Delay Distortion (Cont'd)

604 to 2804 Hz

Less than 50 route miles	800 microseconds
-----------------------------	------------------

Equal to or greater than 50 route miles	1,000 microseconds
--	--------------------

1004 to 2404 Hz

Less than 50 route miles	320 microseconds
-----------------------------	------------------

Equal to or greater than 50 route miles	500 microseconds
--	------------------

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dB_{BrnCO} threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(6) Frequency Shift

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

11.3 Special Access Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service, Switched Access, Voice Grade and High Capacity. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies an NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

NT	=	Metallic Channel with a Predefined Technical Specification Package (1)
2	=	Number of physical wires at customer's premises
DC	=	Facility interface for direct current or voltage
8	=	Variable impedance level
3	=	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB -		Accepts 20 Hz ringing signal at customer's point of termination
AC -		Accepts 20 Hz ringing signal at customer's end user's point of termination
AH -		Analog high capacity interface
-	B	60 kHz to 108 kHz (12 channels)
-	C	312 kHz to 552 kHz (60 channels)
-	D	564 kHz to 3084 kHz (600 channels)

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
CT -		Centrex Tie Trunk Termination termination
DA -		Data stream in VF frequency band at customer's end user's point of termination
DB -		Data stream in VF frequency band at customer's point of termination
-	10	VF for TG1 and TG2
-	43	1VF for 43 Telegraph Carrier type signals, TG1 and TG2 DC - direct current or voltage
-	1	Monitoring interface with series RC combination (McCulloh format)
-	2	Telephone Company energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination

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11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DA -		Data stream in VF frequency band at customer's end user's point of termination
DS -		Digital hierarchy interface
-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
-	15J	1.544 Mbps format per PUB 41451
-	15K	1.544 Mbps format per PUB 41451 plus extended framing format

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DS (Cont'd)		
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with SF signaling
DU - Digital access interface		
-	19	19.2 kbps
-	24	19.2 kbps
-	48	4.8 kbps
-	56	56.0 kbps
-	64	64 kbps
-	96	9.6 kbps

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DU (Cont'd)		
-	A	1.544 Mbps format per PUB 41451
-	B	1.544 Mbps format per PUB 41451 plus D4
-	C	1.544 Mbps format per PUB 41451 plus extended framing format
DX -		Duplex signaling interface at customer's point of termination
DY -		Duplex signaling interface at customer's end user's point of termination
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -		Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -		Type III E&M signaling at customer POT
EX -	A	Tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions
EX -	B	Tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO -		Ground start loop signaling - open end function by customer or customer's end user.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
GS -		Ground start loop signaling - closed end function by customer or customer's end user.
IA -		E.I.A. (25 pin RS-232)
LA -		End user loop start loop signaling - Type A OPS registered port open end
LB -		End user loop start loop signaling - Type B OPS registered port open end
LC -		End user loop start loop signaling - Type C OPS registered port open end
LO -		Loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
LS -		Loop start loop signaling - closed end function by customer or customer's end user
NO -		No signaling interface, transmission only
PG -		Program transmission - no d.c. signaling
-	1	Nominal frequency from 50 to 15000 Hz
-	3	Nominal frequency from 200 to 3500 Hz
-	5	Nominal frequency from 100 to 5000 Hz
-	8	Nominal frequency from 50 to 8000 Hz
PR -		Protective relaying ¹⁰
RV -	0	Reverse battery signaling, one way operation, originate by customer
-	T	Reverse battery signaling, one way operation, terminate function by customer or customer's end user

¹⁰ Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
SF -		Signal frequency signaling with VF band at either customer POT or customer's end user POT.
TF -		Telephotograph interface
TT -		Telegraph/Teletypewriter interface at either customer POT or customer's end user POT
-	2	20.0 milliamperes
-	3	3.0 milliamperes
-	6	62.5 milliamperes
TV -		Television interface
-	1	Combined (duplexed) video and one audio signal
-	2	Combined (duplexed) video and two audio signals
-	5	Video plus one (or two) audio 5 kHz signal(s) or one (or two) two-wire.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
TV (Cont'd)		
-	15	Video plus one (or two) audio 15 kHz signal(s)
WA -		Wideband bandwidth interface at customer's end user POT
-	1	Limited bandwidth
-	2	Nominal passband from 29000 to 44000 Hz
WB -		Wideband data interface at customer POT
-	18S	18.75 kbps, synchronous
-	19A	Up to 19.2 kbps asynchronous
-	19S	19.2 kbps synchronous
-	23A	Up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40S	40.8 kbps, synchronous
-	50A	Up to 50.0 kbps, asynchronous
-	50S	50.0 kbps synchronous

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
WC -		Wideband data interface at customer's end user
	18	POT 18.75 kbps, synchronous
-	19	For 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps
-	23	Asynchronous up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40	40.8 kbps, synchronous
	50	For 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps
WD -		Asynchronous wideband bandwidth interface at customer POT
-	1	Nominal passband from 300 to 18000 Hz
-	2	Nominal passband from 28000 to 44000 Hz
-	3	Nominal passband from 29000 to 44000 Hz

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.2 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3
135	5
75	6
124	7
Variable	8
100	9

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0, or 4DS6 plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, MT2, etc.), and the network channel codes that are used for various administrative purposes.

<u>Service Designator Code</u>	<u>Network Channel Code</u>
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
VG2	LC
VG3	LD
VG4	LE
VG5	LF
VG6	LG

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW
WA1	WJ
WA1T	WQ
WA2	WL
WA2A	WR

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HC0	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(A) Metallic

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	2DC8-1	4AH6-D	2DC8-2
4AH5-B	24C8-2	2DC8-1	2DC8-2
4AH6-C	2DC8-1	2DC8-3	2DC8-3
4AH6-C	2DC8-2	4DS9-*	2DC8-1
4AH6-D	2DC8-1	4DS9-*	2DC8-2
4DS8-*	2DC8-1	4DS8-*	2DC8-2

* See 11.3 preceding for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4AB2	4AB2				
4AB2	4AC2	4AH5-B	6DA2	4AH6-D	2DY2
4AB3	4AC2	4AH5-B	4DA2	4AH6-C	9DY2
4AB2	2AC2	4AH5-B	2DA2	4AHG-	9DY3
				C	
4AB3	2AC2			4AH6-C	6DY2
2AB2	2AC2	4AH6-D	4DE2	4AH6-C	6DY3
2AB3	2AC2	4AH6-C	4DE2	4AH6-C	4DY2
		4AH5-B	4DE2	4AH6-C	2DY2
4AB2	4SF2	4AH6-D	2DE2	4AH5-B	9DY2
4A					
B2					
4AB3	4SF2	4AH6-C	2DE2	4AH5-B	9DY3
		4AH5-B	2DE2	4AH5-B	6DY2
4AH6-D	4AC2			4AH5-B	6DY3
4AH6-D	2AC2	4AH6-D	4DX3	4AH5-B	4DY2
4AH6-C	4AC2	4AH6-C	4DX3	4AH5-B	2DY2
4AH6-C	2AC2	4AH5-B	4DX3		
4AH5-B	4AC2	4AH6-D	4DX2	4AH6-D	9EA2
4AH5-B	2AC2	4AH6-C	4DX2	4AH6-D	9EA3

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4AH6-D	2CT3	4AH5-B	4DX2	4AH6-D	6EA2-E
				4AH6-D	6EA2-M
				4AH6-D	4EA2-E
4AH6-C	2CT3			4AH6-D	4EA2-M
4AH5-B	2CT3			4AH6-C	9EA2
4AH6-D	6DA2			4AJ7-C	9EA3
4AH6-D	4DA2	4AH6-D	9DY2	4AH6-C	6EA2-E
4AH6-D	2DA2	4AH6-D	9DY3		
4AH6-C	6DA2	4AH6-D	6DY2		
4AH6-C	4DA2	4AH6-D	6DY3		
4AH6-C	2DA2	4AH6-D	4DY2		
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH6-D	2LO2
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH6-C	2LO3
4AH6-C	4EA2-M	4AH6-D	2GS3	4AH6-C	2LO2
4AH5-B	9EA2	4AH6-D	2GS2	4AH5-B	2LO3
4AH5-B	9EA3	4AH6-C	6GS2	4AH5-B	2LO2
4AH5-B	6EA2-E	4AH6-C	4GS2		

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4AH5-B	6EA2-M	4AH5-B	2GS3	4AH6-B	4LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH6-D	2LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	4AH6-C	4LR2
		4AH5-B	4GS2	4AH6-C	2LR2
4AH6-D	8EB2-E	4AH5-B	2GS3	4AH5-B	4LR2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH5-B	2LR2
4AH6-D	6EB2-E				
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D	6LS2
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-D	4LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	4AH6-D	2LS2
4AH6-C	6EB2-E			4AH6-D	2LS3
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C	6LS2
4AH5-B	8EB2-E	4AHG-	2LB2	4AH6-C	4LS2
		C			
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH6-C	2LS2
4AH5-B	6EB2-E			4AH6-C	2LS3
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B	6LS2
		4AH6-C	2LC2	4AH5-B	4LS2

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4AH6-D	2GO2	4AH5-B	2LC2	4AH5-B	2LS2
4AH6-D	2GO3				
4AH6-C	2GO2				
4AH6-C	2GO2			4AH5-B	2LS3
4AH5-B	2GO2	4AH6-D	2LO3		
4AH5-B	2GO3				
4AH6D	4NO2	4AH6-D	4TF2	2CT3	8EB2-E
4AH6-D	2NO2	4AJ7-D	2TF2	2CT3	8EB2-M
4AH6-C	4NO2	4AH6-C	4TF2		
4AH6-C	2NO2	4AH6-C	2TF2	2CT3	6482-E
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	6EB2-M
4AH5-B	2NO2	4AH5-B	2TF2		
				2CT3	6EB3-E
				2CT3	4DS9-*
				2CT3	8EC2
		2CT3	6DX2		
		2CT3	4DX2	2CT3	4SF2
		2CTS	4DX3	2CT3	4SF3

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4AH6-D	4PR2	2CT3	9DY3	6DA2	6DA2
4AH6-D	2PR2	2CT3	6DY3	6DA2	4DA2
4AH6-C	4PR2	2CT3	9DT2	4DA2	4DA2
4AH6-C	2PR2	2CT3	6DY2		
4AH5-B	4PR2	2CT3	4DY3	4DB2	6DA2
4AH5-B	2PR2	2CT3	2DY2	4DB2	4DA2
				4DB2	2DA2
4AH6-D	4RV2-T	2CT3	9EA3	2DB3	2DA2
4AH6-D	2RV2-T	2CT3	9EA2	2DB2	
4AH6-C	4RV2-T	2CT3	6EA2-E	4DB2	4DB2
4AH6-C	2RV2-T	2CT3	6EA2-M	4DB2	4NO2
4AH5-B	4TV2-T	2CT3	4EA2-E	4DB2	2NO2
4AH5-B	2RV2-T	2CT3	4EA2-M	2DB2	2NO2
4AH6-D	4SF2			4DB2	4PR2
4AH6-C	4SF2			4DB2	2PR2
2CT3	2DY2				
	4DS8*				

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	4DY2		
	6EB2-E		
	9DY2		
4AH5-B	4SF2	2DB2	2PR2
4AH6-D	4SF3		
4AH6-C	4SF3		
4AH5-B	4SF3		
4DD3	4DE2	4DS8-*	9DY3
4DD3	2DE2	4DS8-*	9DY2
		4DS8-*	6DY3
4DS8-*	4AC2	4DS8-*	6DY2
4DS8-*	2AC2	4DS8-*	4DY2
		4DS8-*	2DY2
4DS8-*	6DA2		
4DS8-*	4DA2		

