

ACCESS SERVICE TARIFF

Containing

Regulations, Rates and Charges  
applying to the provision of Access Services  
within a Local Access and Transport Area (LATA) for  
connection to intrastate communications facilities  
for customers in the State of West Virginia  
by  
Frontier West Virginia Inc.

The name Verizon West Virginia Inc. and Bell Atlantic - West Virginia, Inc. have been changed to Frontier West Virginia Inc. All references throughout this Tariff to Verizon West Virginia Inc. and Bell Atlantic - West Virginia, Inc., "the telephone company" or "the company" shall be read as Frontier West Virginia Inc.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 09-0871-T-PC Dated May 13, 2010.

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Frontier West Virginia Inc.

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Frontier West Virginia Inc.

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# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use.

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ACCESS SERVICE TARIFF  
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Frontier West Virginia Inc.

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# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)  
|  
(N)

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Effective: April 15, 2005

APPLICATION OF TARIFF

A. GENERAL

This tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line, Switched Access and Special Access Services, and other miscellaneous services, hereinafter referred to collectively as service(s), provided by Frontier West Virginia Inc., hereinafter referred to as the Telephone Company, to customers.

B. REGULATIONS

1. Explanation of Symbols

The following symbols apply to this tariff.

(C)	Indicates change in text or regulations	(C)
(D)	Indicates a decrease in rates	
(I)	Indicates an increase in rates	(C)
(M)	Indicates moved material	(N)
(N)	Indicates new rates or regulations	(C)
(O)	Indicates omissions	(N)
(T)	Indicates temporary rates and/or surcharges	(C)
		(O)
		(O)

2. Explanation of Abbreviations

The following abbreviations apply to this tariff.

ac	- alternating current
AML	- Actual Measured Loss
ANI	- Automatic Number Identification
AP	- Program Audio
AT&T	- American Telephone and Telegraph Company
BD	- Business Day
BHMC	- Busy Hour Minutes of Capacity
BSA	- Basic Service Arrangement
BSE	- Basic Service Element
CAROT	- Centralized Automatic Reporting on Trunks
CEC	- Cellular Exchange Carrier
CI	- Channel Interface
CN	- Charge Number
CO	- Central Office
COCTX	- Central Office Centrex
Cont'd	- Continued
CPE	- Customer-provided Equipment
CPN	- Calling Party Number
CSP	- Carrier Selection Parameter
Ctx	- Centrex
DA	- Directory Assistance
dB	- decibel
dBrnC	- Decibel Reference Noise C-Message Weighting
dBrnC0	- Decibel Reference Noise C-Message Weighted 0
dBv	- decibel(s) relative to 1 Volt (reference)

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APPLICATION OF TARIFF

B. REGULATIONS (Cont'd)

2. Explanation of Abbreviations (Cont'd)

The following abbreviations apply to this tariff. (Cont'd)

dbvl	- decibel(s) Relating to 1 Volt (Reference)
dc	- direct current
DNAL	- Dedicated Network Access Link
EDD	- Envelope Delay Distortion
ELEPL	- Equal Level Echo Path Loss
EML	- Expected Measured Loss
EPL	- Echo Path Loss
ERL	- Echo Return Loss
ESS	- Electronic Switching System
ESSX	- Electronic Switching System Exchange
f	- frequency
FID	- Field Identifier
F.C.C.	- Federal Communications Commission
FX	- Foreign Exchange
HC	- High Capacity
Hz	- Hertz
IC	- Interexchange Carrier
ICB	- Individual Case Basis
ICL	- Inserted Connection Loss
kbps	- kilobits per second
kHz	- kilohertz
LATA	- Local Access and Transport Area
Ma	- milliamperes
Mbps	- Megabits per second
MHz	- Megahertz
MMUC	- Minimum Monthly Usage Charge
MRC	- Monthly Recurring Charge
MT	- Metallic
MTS	- Message Telecommunications (long distance) Service(s)
MTSO	- Mobile Telephone Switching Office
NB	- Narrowband
NPA	- Numbering Plan Area
NRC	- Nonrecurring Charge
NST	- Nonscheduled Testing
NXX	- Three-digit Central Office Code
OTPL	- Zero Transmission Level Point
OTS	- Operator Transfer Service
PBX	- Private Branch Exchange
PCM	- Pulse Code Modulation
PLR	- Private Line Ringdown
POT	- Point of Termination
rms	- root-mean-square
RSM	- Remote Switching Modules

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APPLICATION OF TARIFF

B. REGULATIONS (Cont'd)

2. Explanation of Abbreviations (Cont'd)

The following abbreviations apply to this tariff. (Cont'd)

RSS	- Remote Switching Systems
SRL	- Singing Return Loss
SSN	- Switched Service Network
SWC	- Serving Wire Center
TES	- Telephone Exchange Service(s)
TLP	- Transmission Level Point
TSPS	- Traffic Service Position System
TV	- Television
VG	- Voice Grade
V & H	- Vertical & Horizontal
WA	- Wideband Analog
WATS	- Wide Area Telecommunications Service(s)
WD	- Wideband Digital

3. The provision of such services by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with the customer for the furnishing of any service.
4. The regulations, rates and charges contained herein are in addition to the applicable regulations, rates and charges specified in other tariffs of the Telephone Company which are referenced herein.
5. Reference to Other Tariffs

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

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company

2.1.1 Scope

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

2.1.2 Limitations

- (A) The customer may not assign or transfer the use of services provided under this tariff; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:
  - (1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or
  - (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.

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) (Cont'd)

(2) (Cont'd)

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

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

(B) The use and restoration of services shall be in accordance with the practices of the Telephone Company.

(C) Subject to compliance with the rules mentioned in (B) preceding, where a shortage of facilities or equipment exists at any time, either for temporary or protracted periods, the services offered herein will be provided to customers on a first-come, first-served basis.

2.1.3 Liability

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

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

- (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.
- (C) The Telephone Company is not liable for damages to the customer's premises resulting from the furnishing of a service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.
- (D) The Telephone Company shall be indemnified, defended and held harmless by the end user against any claim, loss or damage arising from the end user's use of services offered under this tariff, involving:
  - (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;
  - (2) Claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the IC or end user or;
  - (3) All other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this tariff.
- (E) The Telephone Company shall be indemnified, defended and held harmless by the IC against any claim, loss or damage arising from the IC's use of services offered under this tariff, involving:
  - (1) Claims for libel, slander, invasion of privacy, or infringement or copyright arising from the IC's own communications;
  - (2) Claims for patent infringement arising from the IC's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or IC or;

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GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(E) (Cont'd)

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

(F) The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.

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

(H) The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4 following.

2.1.4 Provision of Services

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

Telecommunications Service Priority System, a service which provides for priority installation and restoration of certain telecommunications services designated by the Federal Government, is offered as specified in the Miscellaneous Service Arrangements Tariff.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.5 Installation and Termination of Services

The services provided under this tariff 1) will include any entrance cable or drop wiring and wire or intrabuilding cable to that point on a customer-designated premises where provision is made for termination of the Telephone Company's outside distribution network facilities and 2) will be installed by the Telephone Company. Such point of termination will be located at a minimum point of penetration to the premises, as determined by the Telephone Company, and accessible to the customer. For services where through-testing and/or connecting equipment are required beyond the point of termination, such through testing and/or connecting equipment (excluding wire) will be provided as part of that service and any wire required beyond the point of connection may be provided by either the Telephone Company or the customer.

2.1.6 Maintenance of Services

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

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to F.C.C. Part 68 regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, A) substitute, change or rearrange any facilities used in providing service under this tariff, including but not limited to, 1) substitution of different metallic facilities, 2) substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities and 3) substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities, B) change minimum protection criteria, C) change operating or maintenance characteristics of facilities or D) change operations or procedures of the Telephone Company. In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Sections 6 and 7 following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer-furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or

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GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions (Cont'd)

rearrangement materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

2.1.8 Refusal and Discontinuance of Service

- (A) Unless the provisions of 2.2.1(B) or 2.5 following apply, if a customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.4, 2.3.5 or 2.4 following, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days' written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of noncompliance, refuse additional applications for service and/or refuse to complete any pending orders for service by the noncomplying customer at any time thereafter.