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4DS8-*	2DA2	4DS8-*	9EA2		
		4DS8-*	9EA3		
4DS8-*	4DE2	4DS8-*	6EA2-E		
4DS8-*	EDE2	4DS8-*	6EA2-M		
		4DS8-*	4EA2-E		
4DS8-*	4DX3				
4DS8-*	4DX2				
4DS8-*	8EB2-E	4DS8-*	4NO2	4DX3	9DY2
4DS8-*	8EB2-M	4DS8-*	2NO2	4DX2	6DY3
4DS8-*	6EB2-E			4DX3	6DY3
	6E				
	B2				
4DS8-*	6EB2-M	4DS8-*	4PR2	4DX2	6DY2
		4DS8-*	2PR2	4DX3	6DY2
4DS8-*	2GO2			4DX2	4DY2
4DS8-*	2GO3	4DS8-*	4RV2-T	4DX3	4DY2
4DS8-*	6GS2	4DS8-*	2RV2-T	2RV2-T	2DY2
4DS8-*	4GS2			4DX3	2DY2

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4DS8-*	2GS2	4DS8-*	4SF2		
4DS8-*	2GS3	4DS8-*	4SF3	6DX2	9EA3
				6DX2	9EA2
4DS8-*	2LA2	4DS8-*	4TF2	6DX2	6EA2-E
		4DS8-*	2TF2	6DX2	6EA2-M
				6DX2	4EA2-E
4DS8-*	2LB2	4DX2	4DX2	6DX2	4EA2-M
8DS8-*	2LC2	4DX3	4DX2	4DX2	9EA2
		4DX3	4DX3	4DX3	9EA2
4DS8-*	2LO2			4DX2	9EA3
4DS8-*	2LO3	6DX2	9DY3	4DX3	9EA3
		6DX2	9DY2	4DX2	6EA2-E
4DS8-*	4LR2	6DX2	6DY3	4DX3	6EA2-E
4DS8-*	2LR2	6DX2	6DY2	4DX2	6EA2-M
		6DX2	4DY2	4DX3	6EA2-M
4DS8-*	6LS2	6DX2	2DY2	4DX2	4EA2-E
4DS8-*	4LS2	4DX2	9DY3	4DX3	4EA2-E

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4DS8-*	2LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8-*	2LS3	4DX2	9DY2	4DX3	4EA2-M
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M	4DX2	4LS2	9DY2	2DY2
4DX2	8EB2-E	4DX3	2LS3	9DY3	2DY2
4DX2	8EB2-M	4DX2	2LS3	6DY3	6DY3
4DX3	8EB2-E	4DX3	2LS2	6DY3	6DY2
4DX3	8EB2-M	4DX2	2LS2	6DY2	6DY2
4DX2	6EB2-E	2DX3	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS3	6DY3	2DY2
4DX3	6E82-E			6DY2	4DY2
4DX3	6EB2-M	4DX3	4RV2-T	6DY2	2DY2
		4DX2	4RV2-T	4DY2	2DY2

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4DX2	2LA2	4DX3	2RV2-T	4DY2	4DY2
4DX3	2LA2	4DX2	2RV2-T		
2DX3	2LA2			6EA2-E	4AC2
		6DX2	4SF2	6EA2-M	4AC2
4DX2	2LB2	4DX2	4SF2	6EA2-E	2AC2
4DX3	2LB2	4DX3	4SF2	6EA2-M	2AC2
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
4DX2	2LC2			9EA2	9DY2
4DX3	2LC2	9DY3	9DY3	9EA2	6DY3
2DX3	2LC2	9DY3	9DY2	9EA2	6DY2
		9DY2	9DY2	9EA2	4DY2
4DX2	2LO3	9DY3	6DY3	9EA2	2DY2
4DX3	2LO3	9DY3	6DY2	9EA3	9DY3
2DX3	2LO3	9DY2	6DY2		
9EA3	9DY2	4EA2-M	9DY2	4EA3-E	9EA2

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
9EA3	6DY3	4EA2-M	6DY3	4EA3-E	9EA3
9EA3	6DY2	4EA2-M	6DY2	4EA2-M	4EA2-M
9EA3	4DY2	4EA2-M	4DY2		
9EA3	2DY2	4EA2-M	2DY2	9EA2	8EB2-E
6EA2-E	9DY3			9EA2	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	8EB2-E
6EA2-E	4DY2	9EA2	6EA2-M	9EA3	8E82-M
6EA2-E	2DY2	9EA2	4EA2-E	9EA3	6EB2-E
6EA2-M	9DY3	9EA2	4EA2-M	9EA3	6EB2-M
6EA2-M	9DY2	9EA3	9EA3	6EA2-E	8EB2-E
6EA2-M	6DY3	9EA3	6EA2-E	6EA2-E	8EB2-M
6EA2-M	6DY2	9EA3	6EA2-M	6EA2-E	6EB2-E
6EA2-M	4DY2	9EA3	4EA2-E	6EA2-E	6EB2-M
6EA2-M	2DY2	9EA3	4EA2-M	6EA2-M	8EB2-E
4EA2-E	9DY3	6EA2-E	6EA2-E	6EA2-M	8E82-M

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4EA2-E	9DY2	9DY2	9DY2	6EA2-M	6EB2-E
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-E
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-M
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-E
4EA3-E	4EA3-E	6EA2-M	4EA2-M	4EA3-E	8E82-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA3-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-E
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-M
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		
4EA2-M	8EB2-M	9EA3	43F2	6EB3-E	9DY2
4EA2-M	6EB2-E	9EA2	4SF2	6EB3-E	9DY3
4EA2-M	6EB2-M	6EA2-E	4SF3	6EB2-E	6DY2
		6EA2-M	4SF3	6EB3-E	6DY2
6EA2-E	2LA2	6EA2-E	4SF2	6EB2-E	6DY3

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
6EA2-M	2LA2	6EA2-M	4SF2	6EB3-E	6DY3
4EA3-E	4SF2			6EB2-E	4DY2
6EA2-E	2LB2	4EA2-E	4SF2	6EB3-E	2DY2
6EA2-M	2LB2	4EA2-M	4SF2	6EB3-E	4DY2
		6EB2-M	9DY2		
6EA2-E	2LC2	8EB2-E	4AC2	6EB2-M	9DY3
6EA2-M	2LC2	8EB2-M	4AC2	6EB2-M	6DY2
		8EB2-E	2AC2	6EB2-M	6DY3
6EA2-E	2LO3	8EB2-M	2AC2	6EB2-M	4DY2
6EA2-M	2LO3			6EB2-E	2DY2
		8EB2-E	9DY3	6EB2-M	2DY2
6EA2-E	6LS2	8EB2-E	9DY2		
6EA2-M	6LS2	8EB2-E	6DY3	6EB3-E	9EA2
6EA2-E	4LS2	8EB2-E	6DY2	6EB3-E	9EA3
6EA2-M	4LS2	8EB2-E	4DY2	6EB3-E	6EA2-E
6EA2-E	2LS2	8EB2-E	2DY2	6EB3-E	6EA2-M
6EA2-M	2LS2	8EB2-M	9DY3	6EB3-E	4EA2-E

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
6EA2-M	2LS3	8EB2-M	9DY2	6EB3-E	4EA2-M
6EA2-M	2LS3	8EB2-M	6DY3		
		8EB2-M	6DY2	8EB2-E	8EB2-E
6EA2-E	4RV2-T	8EB2-M	4DY2	8EB2-E	8EB2-M
6EA2-M	4RV2-T	8EB2-M	2DY2	8EB2-M	8EB2-M
6EA2-E	2RV2-T	6EB2-E	9DY2	8EB2-E	6EB2-E
6EA2-M	2RV2-T	6EB2-E	9DY3	8EB2-E	6EB2-M
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M
6EB2-E	6EB2-M	8EB2-M	2RV2-T		
6EB3-E	8EB2-E			8EC2	4SF2
6EB3-E	8EB2-M	8EB2-E	4SF2	6EX2-B	2GO3
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-A	6GS2
		8EB2-E	4SF3	6EX2-A	4GS2
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	2GS2

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	2GS3
		6EB2-E	4SF2		
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-B	2LA2
8EB2-M	8EB2-M				
		8EC2	9DY2	6EX2-B	2LB2
8EB2-E	2LC2	8EC2	9DY3		
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LC2
		8EC2	6DY3		
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LO2
8EB2-M	2LO3	8EC2	2DY2	6EX2-B	2LO3
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	4LR2
8EB2-M	6LS2	8EC2	9EA3	6EX2-B	2LR2
8EB2-E	4LS2	8EC2	6EA2-E		
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-A	6LS2
8EB2-E	2LS2	8EC2	4EA2-E	6EX2-A	4LS2
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	2LS2
8EB2-E	2LS3			6EX2-A	2LS3

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8EB2-M	2LS3	8EC2	8EB2-E		
6EX2-A	4SF2	6LO2	6LS2	4LR2	4SF2
6EX2-B	4SF2	6LO2	4LS2	4LR3	4SF2
		6LO2	2LS2		
6GO2	6GS2	6LO2	2LS3	6LS2	2LA2
6GO2	4GS2	4LO2	6LS2	4LS2	2LA2
6GO2	2GS2	4LO2	4LS2	4LS3	2LA2
6GO2	2GS3	4LO3	6LS2	2LS2	2LA2
4GO2	6GS2	4LO3	4LS2	2LS3	2LA2
4GO3	6GS2	4LO3	2LS3	6LS2	2LB2
4GO2	4GS2	4LO3	2LS2		
4GO3	4GS2	4LO2	2LS2	4LS2	2LB2
4GO2	2GS2	4LO2	2LS3	4LS3	2LB2
4GO2	2GS3	2LO3	2LS3	2LS2	2LB2
4GO3	2GS2	2LO3	2LS2	2LS3	2LB2
4GO3	2GS3	2LO2	2LS2		
2GO2	2GS2	2LO2	2LS3	6LS2	2LC2

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
2GO3	2GS2			4LS2	2LC2
2GO2	2GS3	6LO2	4SF2	4LS3	2LC2
2GO3	2GS3	4LO2	4SF2	2LS2	2LC2
		4LO3	4SF2	2LS3	2LC2
6GO2	4SF2				
4GO2	4SF2	4LR2	4LR1	6LS2	2LO3
4GO3	4SF2	4LR3	2LR2	6LS2	2LO2
		4LR2	4LR2	4LS2	2LO2
6GS2	2GO2	4LR2	2LR2	2LR2	2LO3
4GS2	2GO2	2LR2	2LR2	4LS3	2LO2
4GS3	2GO2	2LR3	2LR2	4LS3	2LO3
4GS2	2GO3				
6LS2	4SF2	4SF3	9DY2	4SF3	2LA2
4LS3	4LS3	4SF2	4SF2		
		4SF3	6DY3	4SF2	2LB2
4NO2	6DA2			4SF3	2LB2
4NO2	4DA2	4SF2	6DY3		

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4NO2	2DA2	4SF3	6DY2	4SF2	2LC2
2NO2	2DA2	4SF2	4DY2	4SF3	2LC2
		4SF3	4DY2		
4NO2	4DE2	4SF3	2DY2	4SF2	2LO3
4NO2	2DE2	4SF2	2DY2	4SF3	2LO3
4NO2	4NO2	4SF3	9EA2	4SF2	2LR2
4NO2	2NO2	4SF3	9EA3	4SF3	4LR2
2NO2	2NO2	4SF3	4EA2-E	4SF3	2LR2
2NO3	2NO2	4SF3	4EA2-M		
				4SF3	6LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	4LS2
		4SF3	6EB2-M	4SF3	4LS2
4RV2-0	4RV2-T	4SF3	2GO3	4SF2	2LS2
4RV2-0	2RV2-T	4SF3	6GS2	4SF2	2LS3
		4SF2	6GS2	4SF3	2LS2
				4SF3	2LS3
4RV2-0	4SF2	4SF3	4GS2		

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
		4SF2	2GS2	4SF3	4RV2-T
4SF2	4AC2	4SF2	2GS3	4SF2	4RV2-T
4SF2	2AC2	4SF3	2GS2	4SF2	2RV2-T
		4SF3	2GS3	4SF3	2RV2-T
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF3
4SF3	4SF2				
4SF2	4SF2				
4TF2	4TF2				
4TF2	2TF2				
2TF3	2TF2				
4AC2	2AC2				
	4AC2				
4DS8-*	4EA2M				
4DS8*-	4DG2				