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

- (B) Unless the provisions of 2.2.1(B) or 2.5 following apply, if a customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.4, 2.3.5 or 2.4 following, including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by that customer to receive such notices of non-compliance, discontinue the provision of the services to the noncomplying customer at any time thereafter. In the case of such discontinuance, all applicable charges, including termination charges, shall become due. If the Telephone Company does not discontinue the provision of the services involved on the date specified in the thirty days notice, and the customer's non-compliance continues, nothing contained herein shall preclude the Telephone Company's right to discontinue the provision of the services to the noncomplying customer without further notice.

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GENERAL REGULATIONS

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Limitation of Use of Metallic Facilities

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

2.1.10 Notification of Service-Affecting Activities

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

2.1.11 Coordination with Respect to Network Contingencies

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

2.1.12 Provision and Ownership of Telephone Numbers

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

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GENERAL REGULATIONS

2.2 Use

2.2.1 Interference or Impairment

- (A) The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.
- (B) Except as provided for equipment on systems subject to the F.C.C. Part 68 rules in 47 C.F.R. Section 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude the Telephone Company's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the customer 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, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

2.2.2 Unlawful Use

The service provided under this tariff shall not be used for an unlawful purpose.

2.3 Obligations of the Customer

2.3.1 Damages

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

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.3 Obligations of the Customer

2.3.1 Damages (Cont'd)

customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

Facilities furnished by the Telephone Company to provide service under the provisions of this tariff shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested, within a reasonable period following the request in as good condition as reasonable wear will permit.

2.3.3 Equipment Space and Power

The customer shall furnish or arrange to have furnished to the Telephone Company, at no charge, equipment space and electrical power required by the Telephone Company to provide services under this tariff at the points of termination of such services. The selection of ac or dc power shall be mutually agreed to by the customer and the Telephone Company. The customer shall also make necessary arrangements in order that the Telephone Company will have access to such spaces at reasonable times for installing, testing, repairing or removing Telephone Company services.

2.3.4 Availability for Testing

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

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GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.5 Balance

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

2.3.6 Design of Customer Services

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

2.3.7 References to the Telephone Company

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

2.3.8 Claims and Demands for Damages

- (A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.
- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the 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

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.8 Claims and Demands for Damages (Cont'd)

(B) material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees.

(C) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this tariff.

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.

Material formerly found on this page now appears on Original Page 12a and 1st Revised Page 13.

(N)  
(N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.3 Obligations of the Customer (C)

2.3.10 Jurisdictional Report Requirements (C)

(A) Jurisdictional Reports

(1) Percent Interstate Usage (PIU) (C)

(a) When the Telephone Company receives sufficient call detail to permit it to determine the jurisdiction of some or all originating and terminating access minutes of use, the Telephone Company will use that call detail to render bills for those minutes of use and will not use customer reported Percent Interstate Usage (PIU) factors for the jurisdiction of those minutes of use. (C)(M)

The Telephone Company will apply the PIU factor, either provided by the customer as set forth in (A)(1)(c) or (A)(3) - only to minutes of use for which the Telephone Company does not have sufficient call detail to determine jurisdiction. The customer-reported PIU factor will be used until the customer provides an updated PIU factor, as set forth in (A)(3) following. No prorating or back billing will be done based on the updated report. (C)(M)

There may be some portion of terminating minutes where it is not possible to know, and therefore to send, the needed originating number information. A "floor" of 7.00 percent(%) will be set for terminating access minutes lacking originating number information for all switched access customers. (N)

When the percentage of terminating traffic without sufficient call detail to determine jurisdiction does not exceed the sum of the floor plus a 2.00 percent (%) grace threshold or 9.00 percent (%), the Telephone Company will apply the PIU factor, either provided by the customer or as set forth in section (A)(1)(b). (N)

\* Material previously on this page now appears on 2nd Revised Page 14. (N)  
(M) Material now appearing on this page previously appeared on Original Page 12a. (N)

Frontier West Virginia Inc.

Section 2  
1st Revised Page 12a  
Cancels Original page 12a

GENERAL REGULATIONS

2.3 Obligations of the Customer

2.3.10 Jurisdictional Report Requirements (Cont'd) (C)

(A) Jurisdictional Reports (Cont'd) (C)

(1) Percent Interstate Usage (PIU) (Cont'd)

(a) (Cont'd)

- ii When the percentage is greater than 9.00 percent (N)  
the Telephone Company will assess rates from this tariff on all minutes exceeding the floor. For example, if 30 percent (%) of a customer's terminating minutes sent to the Telephone Company do not contain sufficient originating information to allow the Telephone Company to determine the originating location, then the Telephone Company would apply the provisions of this tariff to those minutes exceeding the "floor", or 23.00 percent (%) in this example.
- iii In the event that the Telephone Company applies rates to terminating calls without originating number information as provided in this tariff, customers will have the opportunity to request backup documentation of the Telephone Company's basis for such application, and further request that the Telephone Company change the application of the intrastate access rate upon a showing of why the intrastate rate should not be applied. (N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. 08-0047-T-T\_\_\_\_\_ dated 2-6-08.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) Percent Interstate Usage (PIU) (Cont'd)

(b)

(C)(M)

When the customer initially orders Switched Access Service(s), the customer will state in its order (Access Service Request) a PIU factor. This factor will be used by the Telephone Company as the customer-provided PIU factor until the customer provides updated PIU factors, as required in (A)(3) following. For each service listed below, the customer may provide separate PIU factors in accordance with section (A)(1)(a) preceding.

- Lineside BSA (Notes 1,2,3)
- Feature Group A (Notes 1,2,3)
- Feature Group A FX/ONAL (Notes 2,3)
- Trunkside BSA-950 Option (Notes 1,2,3)
- Trunkside BSA-MTS/WATS Option (Notes 2,3)
- Trunkside BSA-101XXX Option (Notes 2,3)
- Feature Group B (Notes 2,3)
- Feature Group D (Notes 2,3)
- Toll Free Services (Notes 2,3,4)
- Directory Assistance Service (Notes 2,5)

Note 1: Services that do not have recording capability will be designated as interstate services.

Note 2: The PIU factors will apply to all associated elements and services, e.g., Carrier Common Line, Interconnection, Local Switching, Tandem Switched Transport, and Tandem Switching, where applicable.

Note 3: The customer has the option to provide the Telephone Company with both an originating and a terminating PIU factor for each account or state from which the customer may originate and/or terminate traffic.

Note 4: "Toll Free" service includes any access service which utilizes the following NPAs: 800, 888, 877, 866, 855, 844, 833, and 822 as they become available to the industry.

Note 5: The customer shall provide a PIU factor for each Directory access service group ordered.

(M) Indicates material transferred from Original Page 13a. (N)

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) Percent Interstate Usage (PIU) (Cont'd)

(b) (Cont'd)

(C)

When the customer provides PIU factors, the Telephone Company will subtract the developed PIU factor from 100 and the difference is the percent intrastate usage. The sum of the interstate and intrastate percentages will equal 100 percent. The customer may only provide a PIU factor that is a whole number (a number from 0 to 100).

(M)

(C)

Where the customer provides access services to other carriers, the customer will develop its projected PIU factor based upon a weighted average of the PIUs of its own and of the other carriers' end user traffic, in accordance with the procedures described below.

For multiline hunt group or trunk group arrangements where either the interstate or the intrastate charges are based on measured usage, the intrastate Lineside BSA, Trunkside BSA-950 Option, Feature Group A and/or Feature Group B Switched Access Service(s) information reported as set forth above will be used to determine the charges. For all groups, the number of access minutes (either the measured minutes or the assumed minutes) for a group will be multiplied by the PIU factor to develop the interstate access minutes. The number of access minutes for the group minus the developed interstate access minutes for the group will be the developed intrastate access minutes.

If a state level PIU factor is provided by the customer, the percentage will be applied to all accounts from which the customer may originate traffic within the state.

(M)

(M) Indicates material transferred from 1st Revised Page 14.

\* Material previously on this page now appears on 2nd Revised Page 13.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 08-0047-T-T dated 2-6-08.



Frontier West Virginia Inc.

Section 2  
2nd Revised Page 14  
Cancels 1st Revised Page 14

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) Percent Interstate Usage (PIU) (Cont'd)

(c) For purposes of developing the projected interstate percentage for Feature Group C (or Trunkside BSA-MTS/WATS Option) and Feature Group D (or Trunkside BSA-101XXXX Option), the customer shall consider every call, that originates from a calling party in one state and terminates to a called party in a different state, to be interstate communications. The customer shall consider every call that terminates to a called party within the same state as the state where the calling party is located, to be intrastate communications. The manner in which a call is routed through the telecommunications network does not affect the jurisdiction of a call, i.e., a call between two points within the same state is an intrastate call even if it is routed through another state.