* See 11.3 for explanation

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(B) Voice Grade (Cont'd)

Compatible CIs

4DX3	6EB2-E
4EA2-E	8EABZ-E
4EA3-E	9EB2-M

4G02	2G02
	2G03
4G03	2G02

4GS	2GS
	2LS
	4GS
	4LS

4SF2	6DY2
4LR3	4LR2
8G02	2G02

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(C) Program Audio

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4AH5-B	2PG1-3	4AH6-D	2PG1-3	4DS8-15F	2PG2-5
4AH5-B	2PG1-5	4AH6-D	2PG1-5	4DS8-15G	2PG2-8
4AH5-B	2PG1-8	4AH6-D	2PG1-8	4DS8-15H	2PG2-1
4AH5-B	2PG2-3	4AH6-D	2PG2-3	2PG2-1	2PG1-1
4AH5-B	2PG2-5	4AH6-D	2PG2-5	2PG2-1	2PG2-1
4AH5-B	2PG2-8	4AH6-D	2PG2-8	2PG2-3	2PG1-3
4AH6-C	2PG1-3	4DS8-15E	2PG1-3	2PG2-3	2PG2-3
4AH6-C	2PG1-5	4DS8-15F	2PG1-5	2PG2-5	2PG1-5
4AH6-C	2PG1-8	4DS8-15G	2PG1-8	2PG2-5	2PG2-5
4AH6-C	2PG2-3	4DS8-15H	2PG1-1	2PG2-8	2PG1-8
8AH6-C	8AH6-C	4DS8-15E	2PG2-3	2PG2-8	2PG2-8

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(D) Video

Compatible CIs

Compatible CIs

2TV6-1	4TV6-15	4TV7-5	4TV6-5
	4TV7-15		4TV7-5
2TV6-2	6TV6-15	4TV7-15	4TV6-15
	6TV7-15		4TV7-15
2TV7-1	4TV6-15	6TV6-5	6TV6-5
	4TV7-15		6TV7-5
2TV7-2	6TV6-15	6TV6-15	6TV6-15
	6TV7-15		6TV7-15
4TV6-5	4TV6-5	6TV7-5	6TV6-5
		4TV7-5	6TV7-5
4TV6-15	4TV6-15	6TV7-15	6TV6-15
	4TV7-15		6TV7-15

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(E) Digital Data

<u>Compatible Cls</u>		<u>Compatible Cls</u>		<u>Compatible Cls</u>	
4DS8-15	4DU8-15 ¹¹	4DS8-15	4DS8-15	6DU5-48	
4DS8-15	4DU8-24	4DS8-15	6DU5-56	6DU5-96	4DU5-96
4DS8-15	4DU8-48	4DU5-24	6DU5-96	6DU5-24	6DU5-24
4DS8-15	4DU8-56	4DU5-24	4DU5-24	6DU5-48	6DU5-48
4DS8-15	6DU5-96	4DU5-48	4DU5-48	6DU5-56	6DU5-56
4DS8-15	6DU5-24	4DU8-56	4DU5-56	6DU5-96	6DU5-96
		4DS9-15	4DU5-19	4DS6-44A	4DU5-19
4DS9-15B	4DU5-64X	4DS6-44A	4DU5-64X		

¹¹ Available only as a cross connect of two digital circuits at appropriate digital speeds at a Telephone Company Hub.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces

(F) High Capacity

Compatible CIs

Compatible CIs

4DSO-63	4DSO-63	4DS8-15	4DU8-8
4DSO-63	6DU8-A,B or C	4DS8-15J	6DU8-A
		4DS8-15J	4DU8-A
4DSO-63	4DU8-A,B or C	4DS8-15K	6DU8-B
4DS6-27	4DS6-27	4DS8-15K	4DU8-B
4DS6-27	6DU8-A,B or C	4DS8-15K	6DU8-C
4DS6-27	4DU8-A,B or C	4DS8-15K	4D78-C
4DS6-44	4DS6-44	4DS9-31	4DS9-31
4DS6-44	6DU8-A,B or C	4DS9-31	6DU8-A,B or C
4DS6-44	4DU8-A,B or C	4DS9-	4DU8-A,B or C
4DS8-15	4DS8-15 ¹²	4DU9-A,B or C	4DU8-A,B or C
4DS8-15	6DU8-B	4DS9-15	4DU5-19
4DS6-44A	4DU5-19	4DS9-15B	4DU5-64
4DS6-44A	4DU5-64		
4DS8-15	4DU8-B	4DU8-A,B or C	4DU8-A,B or C

¹² Available only as a cross connect of two digital circuits at appropriate digital speeds at a Telephone Company Hub.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.4 WATS Access Line Standard Transmission Specifications

11.4.1 Standard Two-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 4.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -3.0 dB to +9.0 dB.

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
Less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.4 WATS Access Line Standard Transmission Specifications (Cont'd)

11.4.1 Standard Two-Wire Voice Transmission Specifications (Cont'd)

(D) Echo Control

Return Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	6.0 dB
SRL	3.0 dB

11.4.2 Standard Four-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -3.0 dB to +3.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -1.0 dB to +4.5 dB.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.4 WATS Access Line Standard Transmission Specifications (Cont'd)

11.4.1 Standard Four-Wire Voice Transmission Specifications (Cont'd)

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
Less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(D) Echo Control

The Equal Level Echo Path Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	15.0 dB
SRL	9.0 dB

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.5 WATS Access Data Transmission Parameters

11.5.1 Signal to C-Notched Noise Ratio

The maximum Signal-to-C-Notched Noise Ratio is 30 dB.

11.5.2 Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands specified is:

1000 microseconds 604 to 2804 Hz

500 microseconds 1000 to 2404 Hz

11.5.3 Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(A) Intermodulation Distortion

The Second Order (R2), and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2) 31 dB

Third Order (R3) 34 dB

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.5 WATS Access Data Transmission Parameters (Cont'd)

11.5.4 Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

11.5.5 Frequency Shift

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

11.6 WATS Access Line Transmission Specifications

11.6.1 Improved Two-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 to +4.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

ACCESS SERVICE

11. Interface Groups, Transmission Specifications, Channel Interfaces and Network Channel Codes (Cont'd)

11.6 WATS Access Line Transmission Specifications (Cont'd)

11.6.1 Improved Two-Wire Voice Transmission Specifications (Cont'd)

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
Less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(D) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

ACCESS SERVICE

12. Special Facilities Routing of Access Services

12.1 Description of Special Facilities Routing of Access Services

The Services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special routing is involved where, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access in a manner which includes one more of the following conditions.

12.1.1 Diversity

Two or more Access Services must be provided over not more than two different physical routes.

12.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

12.1.3 Cable-Only Facilities

Certain Voice Grade services are provided on cable-only facilities to meet the particular needs of a customer or end user. Service is provided subject to the availability of cable-only facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

ACCESS SERVICE

12. Special Facilities Routing of Access Services (Cont'd)

12.1 Description of Special Facilities Routing of Access Services (Cont'd)

Avoidance and Diversity are available on Switched Access as set forth in Section 6 preceding. Cable-only facilities are available for Switched Access as set forth in Section 6 preceding.

In order to identify any special routing requirement, the Telephone Company will provide the ordering customer with the required routing information for each specially routed service. If requested by the customer, this information will be provided when the service is installed and prior to any subsequent change in routing.

The rates and charges for Special Facilities Routing of Access Services as set forth in 12.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

12.2 Rates and Charges

The rates and charges for Special Facilities Routing of Access Services are as follows:

ACCESS SERVICE

12. Special Facilities Routing of Access Services (Cont'd)

12.1 Description of Special Facilities Routing of Access Services (Cont'd)

12.2.1 Diversity

For each service provided in accordance with 12.1.1 preceding, the rates and charges will be developed on an Individual Case Basis and filed following:

Service not currently offered.

12.2.21 Avoidance

For each service provided in accordance with 12.1.2 preceding, the rates and charges will be developed on an Individual Case Basis and filed following:

Service not currently offered.

12.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 12.1.1 and 12.1.2 preceding, combined, the rates and charges will be developed on an Individual Case Basis and filed following:

Service not currently offered.

ACCESS SERVICE

12. Special Facilities Routing of Access Services (Cont'd)

12.1 Description of Special Facilities Routing of Access Services (Cont'd)

12.2.4 Cable-Only Facilities

For each service provided in accordance with 12.1.3 preceding, the rates and charges will be developed on an Individual Case Basis and filed following:

Service not currently offered.

ACCESS SERVICE

13. Coin Services

13.1 General

This section contains the rules and regulations pertaining to the provision of 1+ Coin Presubscription Service for the handling of 1+ interLATA sent-paid traffic from the Telephone Company's pay telephones.

13.2 Service Description

1+ Coin Presubscription Service provides the routing of 1+ interLATA sent-paid calls from Telephone Company pay telephones to the presubscribed 0+ Interexchange Carrier (customer) directly, to its designated secondary service provider, or to the default carrier, provided said carrier continues to accept such default traffic. The default carrier option will expire when the default carrier ceases to accept such traffic or when the presubscribed 0+ provider can handle such calls or route them to secondary service providers, whichever comes first. The customer has the following options:

- (1) to receive both 0+ and 1+ interLATA calls originated from Telephone Company pay telephones; or,
- (2) to receive the 0+ interLATA calls and select one secondary service provider per LATA to receive the 1+ interLATA sent-paid traffic; or,

ACCESS SERVICE

13. Coin Services (Cont'd)

13.2 Several Description (Cont'd)

- (3) to receive the 0+ interLATA calls and continue to default the 1+ interLATA sent-paid calls until the presubscribed 0+ provider is ready to handle (to receive both 0+ and 1+ interLATA calls or to receive 0+ interLATA calls and select a secondary service provider per LATA for 1+ interLATA calls) such calls.

The customer is solely responsible for all 0+ and 1+ interLATA sent-paid calls originating from the Telephone Company pay telephone when it handles 1+ interLATA sent-paid traffic or selects a secondary service provider to handle the 1+ interLATA sent-paid calls.

The Telephone Company must receive written authorization from the customer prior to routing 1+ interLATA sent-paid calls to the selected secondary service provider. If the customer selects a secondary service provider to handle 1+ interLATA sent-paid traffic, any arrangements will be solely between the customer and its selected secondary service provider.

13.3 Service Provisioning

The Telephone Company will provide 1+ interLATA sent-paid access from equal access end offices to the customer's designated location via direct routed trunks from the end office or via the Traffic Operator Position System (TOPS) tandems. When

ACCESS SERVICE

13. Coin Services (Cont'd)

13.3 Service Provisions (Cont'd)

the customer orders Modified Operator Services Signaling (MOSS) between a TOPS tandem and the CDP, the customer will be required to order a separate and final trunk group from the TOPS tandem to the CDP for each Numbering Plan Area (NPA) within a LATA to identify the coin originating NPA.

The Telephone Company will provide, where available, two types of call setup signaling from its pay telephone, MOSS and Exchange Access Operator Services System (EAOSS) signaling from the TOPS to the CDP. If the equal access end office is equipped with EAOSS functionality, MOSS or EAOSS signaling can be provided via direct trunking from the end office to the CDP at the customer's option. If the equal access end office is equipped with MOSS functionality, only MOSS will be provided for direct trunking from the end office to the CDP.

13.4 Collection and Remittance of Coin Station Monies

When the customer is provided Operator Assistance-Coin or Combined Coin and Noncoin or Operator Assistance-Full Feature Arrangements for sent-paid pay telephone access as set forth in Section 6, the Telephone Company will collect sent-paid monies from pay telephone stations and will remit monies to the customer as set forth in 13.6.4. Upon request from the customer, the Telephone Company will provide message call detail format and bill periods used to determine the monies.