(M)

For Feature Group A (or Lineside BSA) and Feature Group B (or Trunkside BSA-950 Option), pursuant to Federal Communications Commission order FCC 85-145 adopted April 16, 1985, interstate usage is to be developed as though every call, that enters a customer network at a point within the same state as that in which the called station is situated, is an intrastate communication and every call, that enters a customer's network at a point in a state other than that where the called station is situated, is an interstate communication.

(M)

(M) Indicates material transferred from 1st Revised Page 12.

\* Material previously on this page now appears on 1st Revised Page 13a.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 08-0047-T-T dated 2-6-08.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

- (2) Switched Access Service Entrance Facilities, Direct-Trunked Transport Facilities, and Dedicated End Office and Access Tandem Trunk Ports

The Telephone Company will develop a PIU factor to apply to Entrance Facility, Direct-Trunked Transport and Dedicated End Office and Access Tandem Trunk Ports rate elements when sufficient call data exists. The Telephone Company will apply the PIU factor provided by the customer as set forth in (A)(3) only when the Telephone Company does not have sufficient data to develop a PIU factor. (N)

(a) Entrance Facilities and Direct Trunked Transport Facilities

- i A customer may provide a separate PIU factor for each rate element(Entrance Facilities and Direct Trunked Transport)at a Billing Account Number or higher reporting level reflecting the originating and terminating traffic of all services using these facilities. A consolidated PIU factor for all Entrance Facility and Direct-Trunked Transport elements may be provided at the option of the customer if such PIU is representative of the actual interstate use of the service. (C)
- (D)
- (D)
- ii If a customer is providing or sharing a facility with other carriers, the PIU factor for the Entrance Facilities and Direct Trunked Transport may be developed using multiple PIU factors. In this situation, the calculation to determine the facility PIU using PIU factors must be provided with the quarterly jurisdictional report. (C)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 08-0047-T-T dated 2-6-08.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(2) Switched Access Service Entrance Facilities, Direct-Trunked Transport Facilities, and Dedicated End Office and Access Tandem Trunk Ports

(b) Dedicated End Office and Access Tandem Trunk Ports

In addition to the report requirements set forth in (A)(1) and (A)(2)(a) preceding and (A)(3) following, the customer must provide an interstate PIU factor in a whole number For Dedicated End Office or Access Tandem Trunk Ports, using a single PIU factor per state or Billing Account Number. For the initial establishment of Switched Access Service, the Telephone Company will utilize the customer-provided PIU factor reported on the customer's Access Service Request as the PIU factor for Dedicated End Office and Access Tandem Trunk Ports. These PIU factors will be used in determining the monthly rates to be applied for the Dedicated Trunk Ports as set forth in Section 2.3.11.

(C)  
|  
(C)

(3) Jurisdictional Report Updates

Effective on the first of January, April, July and October of each year, the customer may update the interstate and intrastate jurisdictional reports. The customer shall forward to the Telephone Company, to be received no later than 15 days after the first of each such month, a revised report or letter for all services showing the interstate percentage of use for the past three months ending the last day of December, March, June and September, respectively. In the event that the Telephone Company does not have sufficient data to calculate PIU factors, these factors will be applied to activity dated on or after the first day of the next calendar month, which begins at least 15 business days after the day on which the revised report or letter is received.

(C)  
(C)  
  
(C)(N)

If the revised factors represent what the Telephone Company considers to be a substantial deviation (a deviation of 5 (five) percentage points or more for the preceding twelve calendar months is a substantial deviation) from the customer's previously reported factors and cannot be attributed to seasonal changes or other identifiable reasons, the Telephone Company will request a Jurisdictional Report Verification of the factors as set forth in (C) following.

In the event the Telephone Company does not have sufficient data to rely on actual call detail or to develop a PIU factor, the revised report or letter will serve as the basis for the next three months' billing and will be effective on the bill date for that service. If the customer does not supply an updated quarterly report or letter, the Telephone Company will assume the customer-provided PIU factors to be the same as those provided in the last quarterly report or letter accepted by the Telephone Company.

(N)

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(B) Maintenance of Customer Records (C)

The customer shall retain, for a minimum of twelve months, call detail records that substantiate the interstate percent provided to the Telephone Company as set forth in (A) preceding for switched access service. Such records shall consist of (1) and (2) following, if applicable:

- (1) All call detail records (such as work papers and/or backup documentation including paper, magnetic tapes or any other form of records for billed customer traffic); call information (including call originating and terminating address (i.e., calling, called number), the call duration, all originating and terminating trunk groups or access lines over which the call is routed); and the point at which the call enters the customer's network and (C)  
(C)
- (2) If the customer has a mechanized system in place that calculates the PIU factor, then a description of that system and the methodology used to calculate the PIU factor must be furnished and any other pertinent information (such as but not limited to flowcharts, source code, etc.) relating to such system must also be made available. (C)  
(C)

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(3) Jurisdictional Report Updates (Cont'd)

(N)

For those cases in which a quarterly report or letter has never been received from the customer, the Telephone Company will assume the customer-provided PIU factors to be the same as provided in the order for service.

(C) Jurisdictional Reports Verification

The Telephone Company may request the customer to verify their jurisdictional reports. The customer shall keep records of call detail from which the percentage of interstate and intrastate use can be ascertained. The Telephone Company will request the customer to provide the records of call detail and other information as specified in (B) preceding, that the customer uses to determine the percentage of interstate and intrastate use in some or all of the states where the customer has provided such factors. No more than one verification request per state will be made per year.

1. If the PIU factors filed by the customer cannot be validated by the data provided, and the data provided by the customer is sufficient to calculate a PIU factor different than the customer's reported PIU factor, the Telephone Company will use these records to:
  - a. Revise the customer's PIU factor.
  - b. Calculate the interstate and intrastate access charges that should have been billed to the customer for the prior period specified in (B) preceding that the inaccurate PIUs had been used and debit or credit the customer for the difference between the charges that should have been billed with the revised PIU and the charges that were billed.
2. The customer shall supply the data to the Telephone Company within 30 days of the Telephone Company request. The Telephone Company will request data for the prior four quarters unless a shorter period is requested by the customer and agreed to by the Telephone Company.

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports Verification(Cont'd)

(N)

3. If the customer fails to supply data (as specified in (B) preceding) within 45 calendar days of the Telephone Company's request, sufficient for the Telephone Company to substantiate or determine PIU factors, then:
  - a. The Telephone Company will apply a default PIU factor of 50% to the traffic for which the Telephone Company does not have sufficient call detail to determine the jurisdiction of the traffic ("unknown jurisdiction" usage) (i.e., 50% of the unknown jurisdiction usage will be billed under the interstate jurisdiction and 50% of the unknown jurisdiction usage will be billed under the intrastate tariff) in lieu of the PIU factors last submitted by the customer.
  - b. The Telephone Company will apply the default PIU factor to all future access minutes of use with unknown jurisdiction beginning with the first bill date following the 45 calendar day period during which the customer was to submit the records of call detail requested by the Telephone Company. The application of the default PIU factor will continue until the customer provides the Telephone Company with records of call detail or other data that are sufficient for the Telephone Company to substantiate the customer-provided PIU factors.

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(D) Contested Jurisdictional Reports

(N)

If the Telephone Company determines that the customer-provided PIUs are inaccurate, after reviewing the data provided by the customer, then the Telephone Company will report the results of the analysis to the customer by Certified U.S. Mail (return receipt requested). The Telephone Company will request that the customer provide updated PIU factors consistent with those contained in the Telephone Company's report.

If the Telephone Company applies the revised or default PIU factor to the customer's account as provided in (C) preceding in lieu of the customer-provided PIU factor, the customer may contest application of the revised or default PIU by providing written notification, by Certified U.S. Mail (return receipt requested), to the Telephone Company within thirty (30) calendar days from the date the revised or default PIU is applied or the date that the Telephone Company provides notice to the customer of its decision to apply the revised or default PIU. The customer may request that the dispute be resolved by a neutral arbitrator mutually agreed upon by the Telephone Company and the customer. Arbitration is an option provided in addition to the customer's existing right to file a complaint or legal action in a court of law or at the West Virginia Public Service Commission for resolution of the dispute. The arbitration hearing will be conducted in a state or location within the Telephone Company operating territory where the customer maintains its principal place of business or at a location within the Telephone Company operating territory that is mutually agreed upon by both parties. The arbitration procedures shall be governed by the law (both statutory and case) of the state in which the arbitration hearing is held, including, but not limited to, the Uniform Arbitration Act, as adopted in that state. The arbitrator shall determine the customer's PIU for each category of traffic based on the standards in (A) preceding.