ACCESS SERVICE

13. Coin Services (Cont'd)

13.5 Provision of Message Call Detail Concerning Coin Station Monies

Where Operator Assistance-Coin or Combined Coin and Noncoin or Operator Assistance-Full Feature Arrangements for sent-paid pay telephone access is provided to the customer and the customer wishes to receive the monies it is due for the monies collected by the Telephone Company from coin pay telephone stations, the customer shall furnish to the Telephone Company, at a location specified by the Telephone Company, the customer message call detail for the customer sent-paid (coin) pay telephone calls according to the Telephone Company collection schedule. The customer message call detail furnished shall be in a standard format established by the Telephone Company. The Telephone Company will provide the precise details of the required standard format to the customer. If, in the course of Telephone Company business, it is necessary to change the standard format, the Telephone Company will provide notification to the involved customer six months prior to the change.

If no customer message call detail is received from the customer for each bill period established by the Telephone Company, the Telephone Company will assume there were no customer sent-paid (coin) pay telephone calls for the period. In addition the customer shall furnish a schedule of its charges for sent-paid (coin) calls to the Telephone Company at a location and date as specified by the Telephone Company. A change in the customer's schedule of charges shall be furnished to the Telephone Company one day after the charges become effective.

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies

The Telephone Company will collect the monies from coin pay telephone stations and determine the amount due to the customer for sent-paid pay telephone access as follows:

13.6.1 Bill Period Coin Revenue

The Telephone Company will establish a collection schedule for each coin pay telephone station and will collect the monies from the coin pay stations based on this collection schedule. The monies collected based on this schedule during each bill period established by the Telephone Company will be identified by coin pay telephone station and summed to develop the Bill Period Coin Revenue for each coin record day (i.e., the day a record is prepared and dated to show the amount due the customer).

13.6.2 Total Customer Coin Revenue

The intrastate Total Customer Coin Revenue will be determined by the Telephone Company based on the customer message call detail received from the customer for each bill period and the customer's schedule of charges for sent-paid coin calls. Such Total Customer Coin Revenue will be developed each coin record day.

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies (Cont'd)

13.6.3 Recourse Adjustments

For each coin record day, the Telephone Company will subtract from the Total Customer Coin Revenue an amount for coin station shortages. Coin station shortages are amounts resulting from unauthorized calling at coin pay telephone stations, use of unauthorized coins (i.e., foreign coins, slugs and improper use of U.S. pennies), unauthorized removal of coins from coin pay telephone stations and coin refunds beyond the Telephone Company's control. Such amount will be rounded to the nearest penny. The shortage factor will be determined by dividing the yearly total coin shortage amount by the yearly total coin revenue amount (i.e., total coin revenue equals the coin revenue due under exchange tariffs, state toll tariffs and interstate toll tariffs). The total coin shortage amount and the total revenue amount will be determined by the Telephone Company through an annual special study.

13.6.4 Payment of Net Customer Coin Revenue

The Telephone Company will determine the Net Customer Coin Revenue for each coin record day by subtracting from the Total Customer Coin Revenue, determined as set forth in 13.6.2, the amount for coin

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies (Cont'd)

13.6.4 Payment of Net Customer Coin Revenue (Cont'd)

station shortages, determined in 13.6.3. On the payment date, which is determined by adding 45 days to the coin record date, the Telephone Company will remit payment to the customer for the Net Customer Coin Revenue.

13.6.5 Audit Provisions

Upon reasonable written notice by the customer to the Telephone Company, the customer shall have the right through its authorized representative to examine and audit, all such records and accounts as recognized under accounting practices as containing information bearing upon the determination of the amount payable to the customer. This examination shall occur during normal business hours and at reasonable intervals as determined by the Telephone Company. Adjustments shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither the right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving

ACCESS SERVICE

13. Coin Services (Cont'd)

13.6 Payment of Coin Sent-Paid Monies (Cont'd)

13.6.5 Audit Provisions (Cont'd)

such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

All information received or reviewed by the customer or its authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to anyone not involved in the audit, nor is such information to be used for any other purpose.

ACCESS SERVICE

14. Centralized Equal Access

14.1 General

Centralized Equal Access (CEA) is not a service offering in the Telephone Company's operating territory at this time.

ACCESS SERVICE

15. Packet Switching Network Service in Services

15.1 General

This section contains the rules and regulations pertaining to the provision of Packet Switching Network Service. This service not currently offered in the Telephone Company's operating territory.

15.2 Service Description

Packet Switching Network Service uses packet switching technology to provide a switched data transport service. This service uses analog and digital facilities to provide usage-sensitive data transport for a variety of interactive (or bursty) data applications between two or more customer designated premises (CDPs). The packet switch will be classified as a CDP.

Packet switching technology divides data streams into packets. The packet network examines, routes and transports packets individually without maintaining a physical path between bursts of data. This service is based on CCITT (Consultative Committee on International Telegraphy and Telephony) X.25 protocol and X.75 internetworking protocol. The X.25 and X.75 protocols are international standards developed by the CCITT that provide the foundation for Public Packet Switched Networks. Packet Switching Network Service and features are available where facilities and conditions permit.

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.3 Service Provisioning

Customers may access the Packet Switching Network through an X.75 internetworking access.

Packet switching carriers with a Data Network Identification Code may interconnect to an access port on the Packet Switching Network with X.75 protocol at transmission speeds of 9.6 Kbps or 56 Kbps. Each X.75 access will require an X.75 Access Port charge, a DDS Special Access Line charge (9.6 Kbps or 56 Kbps), associated DDS Special Transport charges, and Special Access Ordering charges set forth in Section 7.

The Special Access Line and Special Transport charges provide analog or digital connections from the packet carrier's location to the access port on the Telephone Company's packet network. Shared use (ratcheting) to provision the access connection is not permitted.

The packet switching carrier must provide the Telephone Company with a Percent Interstate Usage (PIU) in the Main Remarks section of the ASR when service is initially ordered. This PIU will be used as the basis for prorating charges to the interstate and intrastate jurisdictions. The packet switching carrier may submit an updated PIU report in writing at any time following one full month's billing. The updated report will become effective on the first day of the next monthly billing period which begins at least 15 business days after the date the revised report is received by the Telephone Company.

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.3 Service Provisioning (Cont'd)

Where the packet switching carrier's location is another telephone company's territory, the special access service connecting that location to the Telephone Company's packet network will be subject to the meet point billing requirements set forth in Section 2. All usage recorded at the Telephone Company's packet switch will be billed to the packet switching carrier by the Telephone Company.

15.4 Rate Regulations

15.4.1 Minimum Period

The minimum service period is one month.

15.4.2. Rate Application

- (A) Usage will be rounded up to the nearest minute at the end of the billing period.
- (B) Fractional segments per transmission will be rounded up to the next segment.
- (C) The minimum billable unit for Kilosegments is one Kilosegment. Segments will be accumulated during the billing period and fractional Kilosegments will be billed as whole Kilosegments.

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.4 Rate Regulations (Cont'd)

15.4.2. Rate Application (Cont'd)

- (D) All usage will be billed at the rate schedule in effect when usage occurred. All usage will be treated as current for determination of volume discount application.
- (E) All call attempts and completions will be billable except where calls are blocked or terminated because of network failure or congestion.
- (F) Rates for usage of the packet network will apply in addition to the monthly recurring charges for X.75 access. Rates applicable for X.75 access include a monthly recurring rate and an installation charge per X.75 access port, and are specified under
15.6. A DDS Special Access Line charge (9.6 Kbps or 56 Kbps), associated with DDS Special Transport and Special Access Ordering charges from Section 7 will also apply.
- (G) The night/holiday rate will apply to the following holidays:
 - New Year's Day Independence Day
 - Thanksgiving Day President's Day
 - Labor Day Christmas Day
 - Memorial Day Veteran's Day

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.4 Rate Regulations (Cont'd)

15.4.3. Usage Plans

The customer must select either the Basic Plan, Transaction Plan, or the High Volume Plan.

(A) Basic Plan

Basic Plan rates include both a per minute of use charge and a charge per kilosegment transmitted.

Usage will be rated at the day rate (8:00 a.m. to 5:00 p.m.) for that portion of the call in effect during the day rate period and at the night/holiday rate (after 5:00 p.m. and before 8:00 a.m. and all day on holidays) for that portion of the call in effect during the night/holiday period. When a call begins in one rate period and ends in another, the rate in effect for each rate period applies to the portion of the message occurring within that rate period. Refer to 15.6 for rates.

(B) Transaction Plan

Usage rates for the Transaction Plan are charged per transaction. A maximum of 15 seconds is allowed for each billable transaction. Usage over 15 seconds will be charged an overtime rate in 15 second increments at the rate specified in 15.6.

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.4 Rate Regulations (Cont'd)

15.4.3 Usage Plans (Cont'd)

(C) High Volume Plan

High Volume rates include a per minute of use charge and a charge per kilosegment transmitted.

Per minute of use charges will be rated at the day rate (8:00 a.m. to 5:00 p.m.) for that portion of the call in effect during the day rate period and at the night/holiday rate (after 5:00 p.m. and before 8:00 a.m. and all day on holidays) for that portion of the call in effect during the night/holiday period. When a call begins in one rate period and ends in another, the rate in effect for each rate period applies to the portion of the message occurring within that rate period.

In addition, incremental usage charges will apply based on the tapered schedule shown below. Day/night/holiday rates do not apply to the incremental usage charges.

Kilosegment

0001 - 2000

2001 - 4000

4001 - 6000

6001 and over

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.4 Rate Regulations (Cont'd)

15.4.3 Usage Plans (Cont'd)

(C) High Volume Plan (Cont'd)

Example:

For a total of 5000 Kilosegments, the incremental usage rates would be applied as follows:

- 2000 Kilosegments billed at the rate specified per Kilosegment for 0001-2000 Kilosegments
- 2000 Kilosegments billed at the rate specified per Kilosegment for 2001-4000 Kilosegments
- 1000 Kilosegments billed at the rate specified per Kilosegment for 4001-6000 Kilosegments

Refer to 15.6 for rates.

15.5 Supplemental Features

15.5.1 Fast Select

Fast Select allows a sending data terminal to forward up to 128 bytes of data along with call setup and clearing packets. This feature is available to all customers and is initiated on a call-by-call basis.

ACCESS SERVICE

15. Packet Switching Network Service in Services (Cont'd)

15.4 Rate Regulations (Cont'd)

15.5.2 Priority

Priority allows a customer to establish a "priority" status to the customer's data as it processes through the network. This feature is available to all customers and is initiated on a call-by-call basis.

15.6 Rates and Charges

15.6.1 X.75 Access, Per Port

Service not currently offered.

15.6.2 Usage Rates

(A) Basic Plan (USOC) (HRBKX)

Service not currently offered.

(B) Transaction Plan (USOC) (TAN)

Service not currently offered.

(C) High Volume Plan (USOC) (HRBK1)

Service not currently offered

15.6.3 Supplemental Features

Service not currently offered.

ACCESS SERVICE

16. Expanded Interconnection Services

16.1 Service Description

16.1.1 Expanded Interconnection Service (EIS) provides customers with the capability to terminate basic fiber optic transmission facilities, including optical terminating equipment and multiplexers at the Telephone Company central offices and interconnect those facilities with facilities of the Telephone Company. EIS will be provided in Telephone Company central offices except as provided for in 16.7.1, 16.7.2, and 16.8.1 following, and in accordance with 47 CFR § 64.1401 and 47 CFR § 64.1402.

EIS is not available to Enhanced Service Providers. Customer premises equipment, protocol conversion equipment or other types of customer equipment not required for basic transmission shall not be installed in Telephone Company central offices.

16.2 Provision of EIS

16.2.1 General

(A) EIS may be provided as Physical EIS where the transmission facilities of the customer interconnect with facilities of the Telephone Company within the Telephone Company central office or Virtual EIS where the interconnection with Telephone

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.1 Service Description (Cont'd)

16.2.1 General (Cont'd)

(A) (Cont'd)

Company facilities occurs outside the central office in a manhole or other similar location.

(B) EIS arrangements are available for DS1 (1.544 Mbps) and DS3 (44.735 Mbps) Special Access and Switched Access transmission facilities and terminating equipment to Telephone Company central office facilities in or near Telephone Company buildings.

(C) EIS will be available for microwave transmission on a case by case basis where reasonably feasible. EIS is not available on non-fiber optic facilities.