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(D) Contested Jurisdictional Reports (Cont'd)

(N)

Prior to the arbitration hearing, each party shall notify the arbitrator of the PIU factor(s) which that party believes to be correct. The arbitrator, in deciding, may adopt the PIU of either party or may adopt a PIU different from those proposed by the parties. If the arbitrator adopts a PIU proposed by one of the parties, the other party (whose PIU was not adopted) shall pay all costs of the arbitration. If the arbitrator adopts a PIU higher than either of the PIU proposed by the parties, then the party proposing the lower PIU shall pay all costs of the arbitration. If the arbitrator adopts a PIU lower than either of the PIU proposed by the parties, then the party proposing the higher PIU shall pay all costs of the arbitration. If the arbitrator adopts a PIU which falls between the two adopted by the parties, then the parties shall each pay one-half of the arbitration costs.

The PIU factor(s) for each category of traffic determined by the arbitrator will be applied by the Telephone Company to all future access minutes of use with unknown jurisdiction from that customer until the customer provides the Telephone Company with records of call detail or other data that are sufficient for the Telephone Company to substantiate the customer-provided PIU factors.

Absent the customer's written notification, within the timeframe noted above, the customer must comply with the provisions set forth in (B) & (C) preceding. If the customer fails to comply with these provisions, the customer will be in violation of this tariff and the Telephone Company may refuse additional applications for service and/or refuse to complete any and all pending orders for service or may discontinue the provision of services to the customer as specified in Section 2.1.8 preceding.

The Telephone Company retains the right to pursue any and all other legal remedies, whether in addition to, or in lieu of, the above procedures, to recover any under-billed switched access charges associated with incorrect customer-provided PIU factors under the applicable interstate or intrastate tariffs.

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.



GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.10 Jurisdictional Report Requirements (Cont'd)

(E) Special Access Jurisdictional Verification

If a billing dispute arises or a regulatory commission questions the projected PIU factor, the Telephone Company will ask the customer to provide the data the customer uses to determine the certified interstate percentage. The customer shall supply the data within 30 days of the Telephone Company request.

The customer shall keep records of system design and functions from which the percentage was determined, and upon request of the Telephone Company make the records available for inspection as reasonably necessary for purposes of verification of the percentages.

if the customer fails to comply with these provisions, the customer will be in violation of this tariff and the Telephone Company may refuse additional applications for service and/or refuse to complete any and all pending orders for service or may discontinue the provision of the services to the customer as specified in Section 2.1.8 preceding.

2.3.11 Determination of Intrastate Charges for Mixed Interstate and Intrastate Access Service

When mixed interstate and intrastate Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between interstate and intrastate. The percentage provided in the reports as set forth in 2.3.10(A) preceding will serve as the basis for prorating the charges. The percentage of an Access Service to be charged as intrastate is applied in the following manner:

- (A) For monthly and nonrecurring chargeable rate elements, multiply the percent intrastate use times the quantity of chargeable elements times the stated tariff rate per element.
- (B) For usage sensitive (i.e., access minutes and calls) chargeable rate elements, multiply the percent intrastate use times actual use (i.e., measured or Telephone Company assumed average use) times the stated tariff rate. (M)

The intrastate percentage will change as revised usage reports are submitted as set forth in 2.3.10 preceding. (M)

(M) Indicates material transferred from 1st Revised Page 15. (C)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 14-1542-T-T dated September 10, 2014.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

2.3.12 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 its Report and Order in WC Docket Nos. 10-90, etc., FCC Release No. 11-161 (Nov. 18, 2011) ("FCC Order"). Specifically, this section establishes the method of separating such traffic (referred to in this tariff as "Relevant VoIP-PSTN Traffic") from the customer's traditional intrastate access traffic, so that such Relevant VoIP-PSTN Traffic can be billed in accordance with the FCC Order.
- (2) This section will be applied to the billing of switched access charges to a customer that is a local exchange carrier only to the extent that the customer has also implemented billing of interstate access charges for Relevant VoIP-PSTN Traffic in accordance with the FCC Order.

(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 and can also be found in Section 6.9.5 of this tariff.

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

(N)  
|  
(N)

\* Some material previously shown on this page now appears on 1st Revised Page 14h. (C)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 14-1542-T-T dated September 10, 2014.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

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

(N)

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

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

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

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 11-1781-T-T dated March 29, 2012.

GENERAL REGULATIONS

2.3 Obligations of the Customer (Cont'd)

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

(N)

(D) Initial PVU Factor

If the PVU factor is not available and/or cannot be implemented in the Telephone Company's billing systems by March 29, 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 March 29, 2012. This retroactive adjustment will be made to March 29, 2012, provided that the customer provides the factor to the Telephone Company no later than April 15, 2012; otherwise, it will set the initial PVU equal to zero, as specified in subsection (C)(1), above.

(E) PVU Factor Updates

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

(F) PVU Factor Verification

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

(G) Notwithstanding anything in the forgoing to the contrary, this tariff is subject to the modifications contained in the Federal Communications Commission Order in *In the Matter of Connect America Fund, Second Order on Reconsideration* (April 25, 2012) and further Order of the Public Service Commission of West Virginia.

(N)

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances

(M)

2.4.1 Payment of Rates, Charges and Deposits

- (A) The Telephone Company will, in order to safeguard its interests, only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer 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. Such deposit may not exceed the actual or estimated rates and charges for the service for a two-month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded. Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the rate specified in the General Regulations Tariff for Deposits. Should a deposit be credited to the customer's account, as indicated preceding, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

(M)

(M) Material appearing on this page previously appeared on Original Page 15.

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 11-1781-T-T dated March 29, 2012.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

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

- (1) For Presubscription Service, the Telephone Company will establish a bill day each month for each end user account. The bill will cover Presubscription Service charges for the ensuing billing period except for Presubscription Service for the Federal Government which will be billed in arrears. Any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for Presubscription Service will be applied to this bill. Such bills are due when rendered.
- (2) For Service other than Presubscription Service, the Telephone Company will establish a bill day each month for each customer account. The bill will cover nonusage sensitive service charges except Lineside BSA, Trunkside BSA-950 Option, Feature Group A and B per-month charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges and Lineside BSA, Trunkside BSA-950 Option, Feature Group A and B per-month charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and any known unbilled adjustments will be applied to this bill. Payment for such bills is due as set forth in (3) following. If payment is not received by the payment date, as set forth in (3) following in immediately available funds, a late payment penalty will apply as set forth in (3) following.
- (3) (a) All bills dated as set forth in (2) preceding for service, other than Presubscription Service, provided to the customer by the Telephone Company are due 31 days (payment date) after the bill day, or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval,

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

(3) (a) (Cont'd)

except as provided herein, and are payable in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for such bills will be due from the customer as follows:

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

(b) Further, if any portion of the payment is received by the Telephone Company after the payment date as set forth in (a) preceding, or if any portion of the payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

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

(II) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) (Cont'd)

(3) (Cont'd)

(c) In the event that a billing dispute concerning any charges billed to the customer by the Telephone Company is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to the late payment penalty set forth in (b) preceding. If the customer disputes the bill on or before the payment date, and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until 10 days after the payment date. If the billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. In addition, if the customer disputes the billed amount and pays the total amount (i.e., the nondisputed amount and the disputed amount) on or before the payment date and the billing dispute is resolved in the favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company if the billing dispute is not resolved within 10 working days following the payment date or the date the customer furnishes to the Telephone Company documentation to support its claim plus 10 working days, whichever date is the later date. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor. The penalty factor is as set forth in (b) preceding.

(C) When a payment for Access Service charges billed under this Tariff is due to the Telephone Company from the customer as set forth in (B)(3) preceding on the same payment date that a Settlement Accounts Receivable net purchase amount is due to the customer from the Telephone Company, the Telephone Company may, with at least 15 days' notice to the customer, net the payment for customer Access Service Charges with the settlement amount. The Telephone Company will pay the net amount to the customer on the payment date when such net amount is due to the customer or require the customer to pay to the Telephone Company the net amount when such net amount is due to the Telephone Company. If either party does not make the payment on the payment date, a late payment penalty, as set forth in (B)(3) preceding applies.