(D) Customer provided facilities and equipment are subject to the terms, conditions, and rates specified in this tariff.

(E) The Telephone Company is not responsible for the design, engineering, testing, maintenance or performance of the customer's equipment and facilities.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.2 Provision of EIS (Cont'd)

16.2.1 General (Cont'd)

- (F) The Telephone Company is not required to purchase additional plant or equipment, to relinquish floor space or facilities designated for Telephone Company use, to undertake construction of new central offices or to construct additions to existing central offices to satisfy a customer request.

16.2.2 Responsibility of the Telephone Company

- (A) The Telephone Company will provide EIS, within the limitations of space and facilities, to customers on a first-come, first-served basis. Establishment of the order in which the central office space will be offered to customers will be determined by the date and time that the ordering customer's completed Application Form and Engineering Fee, as set forth following, are received by the contact point at the Telephone Company.
- (B) The emergency provisioning and restoration of interconnection service shall be in accordance with 47 CFR § 64.401, which specifies the priority for such activities.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.2 Provision of EIS (Cont'd)

16.2.21 Responsibility of the Telephone Company (Cont'd)

- (C) In the event the Telephone Company determines it is necessary for the customer to move its partitioned space within a central office or to another central office, the customer will be required to do so. When the move is initiated by the Telephone Company, the Telephone Company will be responsible for the direct costs associated with the removal, transport and reinstallation of the customer's equipment.
- (D) The Telephone Company will establish points of contact for the customer to place a request for EIS. The point of contact will provide the customer with a packet of general information, including an Application Form and a list of applicable technical, fire, safety and network specifications and procedures.

16.2.3 Rights of the Telephone Company

- (A) The Telephone Company retains ownership of central office floor space and equipment used to provide EIS.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.2 Provision of EIS (Cont'd)

16.2.3 Rights of the Telephone Company (Cont'd)

- (B) The Telephone Company reserves the right to refuse use of customer designated interconnection equipment which does not meet network reliability standards and fire and safety codes.
- (C) The Telephone Company retains the right to maintain circuit assignment control to the point of termination.
- (D) The Telephone Company reserves the right, with prior notice, to access the partitioned space to perform periodic inspections to ensure compliance with Telephone Company installation, safety and security practices.
- (E) The Telephone Company reserves the right, without prior notice, to access the partitioned space in an emergency, such as fire or other unsafe conditions, or for purposes of averting any threat of harm imposed by the customer or the customer's equipment upon the operation of the Telephone Company's equipment, facilities and/or employees located outside the partitioned space.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.2 Provision of EIS (Cont'd)

16.2.3 Rights of the Telephone Company (Cont'd)

- (F) The Telephone Company reserves the right to remove and dispose of the customer's equipment if the customer fails to remove and dispose of the equipment within the 15-day period following discontinuance of service whether the discontinuance was ordered by the customer, or by the Telephone Company in accordance with this tariff. The customer will be charged the appropriate Additional Labor charges in Section 20 preceding, for the removal and disposal of such equipment.
- (G) The Telephone Company reserves for itself and its successors and assignees, the right to utilize the central office space in such a manner as will best enable it to fulfill the Telephone Company's service requirements.
- (H) The Telephone Company shall have the right, for good cause shown, and upon six (6) months' notice, to reclaim any partitioned space, cable space or conduit space in order to fulfill its obligation under Public Service law and its tariffs to provide telecommunication services to its end user customers. In such cases, the Telephone Company

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.2 Provision of EIS (Cont'd)

16.2.3 Rights of the Telephone Company (Cont'd)

(H) (Cont'd)

will reimburse the customer for reasonable direct costs and expenses in connection with such reclamation.

16.3 Obligations of the Customer

16.3.1 Responsibility of the Customer

- (A) The customer is responsible for coordinating with the Telephone Company to ensure that services are installed in accordance with the service request.
- (B) The customer will be responsible for any additional costs incurred by the Telephone Company for installation or maintenance of customer designated transmission equipment. Installation or maintenance will not begin until agreed to by the customer.
- (C) In the event of a Telephone Company work stoppage, the customer's employees, contractors or agents will comply with the emergency

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.1 Responsibility of the Customer (Cont'd)

(C) (Cont'd)

operation procedures established by the Telephone Company.

(D) On the date of discontinuance of service, the customer will disconnect and remove its equipment from its partitioned space up to the point of termination and from all other areas identified as common between the customer and the Telephone Company.

(E) The customer will provide access to the partitioned space at all times to allow the Telephone Company to react to emergencies, to maintain the building operating systems (where applicable and necessary) and to ensure compliance with OSHA/Telephone Company regulations and standards related to fire, safety, health and environment safeguards.

(F) The customer's employee, agent, or contractor with access to a Telephone Company central office shall adhere at all times to all applicable laws,

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.1 Responsibility of the Customer (Cont'd)

(F) (Cont'd)

regulations and ordinances and to rules of conduct established by the Telephone Company for the central office and the Telephone Company's employees, agents and contractors. The Telephone Company reserves the right to make changes to such procedures and rules to preserve the integrity and operation of the Telephone Company network or facilities or to comply with applicable laws and regulations. The Telephone Company will provide written notification 15 days in advance of such changes.

(G) The customer is responsible for payment of all charges as set forth in Section 2.4. Disputed bills will be subject to provisions in Section 2.4. Failure to make payment will result in disconnection of service in accordance with Section 2.1.8.

(H) The customer will be responsible to obtain appropriate insurance coverage including, but not limited to fire, theft, and liability as described in 16.7.6.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.1 Responsibility of the Customer (Cont'd)

- (l) The customer will be held liable for the actions and inactions of its employees, vendors, or contractors having access to Telephone Company central office equipment, manholes, property and facilities.

16.3.2 Claims and Demands for Damage

In addition to the provisions in Section 2.3.7, the customer shall defend, indemnify and save harmless the Telephone Company from and against any and all suits, claims and demands by third persons caused by, arising out of or in any way related to the installation, maintenance, repair, replacement, presence, use or removal of the customer's equipment or by the proximity of such equipment to the equipment of other parties occupying space in the Telephone Company's central office or caused by, arising out of or in any way related to the customer's failure to comply with any of the terms of this tariff.

16.3.3 Limitations

- (A) All customer facilities must terminate in the Telephone Company equipment. The customer will

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.3 Limitations (Cont'd)

(A) (Cont'd)

not be permitted to make connections between partitioned space of other customers within the central office.

(B) The customer shall not assign, sublease, rent or share with or without charge, partitioned space with another customer.

(C) Other than marking equipment for identification purposes, the customer shall not paint or affix any signs, posters, advertisements or notices on any portion of any equipment located in the Telephone Company central office.

(D) The customer shall not use cellular telephones within the central office locations. The customer may order local exchange business service to be installed within the customer's partitioned space.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.41 Mechanic's or Materialmen's Liens

The customer shall not permit to be placed upon the central office or any of the Telephone Company's property any mechanic's or materialmen's liens caused by or resulting from any work performed, materials furnished or obligations incurred by or at the request of the customer. In the case of the filing of any such lien, the customer shall immediately pay the lien in full.

If default in the payment continues for ten (10) days after written notice from the Telephone Company to the customer, the Telephone Company will have the right, at the Telephone Company's option, of paying the lien or any portion of the lien, without inquiry as to the validity of the lien, and the customer shall reimburse the Telephone Company for any amounts paid, including expenses and interests, within ten (10) days after delivery to the customer of an invoice. Failure to remit payment to the Telephone Company within ten (10) days will result in disconnection of service as set forth in Section 2.1.8.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.5 Confidentiality

The customer shall hold in confidence all information of a competitive nature provided to the customer by the Telephone Company in connection with EIS or known to the customer as a result of the customer's access to the Telephone Company's central office or as a result of the interconnection of the customer's equipment to the Telephone Company's facilities; provided, however, that the customer shall not be obligated to hold in confidence information that:

- (1) was already known to the customer free of any obligation to keep such information confidential;
- (2) was or becomes publicly available by other than unauthorized disclosure; or
- (3) was rightfully obtained from a third party not obligated to hold such information in confidence.

16.3.6 Network Outage, Damage and Reporting

- (A) The customer shall be responsible for any damage or network outage occurring as a result of termination of customer owned equipment in the Telephone Company central office.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.3 Obligations of the Customer (Cont'd)

16.3.6 Network Outage, Damage and Reporting (Cont'd)

- (B) The customer is responsible for providing trouble report status when requested.
- (C) The customer is responsible for providing a contact number that is readily accessible 24 hours a day, 7 days a week.
- (D) The customer shall be responsible for notifying the Telephone Company of significant outages which could impact or degrade the Telephone Company's switches and services and provide estimated clearing time for restoral.
- (E) The customer is responsible for testing its equipment to identify and clear a trouble report when the trouble has been sectionalized (isolated) to a customer service.
- (F) Credit for interruption of service will be given only for the switched access and special access facility and associated cross connect as set forth in Sections 6 and 7.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.4 Discontinuance of Service

16.4.1 General

- (A) The customer shall provide 60 days advance written notification of its intention to discontinue EIS and relinquish the partitioned space.
- (B) Upon discontinuance of service, the customer shall disconnect and remove its equipment from the partitioned space. The Telephone Company reserves the right to remove the customer's equipment if the customer fails to remove and dispose of the equipment within 15 days of discontinuance. The customer will be charged the appropriate Additional Labor Charge in Section 20 for the removal of such equipment. The customer's failure to remove its equipment within 15 days of discontinuance of service shall constitute an abandonment of such equipment and the customer shall forfeit all rights and title to such equipment.
- (C) The Telephone Company will make every effort to contact the customer in the event the customer's equipment disrupts the network. If the Telephone Company is unable to make contact with the customer, the Telephone Company shall

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.4 Discontinuance of Service (Cont'd)

16.4.1 General (Cont'd)

(C) (Cont'd)

temporarily disconnect the customer's service as set forth in Section 2.2.1(B).

- (D) The Telephone Company reserves the right to terminate EIS, in the event the customer is not in conformance with Telephone Company standards and requirements and/or in the event the customer imposes continued disruption and threat of harm to Telephone Company employees and/or network, or the Telephone Company's ability to provide service to other customers.

16.5 Ordering Options for EIS

16.5.1 Physical EIS at Tariffed Locations

- (A) Customers requesting physical EIS at a central office location will be required to complete the Application Form and submit the Engineering Fee as set forth in Section 20. Upon notification of available space, the customer will be required to place an EIS Access Service Request (ASR).

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.1 Physical EIS at Tariffed Locations (Cont'd)

- (B) Upon receipt of the completed EIS ASR, the Telephone Company will schedule a meeting with the customer to determine engineering and network requirements. The Telephone Company will provide to the customer the general information packet including lists of technical publications and procedures necessary to meet network, engineering, security and safety standards.
- (C) Upon receipt of the ASR and 50% of the Building Modification and Office Arrangement charges, as set forth in Section 20, the Telephone Company will initiate necessary modifications to the central office to accommodate the customer's request. The customer and the Telephone Company will work cooperatively to ensure that services are installed in accordance with the service requested. The balance of the Building Modification and Office Arrangement charge is due at the time the space is turned over to the customer.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.1 Physical EIS at Tariffed Locations (Cont'd)

- (D) The customer is responsible to have cable and other equipment ready for installation on the date scheduled. If the customer fails to notify the Telephone Company of a delay in the installation date, the customer will be subject to the appropriate Additional Labor charges in Section 20.
- (E) The Telephone Company will advise the customer of any delay in completion of the preparation of the central office space, and reschedule a new installation date for earliest possible date.

16.5.2 Bona Fide Request for Physical EIS at Non-Tariffed Locations

- (A) Customers requesting physical EIS at a central office which is not tariffed will be required to initiate a bona fide request. Submission of a completed Application Form and \$2,500 is considered a bona fide request.
- (B) Customers initiating a bona fide request must have the capability of terminating their transmission

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.2 Bona Fide Request for Physical EIS at Non-Tariffed Locations
(Cont'd)

(B) (Cont'd)

facilities at the Telephone Company central office within a reasonable period of time, not to exceed 6 months from the date the request is initiated.

(C) Customers initiating a bona fide request shall be required to submit \$2,500, which will later be applied toward the Engineering Fee to perform a preconstruction verification of the central office location.

(D) The customer must complete the Application Form, providing all required information before the Telephone Company will begin work on the request. The customer will be required to provide information such as, central office location, number and type of terminations, amount of square footage, type of equipment, etc.

(E) Within 10 days from receipt of the completed request form, the Telephone Company will verbally notify the customer if existing suitable space is available. If existing suitable space is not available, the customer will be notified in writing.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.2 Bona Fide Request for Physical EIS at Non-Tariffed Locations
(Cont'd)

- (F) If existing suitable space is not available, or the customer cancels the request within 10 days, the Telephone Company will refund the \$2,500 to the customer. The Telephone Company will not make any refund after notification of availability of existing suitable space. At the option of the customer, the \$2,500 may be applied toward the Engineering Fee for virtual EIS.
- (G) Tariff revisions will be filed no later than 30 days from receipt of the original request to be effective on 30 days notice.
- (H) The Telephone Company will not begin necessary modifications to the central office until after the tariff becomes effective and an ASR is received. The customer must submit the balance of the Engineering Fee with the ASR.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.3 Virtual EIS

- (A) Customers seeking virtual EIS shall submit a written request and a \$2,500 non-refundable fee which will be applied toward the Engineering Fee. The customer will be required to provide information such as, central office location, number and type of terminations, type of equipment, etc. The customer must provide all required information before the Telephone Company will begin work on the request.
- (B) The Telephone Company will provide to the customer the general information packet including lists of technical publications and procedures necessary to meet network, engineering, security and safety standards.
- (C) Upon receipt of the fee, the Telephone Company will initiate a search of engineering records, an inspection of outside plant facilities, and other administrative activities required to process the request.
- (D) Virtual EIS will be provided to customers at rates and charges, including the Engineering Fee, specific to the location and customer equipment installed.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.3 Virtual EIS (Cont'd)

- (E) The rates and charges quoted to the customer for a specific request will be valid for only 30 days. The customer must place an order within 30 days to obtain the service at the quoted rates. If the customer seeks to order the service after the 30 day period, a new request and associated fee will be required to update the review of the request.
- (F) The Telephone Company will notify the customer in writing of rates and charges for the service. Upon acceptance of the rates, the Telephone Company will file tariff revisions to be effective on 30 days notice.
- (G) At the time the tariff becomes effective, the customer shall submit the EIS ASR and the remainder of the Engineering Fee. The customer will be notified of the scheduled service date at the time the order is taken.

16.5.4 Microwave Services

EIS through microwave service will be provided, where reasonably feasible, only on a case-by-case basis.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.5 Ordering Options for EIS (Cont'd)

16.5.4 Microwave Services (Cont'd)

Rules, regulations and rates will be developed and filed upon a bona fide request from customers to provide microwave interconnection.

16.5.5 Other Technologies

EIS through technologies other than fiber optic cable and microwave will be evaluated on a case-by-case basis.

16.6 EIS Service Request

16.6.1 Application Form for Physical EIS at Tariffed Locations

- (A) Customers requesting physical EIS will be required to submit an Engineering Fee as set forth in Section 20 for each central office.
- (B) Receipt of the Application Form and the Engineering Fee will determine the order of priority of the customers requesting physical EIS. Receipt of the Application Form and \$2,500 payment will constitute a bona fide request and will establish the order of priority.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.6 EIS Service Request (Cont'd)

16.6.1 Application Form for Physical EIS at Tariffed Locations (Cont'd)

- (C) The Application Form will require the customer to provide all engineering, floor space, power, environmental and other requirements necessary for the function of the service. The Telephone Company will notify the customer in writing following receipt of the completed application if the customer's requirements cannot be accommodated as specified.
- (D) If existing suitable space is not available, the Engineering Fee will be refunded. If the customer withdraws or cancels the request within fifteen (15) days after receipt of the Application Form, 50% of the Engineering Fee will be refunded to the customer.

If the customer withdraws or cancels the request after the fifteenth day, no refund of the Engineering Fee will be made.
- (E) The Telephone Company will provide an information packet containing a list of engineering and technical specifications, fire, safety, security policies and procedures.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.6 EIS Service Request (Cont'd)

16.6.1 Application Form for Physical EIS at Tariffed Locations (Cont'd)

- (F) Customers initiating an Application Form must have the capability of terminating their transmission facilities at the Telephone Company central office within a reasonable period of time, not to exceed six (6) months from the date the request is initiated.
- (G) The Telephone Company will notify the customer of those central offices in which existing suitable space becomes exhausted. The Telephone Company will not maintain a list of customers requesting space in a central office after the space is initially exhausted.
- (H) The first customer in a central office will be responsible for Building Modification charges as shown in Section 20. This charge will be prorated and the prorated share refunded as additional customers utilize physical EIS within that central office.
 - (1) The Building Modification charge will apply in full to the first customer in each central office.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.6 EIS Service Request (Cont'd)

16.6.1 Application Form for Physical EIS at Tariffed Locations (Cont'd)

(H) (Cont'd)

- (2) If a second customer orders service in the same central office within 12 months of the initial customer, the second customer in that central office will be charged one-third of the Building Modification charge. The Telephone Company will retain \$1,000 of the amount paid by the second customer to cover administrative costs for processing the request. A credit will be applied to the first customer's account for the remainder.
- (3) If a third customer orders service in the same central office within 12 months of the initial customer, the third customer will also be charged one-third of the Building Modification charge. The Telephone Company will retain \$1,000 of the amount paid by the third customer to cover administrative costs for processing the request. A credit will be applied to the first customer's account for the remainder.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.6 EIS Service Request (Cont'd)

16.6.1 Application Form for Physical EIS at Tariffed Locations (Cont'd)

(H) (Cont'd)

- (4) Additional customers ordering service in the same central office within the first year will be charged the appropriate Additional Labor charges in Section 20 for any necessary building modifications. No credit is applied to the initial customer's account.
- (5) Customers ordering service after the 12 month period will be charged the appropriate Additional Labor charges in Section 20 only if additional modifications are required.

16.6.2 Relocation Within the Same Central Office

Customer requests for relocation of the termination equipment from one location to a different location for the same customer within the same central office will be handled on an individual case basis.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.6 EIS Service Request (Cont'd)

16.6.3 Expansion of Existing Space

Customer requests for expansion of existing space within a specific central office will be treated as a new service application.

16.7 Physical EIS

16.7.1 Availability of Service

Physical EIS will be made available only in central offices where there is existing suitable space as defined in 16.7.2. Where existing suitable space has been exhausted, virtual EIS will be available.

Existing suitable space in Telephone Company central offices available for physical EIS will be provided to customers on a first-come, first-served basis as specified in 16.7.2.

16.7.2 Existing Suitable Space

(A) Existing suitable space is defined as space in which a.c./d.c. power, heat and air conditioning, battery and/or generator back-up d.c. power, and other requirements necessary for provision of central

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.2 Existing Suitable Space (Cont'd)

(A) (Cont'd)

office equipment currently exists and is not required space and facilities designated for use by the Telephone Company.

(B) The Telephone Company and the customer will work cooperatively to determine proper space requirements and to ensure that customer space, reserved for the customer's projected growth, is utilized within a reasonable time.

(C) The customer must specify the amount of floor space requested in each central office at the time of the initial application. The minimum amount of floor space available to each customer will be 100 square feet per central office. The Telephone Company may enclose the customer's space in a cage or room.

(D) Additional space will be offered in increments of 100 square feet, where available. The maximum amount of space available to each customer will be limited only by the amount of existing suitable space available in a specific central office.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.2 Existing Suitable Space (Cont'd)

- (E) The Telephone Company reserves the right to require customers to relinquish such space which is not used within a reasonable time. Each customer's space requirements will be reviewed periodically to determine if unused space should be relinquished.
- (F) The customer shall use the partitioned space solely for the purposes of installing, maintaining and operating the customer's equipment to interconnect with the facilities of the Telephone Company in accordance with 47 CFR § 64.1401 and 47 CFR § 64.1402 and for no other purposes.
- (G) The customer shall not construct improvements or make alterations or repairs to the partitioned space without the prior written approval of the Telephone Company.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.3 Power, Environmental Conditioning, and d.c. Power

- (A) The Telephone Company will provide, at rates set forth in Section 20, d.c. power with generator and/or battery back-up, heat, air conditioning and other environmental support to the customer's equipment in the same standards and parameters required for Telephone Company equipment.
- (B) The customer will provide the Telephone Company with specifications for any non-standard or special requirements at the time of application. The Telephone Company reserves the right to assess the customer any additional charges on an individual case basis associated with complying with the requirements or to refuse an application where extensive modifications are required.

16.7.4 Customer Terminating Equipment Requirements

- (A) Customer equipment installed in the Telephone Company central office must comply with either the Telephone Company's list of approved products, or equipment that complies with central office environmental and transmission standards in effect at the time the interconnection is made.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.4 Customer Terminating Equipment Requirements (Cont'd)

- (B) The customer shall be responsible for servicing, supplying, repairing and maintaining the following:

Fiber Optic Cable and Fire Retardant Sheath
Equipment located within the central office
Interconnection cable to the point of
demarcation.

- (C) The customer shall be required to provide DS1 cable facilities in sufficient capacity for the Telephone Company to wire DS1 services in multiples of 28.

- (D) The interconnection point for physical EIS is the point where the customer-owned cable facilities connect to the Telephone Company termination equipment.

The Telephone Company will designate a DSX panel(s) as the point(s) of termination within each central office as the point(s) of physical demarcation between the customer's maintenance and ownership responsibilities and the Telephone Company's maintenance and ownership responsibilities. Maintenance and related activities

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.4 Customer Terminating Equipment Requirements
(Cont'd)

(D) (Cont'd)

up to the Telephone Company side of the point of termination will be the responsibility of the Telephone Company.

(E) The customer shall be responsible for bringing its fiber optic cable to the central office manhole and leave sufficient cable length in order for the Telephone Company to be able to fully extend such cable through to the customer's space. No splicing will be permitted in the manhole. Upon discontinuance of EIS, the customer relinquishes all rights, title, and ownership of cable to the Telephone Company.

(F) The Telephone Company is responsible for installing customer provided fiber optic cable in the cable space or conduit from the manhole to the central office. This may be shared conduit with dedicated inner duct. The customer shall not be permitted to reserve central office cable space or conduit. If new conduit is required the Telephone

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.4 Customer Terminating Equipment Requirements (Cont'd)

(F) (Cont'd)

Company will negotiate with the customer to determine the specific location. The Telephone Company reserves the right to manage its own central office conduit requirements and to reserve vacant space for planned facility additions.

- (G) The Telephone Company is responsible for installing a cable splice where the customer provided fiber optic cable meets customer provided fire retardant riser cable within the central office cable vault or designated splicing chamber. The Telephone Company will provide space and racking for the placement of the splice enclosure. The Telephone Company will tag all entrance facilities to indicate ownership. The Telephone Company is responsible for placing the customer's fire retardant riser cable from the cable vault to the partitioned space. The customer is responsible for providing fire retardant riser cable that meets Telephone Company standards.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.4 Customer Terminating Equipment Requirements (Cont'd)

- (H) Customer interconnection equipment installed with the Telephone Company's central office facilities shall be subject to and comply with Telephone Company practices for a.c./d.c. bonding and grounding requirements. This information will be provided to the customer in the general information packet.
- (I) Upon installation of the customer's equipment, with prior notice, the Telephone Company will schedule time to work with the customer during the turn-up phase of the equipment to ensure proper functionality between the customer's equipment and the connections to the Telephone Company equipment. The time period for this to occur will correspond to the Telephone Company's maintenance window time period.
- (J) The customer shall be required to provide any required repeater equipment and such equipment must be located inside the customer's cage or partitioned space. If distance limitations require such repeater equipment to be located outside the

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.4 Customer Terminating Equipment Requirements (Cont'd)

(J) (Cont'd)

customer's space, the customer shall be required to acquire such additional space to be enclosed in a cage or partitioned area.