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

- (D) Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days or major fraction 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.
- (E) When a rate as set forth in this tariff is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).
- (F) When more than one copy of a customer bill for services provided under the provisions of this tariff is furnished to the customer, an additional charge applies for each additional copy of the bill as set forth in 13.3.5 following.

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those services set forth in 5.2.5(C), 9.4(A) and 13.3.4(C)(1)(b), (c) and (d) following.

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

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

- (A) When a service with a one-month minimum period is discontinued prior to the expiration of the minimum period, a one-month charge will apply at the rate level in effect at the time service is discontinued.

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods (Cont'd)

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

2.4.3 Cancellation of an Order for Service

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

2.4.4 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in 6.5.1 following. An interruption period starts when Telephone Company personnel are notified by the customer that the service is inoperative and ends when the service is operative.

(B) When A Credit Allowance Applies

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

(1) For services, other than those mentioned in (2) and (6) following, credits for interruptions shall be:

(a) Switched Access

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 the monthly charge for the service for each period of 24 hours or major fraction thereof that the interruption continues from the time Telephone Company personnel are notified by the customer that an interruption has occurred.

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GENERAL REGULATIONS

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)

(b) Special Access or Switched Transport

No credit shall be allowed for an interruption of less than thirty minutes. When service is interrupted for 30 minutes or more, credit is allowed for the portion of the service affected in one-half hourly multiples for each one-half hour period or major fraction thereof of interruption. The amount of credit is the proportionate part of the monthly charge, based on 24-hour daily service. The length of interruption shall be measured from the time Telephone Company personnel are notified by the customer of the interruption.

When a Switched Access direct-trunked facility experiences an interruption of service, a credit will be applied for the facility itself. When a customer who has both Direct Trunked and Tandem Access facilities experiences an interruption of service, the customer will receive a credit based on the traffic on the out-of-service facility that is diverted to the tandem and charged at tandem rates.

The MOU credit will be derived by assuming 9000 MOU per trunk per month. Therefore, the daily credit is limited to 300 MOU per trunk.

For example, if a DS1 carrying 24 trunks is out of service for 4 hours, the down-time is equal to 240 minutes per working trunk. The 240 is less than the 300 MOU daily limit; therefore:

240 minutes out-of-service  
X 24 trunks  
5,760 MOU credit multiplied by tandem switching rate,  
fixed per MOU rate and the per mile per MOU  
rate.

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GENERAL REGULATIONS

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)

(b) Special Access or Switched Transport

If a DS1 carrying 24 trunks is out of service for 8 hours, the credit would be determined as follows:

8 hours X 60 minutes = 480 (total minutes out of service for one trunk). The daily MOU credit is limited to 300 per day. Since the out-of-service time exceeds the maximum daily credit, the customer will receive the maximum credit of 300 MOU multiplied by the number of working trunks.

This credit is only applicable if the customer has purchased tandem trunks to the tandem that serves the end office where the out-of-service Direct-Trunked facility terminates.

- (2) For Program Audio Service and Video Service provided at daily rates, no credit shall be allowed for an interruption of less than 30 seconds. The customer shall be credited for an interruption of 30 seconds or more at the rate of 1/288 of the daily charge for the service for each 5 minutes or fraction thereof that an interruption continues. Two or more such interruptions occurring during a period of 5 consecutive minutes shall be considered as one interruption.
- (3) Credit allowances for interruptions to Switched Access Service and Directory Assistance Service apply only to the applicable monthly rates and minimum monthly usage charges.
- (4) The credit allowance(s) for an interruption or for a series of interruptions shall not exceed the monthly rate and minimum monthly usage charge for the service interrupted in any one monthly billing period.
- (5) For certain Special Access services (Wideband Data, WD1-3; Digital Data Access, DA1-4; High Capacity, and Switched Transport) any period during which the error performance is below that specified for the service will be considered as an interruption.

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GENERAL REGULATIONS

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)

- (6) Service interruptions for Specialized Service or Arrangements provided under the provisions of Section 12 following shall be administered in the same manner as those set forth in this section (2.4.4) unless other regulations are specified with the individual case filing.
- (7) For High Capacity DS3 Services which are provided with an optical interface and consequently limit the Telephone Company's ability to test and restore service, no credit shall be allowed for an interruption of less than 4 hours, or any interruption resulting from equipment furnished by the customer.

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GENERAL REGULATIONS

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

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer, or others.
- (3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service, during the time that was negotiated with the customer prior to the release of that service.

Thereafter, a credit allowance as set forth in (B)(1) preceding applies.

- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in this Company's General Services Tariff for Construction Charges. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.
- (6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.
- (7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

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

(E) Temporary Surrender of a Service

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. The credit allowance will be 1/1440 of the monthly rate for each period of 30 minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence

(A) Nonrecurring Charges Do Not Apply

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

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

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 (Cont'd)

(B) Nonrecurring Charges Apply

Nonrecurring Charges apply for establishing service at a different location on the same premises or at a different premises pending reestablishment of service at the original location.

2.4.6 Title or Ownership Rights

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

2.4.7 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved

The Telephone Companies will handle ordering, rating and billing of Access Services under this tariff where more than one Exchange Telephone Company is involved in the provision of Access Service as set forth in (A) or (B) following. The choice of either (A) or (B) shall be made by the Telephone Company and the Telephone Company will notify the customer which option will apply when the customer orders Access Service. When Tandem Switched Transport is provided to a terminating carrier different from a Frontier Telephone ILEC Company, Terminating - Tandem 3<sup>rd</sup> party rates are applicable otherwise Terminating -Tandem end office rates are applicable. When originating Tandem Switched Transport is provided, Originating rates are applicable. The choice of (A) or (B) will be based on the interconnection arrangements between the Exchange Telephone Companies involved.

(C)  
|  
(C)

(A) When an Access Service is ordered by a customer where one end of the Transport element (i.e., Switched Access Service Local Transport, Directory Transport or Special Access Service Channel Mileage) is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, except for Access Services provided with the use of Hubs, the Exchange Telephone Company in whose operating territory the end user is located will accept the order for the Access Service from the customer except for Switched Access Services ordered on a per line or per trunk basis. The Exchange Telephone Company in whose territory the first point of switching is located will accept the order for Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-101XXXX Option, Feature Group A, B and D Switched Access Services ordered in lines or trunks. The company where the Dedicated Network Access Link BSA (DNAL) end office is located shall accept the order. That Exchange Telephone Company that accepts the

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 (Cont'd)

(A) (Cont'd)

order will then determine the charges involved, arrange to provide the Access Service ordered and bill the charges in accordance with its Access Service tariff.

When an Access Service provided with the use of a Hub is ordered by a customer, the Exchange Telephone Company in whose territory the Hub is located will accept the order for the Access Service from the customer. That Exchange Telephone Company will then determine the charges involved, arrange to provide the Access Service ordered and bill the charges in accordance with its Access Service tariff. Option A will not be in effect after June 1, 1985.

- (B) When an Access Service is ordered by a customer where one end of the Transport element (i.e., Switched Transport, Directory Assistance Service Directory Transport Special Access Service Channel Mileage) is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, each involved Exchange Telephone Company will accept the order for the Access Service from the customer. Each Exchange Telephone Company will provide its portion of the Transport element in its operating territory to an interconnection point (IP) with another Exchange Telephone Company. Each Exchange Telephone Company will determine the charges involved for its portion of the Access Service ordered and will bill such charges in accordance with its Access Service tariff. Where the premises of the ordering customer and at least one other customer premises involved in the order is in a different operating territory, the mileage used to determine the Transport element will be the mileage measured from the Telephone Company premises for one end of the Transport element in the Exchange Telephone Company operating territory to the Telephone Company premises for the other end of the Transport element in the other Exchange Telephone Company operating territory. The rate for the Transport element will be the rate in each Exchange Telephone Company's tariff for the mile band for the mileage measured as set forth in the preceding sentence. Each Exchange Telephone Company's charge for the Transport element will be the product of the Exchange Telephone Company's rate for the mile band for the mileage

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 (Cont'd)

(B) (Cont'd)

measured between the two Telephone Company premises for the two ends of the Transport element and the mileage from the Exchange Telephone Company's premises to the interconnection point (IP) and divided by the sum of the mileage from the rating Exchange Telephone Company premises to the interconnection point (IP) and the mileage from the other involved Exchange Telephone Company premises to the interconnection point(s) (IP). All other appropriate charges in each Exchange Telephone Company's tariff are applicable.

The IP will be determined by the Exchange Telephone Companies involved.