(K) All equipment installed within the Telephone Company central office facilities shall meet the industry standard requirements as applicable for the following:

DS1 1.544 Mbps

DS3 44.735 Mbps

TR-NWT-000499 Transport Systems Generic
Requirements (TSGR) GR-499.

TR-NWT-000063 Network Equipment Building System
(NEBS) Generic Equipment
Requirements GR-63.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.4 Customer Terminating Equipment Requirements (Cont'd)

(K) (Cont'd)

TR-TSY-000487	Generic Requirements for Electronic Equipment Cabinets, GR-487.
TR-NWT-000320	Fundamental Generic Requirements for Metallic Digital Signal Cross Connect Systems DSX-1, -1C, -2, -3 GR-320.
Part 15.109	47 CFR § 15.109 Radiated Emission Limits.
UL 94	UL 94 Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances
ANSI T1.102	American National Standards Institute (ANSI) T1.102 Telecommunications – Digital Hierarchy – Electrical Interfaces

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Security Requirements for Customer Access to Telephone Company Buildings

- (A) The Telephone Company will permit the customer's employees, agents, and contractors approved by the Telephone Company to have access to the customer's partitioned space at all times. The customer's employees, agents, or contractors must comply with the policies and practices of the Telephone Company pertaining to fire, safety, and security. The Telephone Company will also permit all approved employees, agents and contractors to have access to the customer's cable and associated equipment, e.g., repeaters. This will include access to riser cable, cableways, and any room or area through which necessary access is available.
- (B) All employees, agents and contractors must meet certain minimum requirements established by the Telephone Company. This information will be provided to the customer. At the time the customer places the EIS ASR for physical EIS, the customer must submit a list of employees, agents and contractors and the associated Telephone Company central office where access is requested.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Security Requirements for Customer Access to Telephone Company Buildings (Cont'd)

(B) (Cont'd)

The customer must also certify that each of the individuals on the list meets the minimum requirements. The information will be submitted to the Telephone Company's Security Department for approval.

(C) Access cards or keys will be provided to no more than six individuals per customer for each Telephone Company central office.

(D) Upon approval, the customer must provide all employees, agents, and contractors a photo identification card which identifies the person by name and the name of the customer. The ID must be worn on the individual's exterior clothing while in the Telephone Company buildings. The Telephone Company will provide the customer with instructions and necessary access cards or keys to obtain access to Telephone Company buildings.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Security Requirements for Customer Access to Telephone Company Buildings

- (E) In central offices where the customer's space cannot be partitioned, the customer's employee, agent or contractor will be escorted to and from the customer's area by a Telephone Company employee. The customer must schedule access to such locations in advance.

Customers shall be subject to charges as set forth for Additional Labor in Section 20 where the customer's employee, agent or contractor requires access outside of regular business hours.

- (F) The Telephone Company reserves the right to deny access to Telephone Company buildings for any customer's employee, agent or contractor who cannot meet the Telephone Company's established security standards.
- (G) The Telephone Company also reserves the right to deny access to Telephone Company buildings for any customer's employee, agent and contractor for falsification of records, violation of fire, safety or security practices and policies or other just cause.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Security Requirements for Customer Access to Telephone
Company Buildings

- (H) The customer is required to immediately notify the Telephone Company by the most expeditious means, when any customer's employee, agent or contractor with access privileges to Telephone Company buildings is no longer in its employ, or when keys, access cards or other means of obtaining access to Telephone Company buildings are lost, stolen or not returned by an employee, agent or contractor no longer in its employ.
- (I) The customer is responsible for the immediate retrieval and return to the Telephone Company of all keys, access cards or other means of obtaining access to Telephone Company buildings if lost, stolen or upon termination of employment of the customer's employee and/or discontinuance of service. The customer shall be responsible for the replacement cost of keys, access cards or other means of obtaining access when lost, stolen or failure of the customer or the customer's employee, agent or contractor to return to the Telephone Company.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Insurance & Liability Requirements

- (A) The customer shall, at its sole cost and expense, obtain, maintain, pay for and keep in force insurance as specified following and underwritten by an insurance company(s) having a best insurance rating of at least AA-12.
- (B) The Telephone Company shall be named as an additional insured and a loss payee on all applicable policies as specified following:
 - (1) Comprehensive general liability coverage on an occurrence basis in an amount of \$2,000,000 combined single limit for bodily injury and property damage with a policy aggregate of \$4,000,000. This coverage shall include the contractual, independent contractors products/completed operations, broad form property and personal injury endorsements.
 - (2) Umbrella/Excess Liability coverage in an amount of \$10,000,000 excess of coverage specified in (1) above

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Insurance & Liability Requirements (Cont'd)

(B) (Cont'd)

- (3) All Risk Property coverage on a full replacement cost basis insuring all of the customer's real and personal property located on or within the Telephone Company central office. The customer may also elect to purchase business interruption and contingent business interruption insurance, knowing that the Telephone Company has no liability for loss of profit or revenues should an interruption of service occur.
- (4) Statutory Workers Compensation coverage.
- (5) Contractual Liability coverage.
- (6) Automobile Liability coverage.
- (7) Employees Liability coverage in an amount of \$2,000,000.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Insurance & Liability Requirements (Cont'd)

- (C) All policies purchased by the customer shall be deemed to be primary and not contributing to or in excess of any similar coverage purchased by the Telephone Company.
- (D) All insurance must be in effect on or before the customer occupies the partitioned space and shall remain in force as long as the customer's facilities remain within any space governed by this tariff. If the customer fails to maintain the coverage, the Telephone Company may pay the premiums and seek reimbursement from the customer. Failure to make a timely reimbursement will result in disconnection of service as set forth in Section 2.1.8.
- (E) The customer shall submit certificates of insurance and copies of policies reflecting the coverage specified in (B) above at the time the ASR is placed. Commencement of work by the Telephone Company will not begin until these are received.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.7 Physical EIS (Cont'd)

16.7.5 Insurance & Liability Requirements (Cont'd)

- (F) The customer shall arrange for the customer's insurance company to provide the Telephone Company with thirty (30) days advance written notice of cancellation.

16.8 Virtual EIS

16.8.1 Availability of Service

- (A) Virtual EIS will be available to customers who prefer virtual form of EIS and where existing suitable space or other conditions prohibit the provision of physical EIS.
- (B) Virtual EIS provides the means to interconnect, through an optical channel interface, to specified intrastate Access Services. Virtual EIS provides:
 - (1) Connection between customer provided and Telephone Company provided fiber optic transport facilities at a meet point within the mutually agreed to Telephone Company designated space outside a Telephone Company central office, such as a manhole and

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.1 Availability of Service (Cont'd)

(B) (Cont'd)

(2) Conversion of optical to electrical signals, as appropriate, to allow interconnection between customer provided transport facilities and other specified interstate Telephone Company services.

(C) The interconnection point for virtual EIS is the demarcation between ownership of the cable facilities.

(D) The Telephone Company will designate locations close to the central office to be used as interconnection points for customer's facilities.

(E) None of the provisions of 16.5.4 apply or extend to any patron of the customer purchasing virtual EIS from the Telephone Company.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.2 Obligations of the Customer

- (A) When ordering virtual EIS, the customer shall designate the type of central office transmission equipment dedicated to their use. The customer may, subject to terms mutually acceptable to the customer and the Telephone Company, specify the multiplexing and other equipment that the Telephone Company uses to provide virtual EIS to the customer, which may be different from the equipment normally used by the Telephone Company to provide interstate Access Services.
- (B) The customer may monitor and control the performance of all facilities and equipment used in the provision of virtual EIS.
- (C) The customer is responsible for initiating a request for maintenance of customer's facilities and equipment.
- (D) The customer is responsible for costs associated with training as set forth in Section 20, Telephone Company employees to install and maintain equipment other than equipment normally used by the Telephone Company.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.2 Obligations of the Customer (Cont'd)

- (E) The Telephone Company and the customer will work cooperatively to determine equipment and facilities requirements.

16.8.3 Operation and Maintenance

Equipment and facilities used in the provision of virtual EIS will be installed, maintained and repaired by the Telephone Company. The Telephone Company and the customer will work cooperatively to negotiate the ICB rate. The Telephone Company will maintain and repair the customer's equipment under the same time frame and standards rate as its own equipment.

16.8.4 Customer Terminating Equipment Requirements

- (A) Customer equipment installed in the Telephone Company manhole or similar location must comply with either the Telephone Company's list of approved products, or equipment that complies with central office environmental and transmission standards in effect at the time the interconnection is made. This list of approved products and/or equipment is the same as used by the Telephone

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.4 Customer Terminating Equipment Requirements (Cont'd)

(A) (Cont'd)

Company and its contractors. EIS customers will be notified of any change in the Telephone Company's list of approved products and/or equipment.

(B) The customer shall be responsible for supplying the following:

Fiber Optic Cable and Fire Retardant Sheath
Equipment located within the central office.

(C) The customer shall be required to provide DS1 cable facilities in sufficient capacity for the Telephone Company to wire DS1 services in multiples of 28.

(D) The customer shall be responsible for bringing its fiber optic cable to the central office manhole and leave sufficient cable length in order for the Telephone Company to be able to fully extend such cable through to the customer's space. No splicing

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.4 Customer Terminating Equipment Requirements (Cont'd)

(D) (Cont'd)

will be permitted in the manhole. Upon discontinuance of EIS, the customer relinquishes all rights, title and ownership of cable to the Telephone Company.

(E) The Telephone Company is responsible for installing customer provided fiber optic cable in the cable space or conduit from the manhole to the central office. This may be shared conduit with dedicated inner duct. The customer shall not be permitted to reserve central office cable space or conduit. If new conduit is required, the Telephone Company will negotiate with the customer to determine the specific location. The Telephone Company reserves the right to manage its own central office conduit requirements and to reserve vacant space for planned facility additions.

(F) The Telephone Company is responsible for installing a cable splice where the customer provided fiber optic cable meets customer provided fire retardant riser cable within the central office

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16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.4 Customer Terminating Equipment Requirements (Cont'd)

(F) (Cont'd)

cable vault or designated splicing chamber. The Telephone Company will provide space and racking for the placement of the splice enclosure. The Telephone Company will tag all entrance facilities to indicate ownership. The Telephone Company is responsible for placing the customer's fire retardant riser cable from the cable vault to the terminating equipment. The customer is responsible for providing fire retardant riser cable that meets Telephone Company standards.

(G) Customer interconnection equipment installed with the Telephone Company's central office facilities shall be subject to and comply with Telephone Company practices for a.c./d.c. bonding and grounding requirements. This information will be provided to the customer in the general information packet.

(H) Upon installation of the customer's equipment, with prior notice, the Telephone Company will schedule time to work with the customer during

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.8 Virtual EIS (Cont'd)

16.8.4 Customer Terminating Equipment Requirements (Cont'd)

(H) (Cont'd)

the turn-up phase of the equipment to ensure proper functionality between the customer's equipment and the connections to the Telephone Company equipment. The time period for this to occur will correspond to the Telephone Company's maintenance window time period.

- (I) All equipment installed within the Telephone Company central office facilities shall meet the industry standard requirements as applicable for Physical EIS as in 16.7.4.

16.9 Rate Regulations

This section contains specific regulations governing the rates and charges that apply for EIS. These charges as set forth in Section 20 are in addition to the applicable rates and charges for the Switched Access or Special Access Service ordered, as specified in Sections 6 and 7 of this tariff.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges

There are two types of rates and charges. These are monthly rates and nonrecurring charges.

(A) Monthly Rates

Monthly rates are recurring charges that apply each month or fraction thereof that an EIS is provided. Monthly rates for EIS will commence upon completion of the customer's partitioned space, irrespective of when the Switched Access or Special Access service is connected.

(1) Partition Space Charge

Partition Space is a monthly recurring charge associated with the provision of the environmentally conditioned space in a specific central office. The Partition Space Charge applies on a per square foot basis.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(A) Monthly Rates (Cont'd)

(2) Cable Space Charge

The Cable Space Charge is a monthly recurring charge, applied per cable, associated with the space within the conduit, riser, cable racks, manhole and cable vault which the customer's cable occupies.