- (C) When a Common Channel Signaling Access Service is provided, the Telephone Company in whose territory the STP is located will accept the order for service, determine any applicable charges involved, arrange to provide the service ordered, and bill any applicable charges in accordance with its Access Service tariff.

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 (Cont'd)

(D) Examples

Example 1 - Originating Switched Access

(C)

- Feature Group D Switched access is ordered to End Office.
- Originating End Office and Access Tandem are in the operating territory of a Telephone Company (TC-A).
- Customer Designated Premises is in the operating territory of a Telephone Company (TC-B)
  
- Assumptions:
  - TC-A Direct Trunk Transport BP = 40%
  - TC-B Direct Trunk Transport BP = 60%
  - Direct Trunked Transport mileage = 26 mi.
  - Tandem Switched Transport mileage = 23 mi.
  
- Telephone Company A charges are:
  - End Office charges = 9,000 min. x EO rate
  - Tandem Switched Transport Facility charge = 9,000 min. x 23 mi. x TSF rate
  - Tandem Switched Transport Termination charge = 2 terminations x 9,000 min. x TST rate
  - Tandem Switching Rate = 9,000 min. x TS rate
  - Direct Trunked Facility charge = 26 mi. x DTF rate x 40%
  - Direct Trunked Termination charge = 1 termination x DTT rate
  - Shared Multiplexing charge = 9,000 min. x 23 mi. x SM rate

Example 2 - Terminating Switched Access - Tandem 3<sup>rd</sup> Party

- Feature Group D Switched Access is ordered to End Office.
- Terminating Access Tandem is owned by Frontier Telephone ILEC Companies (TC-A) and end office is owned by a non-Frontier Telephone ILEC Company.
  
- Assumptions:
  - TC-A Direct Trunk Transport BP = 40%
  - TC-B Direct Trunk Transport BP = 60%
  - Direct Trunk Transport mileage = 26 mi.
  - TC-A Tandem Switched Transport BP = 20%
  - TC-B Tandem Switched Transport BP = 80%
  - Tandem Switched Transport mileage = 23 mi.

(C)

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 (Cont'd)

(D) Examples

Example 2 - Terminating Switched Access - Tandem 3<sup>rd</sup> Party

(C)

- Telephone Company A charges are:
  - Tandem Switched Transport Facility-3<sup>rd</sup> Party charge = 9,000 min. x 23 mi. x TSF-3<sup>rd</sup> Party rate x 20%
  - Tandem Switched Transport Termination-3<sup>rd</sup> Party charge = 1 termination x 9,000 min. x TST - 3<sup>rd</sup> Party rate
  - Tandem Switching-3<sup>rd</sup> Party Rate = 9,000 min. x TS-3<sup>rd</sup> Party rate
  - Direct Trunked Facility charge = 26 mi. x DTF rate x 40%
  - Direct Trunked Termination charge = 1 termination x DTT rate
  - Shared Multiplexing 3<sup>rd</sup> Party Charge = 9,000 min. x 23 mi. x SM-3<sup>rd</sup> Party rate

Example 3 - Terminating Switched Access - Tandem End Office

- Feature Group D Switched Access is ordered to End Office.
- Terminating End Office and Access Tandem are both owned by Frontier Telephone ILEC Companies (TC-A).
- Assumptions:
  - TC-A Direct Trunk Transport BP = 40%
  - TC-B Direct Trunk Transport BP = 60%
  - Direct Trunk Transport mileage = 26 mi.
  - Tandem Switched Transport mileage = 23 mi.
- Telephone Company A charges are:
  - End office Charges = 9,000 min. x EO rate
  - Tandem Switched Facility - End Office charge = 9,000 min. x 23 mi. x TSF-End Office rate.
  - Tandem Switched Transport Termination -End Office charge = 2 terminations x 9.000 min. x TST-End Office rate.
  - Tandem Switching - End Office charge = 9,000 min. x TS-End Office rate
  - Direct Trunked Facility Charge = 26 mi x DTF rate x 40%
  - Direct Trunked Termination charge - 1 termination x DTT rate
  - Shared Multiplexing charge = 9,000 min. x 23 mi. x SM rate

(C)

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(N)

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 (Cont'd)

(D) Examples

Example 4 - Terminating Switched Access-Tandem 3<sup>rd</sup> Party

(C)

- Feature Group D Switched Access is ordered to End Office.
- Terminating Access Tandem is owned by Frontier Telephone ILEC Companies (TC-A). Terminating End Office is owned by a non-Frontier Telephone ILEC Company.
- Assumptions:
  - Direct Trunk Transport mileage = 26 mi.
  - TC-A Tandem Switched Transport BP = 20%
  - TC-B Tandem Switched Transport BP = 80%
  - Tandem Switched Transport mileage = 23 mi.
- Telephone Company A charges are:
  - Tandem Switched Transport Facility-3<sup>rd</sup> Party charge = 9,000 min. x 23 mi. x TSF-3<sup>rd</sup> Party rate x 20%
  - Tandem Switched Transport Termination-3<sup>rd</sup> Party charge = 1 termination x 9,000 min. x TST - 3<sup>rd</sup> Party rate
  - Tandem Switching-3<sup>rd</sup> Party Rate = 9,000 min. x TS-3<sup>rd</sup> Party rate
  - Direct Trunked Facility charge = 26 mi. x DTF rate
  - Direct Trunked Termination charge = 2 terminations x DTT rate
  - Shared Multiplexing-3<sup>rd</sup> Party Charge = 9,000 min. x 23 mi. x SM-3<sup>rd</sup> Party rate

Example 5 - Originating Switched Access Frontier Telephone ILEC Company owns only the End Office

- Feature Group D Switched Access is ordered to End Office.
- End Office is owned by Frontier Telephone ILEC Companies (TC-A).
- Access Tandem is owned by a non-Frontier Telephone ILEC Company (TC-B).

(C)

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GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 (Cont'd)

(D) Examples

Example 5 - Originating Switched Access Frontier Telephone ILEC  
Company owns only the End Office (Cont'd)

(C)

- Assumptions:
  - Direct Trunk Transport mileage = 26 mi.
  - TC-A Tandem Switched Transport BP = 80%
  - TC-B Tandem Switched Transport BP = 20%
  - Tandem Switched Transport mileage = 23 mi.
- Telephone Company A charges are:
  - End Office Charges = 9,000 min. x EO rate
  - Tandem Switched Transport Facility charge = 9,000 min. x 23 mi. x TSF rate x 80%.
  - Tandem Switched Transport Termination charge = 1 termination x 9.000 min. x TST rate.

Example 6 - Terminating Switched Access - Tandem 3<sup>rd</sup> Party

- Feature Group D Switched Access is ordered to End Office.
- End Office is owned by Frontier Telephone ILEC Companies (TC-A).
- Access Tandem is owned by a non-Frontier Telephone ILEC Company (TC-B).
- Telephone Company A charges are:
  - End Office Charges = 9,000 min. x EO rate
  - Tandem Switched Transport Facility-3<sup>rd</sup> Party charge = 9,000 min. x 23 mi. x TSF-3<sup>rd</sup> Party rate x 80%.
  - Tandem Switched Transport Termination-3<sup>rd</sup> Party charge = 1 termination x 9.000 min. x TST-3<sup>rd</sup> Party rate.

(C)

GENERAL REGULATIONS

2.4 Payment Arrangements and Credit Allowances (Cont'd)

(M)

2.4.8 Ordering, Rating and Billing of Switched Access Service Provided in Conjunction with a Cellular Exchange Carrier (CEC) or a Radio Common Carrier (RCC)

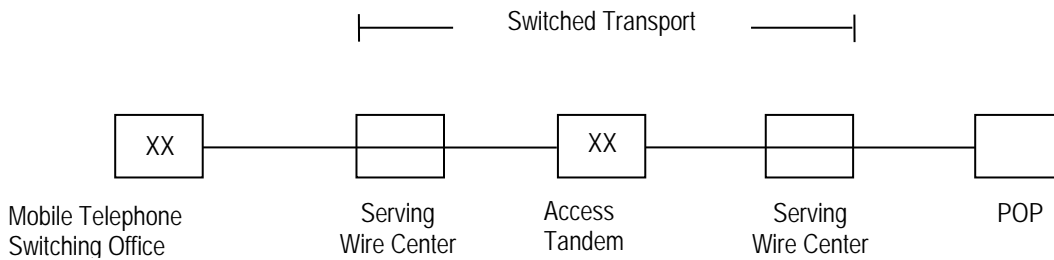
When Switched Access Service is ordered by a customer in conjunction with a CEC or RCC, the Telephone Company will provide its portion of the Switched Access Service based on the regulations, rates and charges contained in its Access Service tariff, subject to the following rules.

- (A) If the Telephone Company provides the Switched Transport and provides end office local switching functions, the customer will be assessed all applicable Switched Access charges. Carrier Common Line charges will not be assessed.

If the Telephone Company provides the Switched Transport and does not provide end office local switching functions, the Telephone Company will assess Switched Transport charges as set forth in Section 6.9. Local Switching and Carrier Common Line charges will not be assessed by the Telephone Company.

- (B) The mileage to be used to determine the Switched Transport charge is calculated as set forth in Section 6.8.11(F).

(C) Example



(M)

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GENERAL REGULATIONS

2.5 Connections

(M)

2.5.1 General

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

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code" denotes a uniform seven-digit code assigned by the Telephone Company to an individual customer. The seven-digit code has the form 101XXXX or 950-10XX.

(M)

Material shown on this page previously appeared on Original Page 26c.

(N)

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Access Minutes

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

Access Tandem

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

Answer/Disconnect Supervision

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

Asynchronous Protocol

The term "Asynchronous Protocol" denotes a type of transmission where information is sent at any speed and at random with no routing information.

Attenuation Distortion

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

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement in an end office which provides for balance and noise testing.

Bit

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

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community these are 8:00 or 9:00 A.M. to 5:00 or 6:00 P.M., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, business day hours for the Telephone Company may vary based on Telephone Company policy, union contract and location.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity" (BHMC) denotes the customer specified maximum amount of Switched Access Service and/or Directory Assistance Service access minutes the customer expects to be handled in an end office switch during any hour of an 8:00 A.M. to 11:00 P.M. period for the Feature Group and/or Directory Assistance Service ordered. This customer-furnished BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group and/or Directory Assistance service ordered.

Call

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

Carrier or Common Carrier

See Interexchange Carrier

CCS

The term "CCS" denotes a hundred call seconds, which is a standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of a group of servers (e.g., trunks).

Cellular Exchange Carrier (CEC)

The term "Cellular Exchange Carrier" defines a Common Carrier authorized by the Federal Communications Commission to provide Cellular Mobile Radio Telecommunications Services.

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Frontier West Virginia Inc.

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Central Office

The term "Central Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks.

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

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Issued: January 8, 2001

Effective: January 8, 2001

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Central Office Prefix

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

Centralized Automatic Reporting on Trunks Testing

The term "Centralized Automatic Reporting on Trunks Testing" denotes a type of testing which includes the capacity for measuring operational and transmission parameters.

Channel(s)

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

Channel Service Unit

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

Channelize

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

C-Message Noise

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

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

C-Notched Noise

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

Common Line

The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the General Services and/or Local Exchange Services 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 Local Exchange Services Tariff. A common line-business is a line provided under the business regulations of the Local Exchange Services Tariff.

Communications System

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

Conventional Signaling

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

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Customer(s)

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

Data Transmission (107 Type) Test Line

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

Decibel

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

Decibel Reference Noise C-Message Weighting

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

Decibel Reference Noise C-Message Referenced to 0

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

Detail Billing

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

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Directory Assistance

The term "Directory Assistance" denotes the provision of telephone numbers by a Telephone Company operator when the operator location is accessed by a customer by dialing 555-1212.

Direct-Trunked Transport Facility

The term denotes a Switched Transport facility between a Telephone Company serving wire center and an end office or between a Telephone Company Serving Wire Center and an access tandem that provides a customer with dedicated transport.

Dual Tone Multifrequency Address Signaling

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

Echo Control

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

Echo Path Loss

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

Echo Return Loss

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

Effective 2-Wire

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

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Effective 4-Wire

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

End Office Switch

The term "End Office Switch" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to trunks. Included are Remote Switching Modules and Remote Switching Systems served by a host office in a different wire center.

End User

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

Entrance Facility

The term denotes a switched transport facility between a Telephone Company serving wire center and a customer premises that provides a customer with dedicated transport.

Entry Switch

See First Point of Switching

Envelop Delay Distortion

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



GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Equal Level Echo Path Loss

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

Expected Measured Loss

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

Exchange

The term "Exchange" denotes a unit generally smaller than a Local Access and Transport Area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. One or more designated exchanges comprise a given Local Access and Transport Area.

Field Identifier

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

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

First Come - First Served

The term "First Come - First Served" denotes a procedure followed when a shortage of facilities or equipment occurs, such that an Access Service ordered cannot be installed. The orders delayed by the shortage of facilities will be prioritized according to the sequence in which they were received. That is, when facilities or equipment become available, the first order received will be the first order processed.

First Point of Switching

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

Frequency Shift

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

Grandfathered

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

Host Office

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Immediately Available Funds

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

Impedance Balance

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

Impulse Noise

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

Individual Case Basis

The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed based on the circumstances in each case.

Inserted Connection Loss

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

Interexchange Carrier (IC) or Interexchange Common Carrier

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

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Intermodulation Distortion

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

Interstate Communications

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

Intrastate Communications

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

Line-Side Connection

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

Local Access and Transport Area

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Local Tandem Switch

The term "Local Tandem Switch" denotes a local Telephone Company switching unit by which local or access telephonic communications are switched to and from an end office switch.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Loop Around Test Line

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

Loss Deviation

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

Message

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

Milliwatt (102 Type) Test Line

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

Mobile Telephone Switching Office (MTSO)

The term "Mobile Telephone Switching Office" (MTSO) denotes the switching facility used by a CEC or RCC in performing originating and terminating switching functions for calls exchanged between their customers, the Telephone Company customers, Interexchange Carriers, and independent Telephone Company customers.

MTS/WATS

The term "MTS/WATS" denotes that service provided under American Telephone and Telegraph Company Tariffs filed with the P.S.C. of West Virginia.

MTS/WATS Type

The term "MTS/WATS Type" denotes services like MTS/WATS provided by other than American Telephone and Telegraph Company.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Network Control Signaling

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

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes an arrangement in step-by-step end offices which provides operational tests which are not as complete as those provided by the synchronous test lines, but can be made more rapidly.

North American Numbering Plan

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

Off-hook

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

On-hook

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

Open Circuit Test Line

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

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Operator Services System

The term "Operator Services System" denotes the equipment capable of processing certain kinds of traffic originating or terminating to an end office; this processing may take place either with or without an operator's assistance. Use of such equipment includes call rating and charge recording functions, operator assistance functions, coin control and collection functions, automatic or manual identification of calling line number, and verification of the busy/idle condition of subscriber lines.

Originating Direction

The term "Originating Direction" denotes the use of access service for the origination of calls from an end user premises to an IC premises.

Out of Band Signaling

Out of Band Signaling denotes an exchange access signaling feature which allows customers to exchange call control and signaling information over a communication path which is separate from the message path.

Overlap Outpulsing

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

Phase Jitter

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

Point of Termination

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

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Premises

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

Registered Equipment

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

Remote Switching Modules and/or Remote Switching Systems

The term "Remote Switching Modules and/or Remote Switching Systems" denotes small, remotely controlled electronic end office switches which obtain their call processing capability from an ESS-type Host Office. The Remote Switching Modules and/or Remote Switching Systems cannot accommodate direct trunks to an IC.

Return Loss

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

Seven-digit Manual Test Line

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

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when the Telephone Company does not have appropriate cable, switching capacity, bridging or multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.



GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Short Circuit Test Line

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

Signal-to-C-Notched Noise Ratio

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

Signal Transfer Point

The term Signal Transfer Point (STP) denotes a specialized switch which provides SS7 network access and performs SS7 message routing and screening.

Signaling Point of Interface

The term Signaling Point of Interface (SPOI) denotes the customer designated location, in the same LATA as Telephone Company STP, where SS7 signaling information is exchanged between the Telephone Company and the customer.

Signaling System 7

The term Signaling System 7 (SS7) denotes common channel out of band signaling using SS7 protocol developed by the Consultive Committee for International Telephone and Telegraph (CCITT) and the American Standards Institute (ANSI).

Singing Return Loss

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

Special Order

The term "Special Order" denotes an order for a Billing and Collection Service or an order for a Directory Assistance Service.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Subtending End Office of an Access Tandem

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

Synchronous Test Line

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

Tandem Switched Transport

The term tandem switched transport consists of circuits dedicated to the use of a single customer from the serving wire center to the tandem and circuits used in common by multiple customers from the tandem to an end office.