(3) d.c. Power

The d.c. Power Charge is a monthly recurring charge associated with the provision of d.c. power to the customer's space. The d.c. Power Charge applies on a per square foot basis to all physical EIS.

(4) Charges Related to Customer Equipment

For virtual EIS, monthly charges related to customer provided equipment will be developed on an individual case basis. These rates may include the following:

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(A) Monthly Rates (Cont'd)

(4) Charges Related to Customer Equipment (Cont'd)

(a) Terminating Lease Equipment - Customer Provided

The Terminating Lease Equipment - Customer Provided Charge is a monthly recurring charge which applies to virtual EIS arrangements for costs associated with all equipment that is purchased and provided by the customer. This charge is equal to the rate that the customer charges the Telephone Company for leasing the equipment. This charge includes:

- 1) Terminal equipment
- 2) Spare parts
- 3) Documentation
- 4) Required test equipment

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(A) Monthly Rates (Cont'd)

(4) Charges Related to Customer Equipment (Cont'd)

(b) Cable Lease

The Cable Lease charge is a monthly recurring charge associated with virtual EIS arrangements which recovers the costs associated with the cable from the manhole to the terminating equipment. The cable is provided by the customer and leased to the Telephone Company at a rate equal to the rate that the Telephone Company charges the customer.

(c) Auxiliary Terminating Equipment - Company Provided

The Auxiliary Terminating Equipment Charge is a monthly recurring charge applicable to virtual EIS arrangements for

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(A) Monthly Rates (Cont'd)

(4) Charges Related to Customer Equipment (Cont'd)

(c) Auxiliary Terminating Equipment - Company Provided (Cont'd)

costs associated with equipment provided by the Telephone Company. This charge is dependent upon the type of customer designated equipment including, but not limited to:

- 1) Racks and Patch Panels
- 2) Power
- 3) Floor space

(d) Maintenance

The Maintenance Charge is a monthly recurring charge which is applied to virtual EIS arrangements for costs associated with maintenance of the customer provided equipment.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity. The types of nonrecurring charges that apply for EIS are those listed below.

(1) Engineering Fee for Physical EIS

The Engineering Fee is associated with the work performed by the Telephone Company in connection with determining Telephone Company floor space requirements, designing cage space or separate room, engineering adequate amount of power to the area, calculating and designing heat, ventilation and air conditioning, ensuring adequate fire protection, designing proper access and security for customer entry.

The Engineering Fee applies on a per order, per central office basis, including requests to expand existing space for the same customer.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Cable Pull Charge

The Cable Pull Charge is associated with the work performed by the Telephone Company associated with the time and materials required to pull and splice the customer's cable from the manhole to the cage.

This charge applies per central office, per cable terminated.

(3) Office Arrangement

The Office Arrangement Charge is associated with work performed by the Telephone Company for the extension of power and construction of the cage or separate room where the customer's facilities will terminate. This charge applies on a per order, per central office basis.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(4) Building Modification Charge

The Building Modification Charge is associated with work performed by the Telephone Company to provide modifications to the central office to accommodate provisioning of EIS. These include, but are not limited to, security access card swipe equipment, construction of separate entrance/exit, construction of separate pathway or corridors, and/or additional security locks. This charge applies on a per order, per central office basis. Additional charges may apply for extraordinary improvements.

(5) Charges Related to Customer Equipment

For virtual EIS, nonrecurring charges related to customer provided equipment will be developed on an individual case basis. These charges may include the following elements:

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(5) Charges Related to Customer Equipment (Cont'd)

(a) Engineering Fee for Virtual EIS

The Engineering Fee for virtual EIS will be developed on a case-by-case basis and tariffed as requests are processed.

(b) Training

The Training Charge is associated with the costs incurred by the Telephone Company to train Telephone Company employees on the customer provided terminating equipment for the provision of virtual EIS.

ACCESS SERVICE

16. Expanded Interconnection Services (Cont'd)

16.9 Rate Regulations (Cont'd)

16.9.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(5) Charges Related to Customer Equipment (Cont'd)

(c) Equipment Installation

The Equipment Installation Charge is associated with the labor costs to install the terminating and associated equipment in the central office. This includes both customer provided and Telephone Company provided equipment for the provision of virtual EIS.

16.9.2 Minimum Periods

(A) The Minimum Period applicable to monthly EIS rate elements specified is six months.

(B) When EIS is discontinued prior to the expiration of the Minimum Period, charges are applicable for the remaining month(s) and/or fraction thereof of the Minimum Period.

ACCESS SERVICE

17. Mileage Measurement

17.1 General Description

The Telephone Company will provide Mileage Measurement and Serving Wire Center V and H Coordinates for Local Access and Transport Areas (LATAs) and Market Areas (MAs) necessary to compute the mileage on which certain Access Service rates are based.

17.2 Mileage Measurement

The methods utilized for the determination of Mileage Measurement and Serving Wire Center V and H Coordinates for Local Access and Transport Areas (LATAs) and Market Areas (MAs) are the same as those set forth in the National Exchange Carrier Association Tariff FCC No. 4.

ACCESS SERVICE

18. Reserved for future use.	
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ACCESS SERVICE

19. Reserved for future use.	
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ACCESS SERVICE

20. Rates and Charges

20.1 Carrier Common Line

Regulations concerning Carrier Common Line Service are set forth in Section 3 preceding.

	<u>Rate</u>
Originating, per Access Minute	\$.02370000
Terminating, per Access Minute	\$0.0

20.2 Access Ordering

Regulations concerning Access Ordering are set forth in Section 5 preceding.

(A) Service Date Change Charge	76.05
(B) FGD Maximum Per Trunk Cancellation Charge	530.10

Note: The End User Common Line rates previously found on this page can be found in Northwest Fiber, LLC Tariff FCC No. 1.

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.3 Switched Access

The Telephone Company adopts Section 7 and associated rates in Section 21 of the ZiPLY Fiber Telephone Companies Tariff FCC No. 1 (the Telephone Company's Interstate Access Tariff) effective as of June 18, 2020, and any successive issues as thereto. Exceptions to Switched Access rates listed in the Telephone Company's Interstate tariff are as follows:

20.3.1 <u>Operator Services</u>	<u>Rate</u>
Operator Transfer Service - per call transferred	\$ 0.35

20.3.2 Rate Exceptions

	<u>Originating Non-8YY</u>	<u>Terminating*</u>
LOCAL SWITCHING SERVICE CATEGORY		
Local Switching (LS1)	\$0.01293884	*
Local Switching (LS2)	\$0.01293884	*
Transitional (LS) NPREM	\$0.01293884	*
Switched 56Kpbs	\$0.01293884	*
TANDEM SWITCHED TRANSPORT SERVICE CATEGORY		
Tandem SW	\$0.04637629	*
Tandem SW Facility	\$0.00329082	*

* See Northwest Fiber Telephone Companies Tariff FCC No. 1 for Terminating rates.

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)	
20.3.3 <u>White Pages Surcharge</u>	<u>Rate</u>
Premium Rate, per Access Minute	\$0.0
Non-premium Rate, per Minute	0.0

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.4 Reserved for Future Use¹³

20.5 Special Federal Government Access Service

Regulations concerning Special Federal Government Access Services are set forth in Section 8 preceding.

20.5.1 Telecommunications Service Priority (TSP) System

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff which operate in conjunction with the TSP program.

(1) Establishment of TSP System Service

Nonrecurring Charge Per Circuit	14.50
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(2) Restoration Priority

Monthly Rate Per Circuit	4.90
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¹³ Service previously found in this section is now detariffed and deregulated.

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)		
20.6	<u>Miscellaneous Services</u>	
20.6.1	<u>Charges for Additional Labor</u>	
		First Half Hour or <u>Fraction Thereof</u>
		Each Additional Half Hour or <u>Fraction Thereof</u>
	Labor Periods	
	Basic Time, Business Day, Per Technician	\$55.62
		\$17.93
	Overtime, Outside the Business Day, Per Technician ¹⁴	59.14
		21.45
	Premium Time, Outside the Business Day, Per Technician ¹⁴	66.17
		28.48

¹⁴ A call out of a Telephone Company employee at a time not consecutive with the business day is subject to a minimum charge of four hours.

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)	
20.6 <u>Miscellaneous Services</u> (Cont'd)	
20.6.2 <u>Additional Testing</u>	
	<u>Rate</u>
(1) <u>Additional Automatic Scheduled Testing</u>	
Basic Offering to First Point of Switching per Transmission Path, per Month	\$0.45
(2) <u>Additional Cooperative Scheduled Testing</u>	
Basic Offering to First Point of Switching per Transmission Path, per Month	1.69
Gain-Slope-To First Point of Switching per Transmission Path, per Month	0.72
(3) <u>Additional Manual Scheduled Testing</u>	
Basic Offering to First Point of Switching per Transmission Path, per Month	3.37
Gain-Slope-To First Point of Switching per Transmission Path, per Month	1.43

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)	
20.6 <u>Miscellaneous Services</u> (Cont'd)	
20.6.3 <u>Provision of Access Services Billing Information</u>	
	<u>Charge</u>
Provision of Access Services Billing Information in Magnetic Tape Format	
Per Tape	\$50.00
Per Record	0.01
20.6.4 <u>Presubscription</u>	
	<u>Nonrecurring Charge</u>
<u>Equal Access Charges</u>	
Per Telephone Exchange Service Line, Trunk, Pay Telephone	
<u>Presubscription Change Charge</u>	
IntraLATA PIC Charge ¹⁵ – per line or trunk	
Manual Change	\$5.50
Electronic Change	1.25
IntraLATA PIC Change ¹⁵ - when made simultaneously with InterLATA PIC Change	
Manual Change	\$2.75
Electronic Change	.63

¹⁵ This charge is billed to the end user who is the subscriber to the Telephone Exchange Service or the agent of the pay telephone, except in situations when such charges would be billed to an IC.

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)	
20.6 <u>Miscellaneous Services</u> (Cont'd)	
20.6.4 <u>Presubscription</u>	
	<u>Nonrecurring Charge</u>
Unauthorized PIC Change Charge IntraLATA ¹⁶	\$100.00
20.7 <u>Special Construction</u>	
Regulations concerning Special Construction are set forth in Section 10 preceding	
Rates for this service will be developed on an ICB basis when demand occurs.	

¹⁶ This charge is billed to the IC submitting an unauthorized presubscription charge for any end user who is the subscriber to the Telephone Exchange Service.

ACCESS SERVICE

20. Rates and Charges (Cont'd)

20.8 Expanded Interconnection Services

Regulations concerning Expanded Interconnection Services are set forth in Section 16 preceding.

20.8.1 Nonrecurring Charges

	<u>Rate</u>
(A) Engineering fee for Physical EIS - per order, per central office	ICB
(B) Cable Pull Charge - per central office per cable terminated	ICB
(C) Office Arrangement - per order, per central office	ICB
(D) Building Modification Charge - per order, per central office	ICB

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)		
20.8 <u>Expanded Interconnection Services</u> (Cont'd)		
20.8.1 <u>Nonrecurring Charges</u> (Cont'd)		
		<u>Rate</u>
(E)	Charges Related to Customer Equipment	
(1)	Engineering fee for Virtual EIS	ICB
(2)	Training	ICB
(3)	Equipment Installation	ICB
20.8.2	<u>Recurring Charges</u>	Monthly <u>Rate</u>
(A)	Partition Space Charge - per square foot	ICB
(B)	Cable Space Charge - per cable	ICB
(C)	d.c. Power - per square foot	ICB

ACCESS SERVICE

20. <u>Rates and Charges</u> (Cont'd)		
20.8 <u>Expanded Interconnection Services</u>		
20.8.2 <u>Recurring Charges</u> (Cont'd)	Monthly	<u>Rate</u>
(D) Charges Related to Customer Equipment		
(1) Terminating Lease Equipment Customer Provided	ICB	
(2) Cable Lease		ICB
(3) Auxiliary Terminating Equipment Company Provided	ICB	
(4) Maintenance	ICB	