Terminating Direction

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

Transmission Measuring (105 Type) Test Line/Responder

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

Transmission Path

The term "Transmission Path" denotes an electrical path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of 300 to 3000 Hz. A transmission path is comprised of physical or derived facilities consisting of any form or configuration of plant typically used in the telecommunications industry.

Trunk

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

Issued by authority of an Order of the Public Service Commission of West Virginia  
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GENERAL REGULATIONS

2.6 Definitions (Cont'd)

Trunk Group

The term "Trunk Group" denotes a set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

Trunk-Side Connection

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

Two-wire to Four-wire Conversion

The term "Two-wire to Four-wire Conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate in a two-wire entity (e.g., a central office switch).

Uniform Service Order Code

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

V and H Coordinates Method

The term "V and H Coordinates Method" denotes a method of computing airline miles between two points by utilizing an established formula which is based on the vertical and horizontal coordinates of the two points.

Wire Center

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

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CARRIER COMMON LINE

3.1 General Description

Carrier Common Line is a separate rate category, integral to Switched Access Service.

Carrier Common Line provides for the use of Telephone Company common lines by customers for access to end users to furnish intrastate telecommunications service.

3.2 Limitations

- (A) A telephone number is not provided with Carrier Common Line.
- (B) Detail billing is not provided for Carrier Common Line.
- (C) Directory listings are not included in the Carrier Common Line rates and charges.
- (D) Intercept arrangements are not included in the Carrier Common Line rates and charges.
- (E) Carrier Common Line does not apply to DNAL BSA.
- (F) Carrier Common Line cannot be purchased as a stand alone service.
- (G) Carrier Common Line does not apply when Switched Access Service is provided in conjunction with a MTSO Type I or II interconnection.

3.3 Undertaking of the Telephone Company

- (A) Where the customer is provided with Switched Access Service under other sections of this tariff, the Telephone Company will provide the use of Telephone Company common lines by a customer for access to end users at rates and charges as set forth in 3.8 following.

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CARRIER COMMON LINE

3.4 Obligations of the Customer

- (A) The Switched Access Service associated with Carrier Common Line shall be ordered by the customer under other sections of this tariff.
  
- (B) Where Trunkside BSA-MTS/WATS Option is provided without Telephone Company recording and the IC records minutes of use which will be used to determine Carrier Common Line Access charges (i.e., Trunkside BSA-MTS/WATS and TSPS calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls), the IC shall furnish such minutes of use detail to the Telephone Company (billing entity) in a timely manner. If the IC does not furnish the data to the billing entity, the IC shall identify all Switched Access Services which could carry such calls in order for the billing entity to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.

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CARRIER COMMON LINE

3.5 Switched Access Service Provided in Conjunction with a Cellular Exchange Carrier (CEC) or a Radio Common Carrier (RCC)

For Switched Access services minutes of use provided in conjunction with a CEC or RCC Type I call, Carrier Common Line rates do not apply.

When credit for Carrier Common Line charges must be made and the Telephone Company cannot determine the credit adjustment for Carrier Common Line charges, the customer shall be responsible for providing documentation for use in determining the credit amount. Documentation, supplied by the customer, shall be supplied each month and shall identify the involved Switched Access services minutes of use, for which a Carrier Common Line credit adjustment is due. The monthly period used to determine the minutes of use shall be the most recent monthly period for which the customer has received a bill for such Switched Access services. The information shall be delivered to the Telephone Company in a timely manner. If the required information is not received by the Telephone Company, as described preceding, the most recent reported information will be used for the next two months. Subsequent credits or allocations for additional months will be made after the required documentation, as described preceding, is delivered to the Telephone Company by the customer.

The Carrier Common Line credit adjustment shall apply for Switched Access service minutes of use provided in conjunction with a CEC or RCC Type I calls, provided Carrier Common Line charges have been assessed on such services.

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CARRIER COMMON LINE

3.6 Payment Arrangements

(A) The Telephone Company will bill the Carrier Common Line. The bill day (i.e., the billing date of the bill) in a month for each customer account will be established by the Telephone Company. Payment is due from the customer 31 days after the bill day date (payment date) or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, and is payable in immediately available funds. If such payment date is a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November, and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment will be due from the customer as follows:

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

(B) Further, if any portion of the Carrier Common Line payment is received by the Telephone Company after the payment date as set forth in (A) preceding, or if any portion of the Carrier Common Line payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the portion of the Carrier Common Line payment not received by the payment date times a late factor. The late factor shall be the lesser of:

- (1) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or
- (2) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

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CARRIER COMMON LINE

3.6 Payment Arrangements (Cont'd)

(C) In the event a billing dispute concerning a month's Carrier Common Line billed to the customer by the Telephone Company is resolved in favor of the Telephone Company, any payments withheld pending settlement of the dispute shall be subject to the late payment penalty set forth in (B) preceding. If the customer disputes the bill on or before the payment date, and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until 10 days after the payment date.

If the billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. In addition, if the customer disputes the billed amount and pays the total amount (i.e. the non-disputed amount and the disputed amount) on or before the payment date and the billing dispute is resolved in the favor of the customer, the customer will receive a credit for a disputed amount penalty from the billing entity if the billing dispute is not resolved within 10 working days following the payment date or the date the customer furnishes to the billing entity documentation to support its claim plus 10 working days, whichever date is the later date. The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor.

3.7 Rate Regulations

- (A) The Carrier Common Line Charges will be billed to each Switched Access Service provided under this Tariff in accordance with the regulations as set forth in (D) following.
- (B) When access minutes are used to determine the Carrier Common Line Charges, they will be accumulated using call detail recorded by Telephone Company equipment except operator and TSPS call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls recorded by the customer. The Telephone Company measuring and recording equipment will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed by line group or end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute. For Lineside BSA and Feature Group A FX/ONAL, the access minutes will be reported on a line-by-line basis.

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ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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CARRIER COMMON LINE

3.7 Rate Regulations (Cont'd)

(C) When the customer reports interstate and intrastate use of in service Switched Access Service, the Carrier Common Line Access Transitional Charges will be billed only to intrastate Switched Access Service lines or trunks. The intrastate Switched Access Service lines or trunks will be used to determine the Carrier Common Line Charges as set forth in (D) following.

(D) Carrier Common Line Access Charge

(1) The charge, as specified in 3.8 following, will be allocated to each carrier monthly, based on the relationship of each carrier's minutes of use to the total minutes of use.

(2) The charges for Carrier Common lines allocated to each carrier as determined in (1) preceding will be adjusted at the end of each month to reflect adjustments for claims made.

3.8 Rates and Charges

	<u>Per Month</u>	
Total Monthly Charge.....	\$0	(R)

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Frontier West Virginia Inc.

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END USER ACCESS SERVICE

4.1 Reserved for Future Use

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

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Issued: January 8, 2001

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END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription

These rates and regulations pertain to IntraLATA Toll Providers (ITP) other than Verizon.

IntraLATA Toll Presubscription is a procedure whereby an end user, or a Pay Telephone Service Provider, may select and designate an (ITP) to access for intraLATA toll calls without dialing an access code. The end user or Pay telephone Service Provider may designate an ITP for intraLATA toll, a different carrier for interLATA toll, or the same carrier for both. This ITP is referred to as the end user's, or Pay Telephone Service Provider's, preferred intraLATA toll provider.

Each carrier will have one or more access codes assigned to it for various types of service. When an end user, or Pay Telephone Service Provider, selects a carrier as its preferred intraLATA toll provider, only one access code of that carrier may be incorporated into the switching system of the Telephone Company permitting access to that carrier by the end user or Pay Telephone Service Provider without dialing an access code. Should the same end user or Pay Telephone Service Provider wish to use other services of the same carrier, it will be necessary for the end user or Pay Telephone Service Provider to dial the necessary access code(s) to reach that carrier's other service(s).

An ITP must use Feature Group D (FGD) Switched Access Service to qualify as an intraLATA toll provider. All intraLATA toll providers must submit a Letter of Intent (LOI) to the Telephone Company at least forty-five days prior to the intraLATA toll presubscription conversion date or, if later, forty-five days prior to the date on which the carrier proposes to begin participating in intraLATA toll presubscription.

Selection of an intraLATA toll provider by an end user or Pay Telephone Service Provider is subject to the terms and conditions following.

4.2.1 Presubscription Charge Application

(A) Presubscription Change Charge Billing Option

At the option of the ITP, the nonrecurring charge for a change in intraLATA toll presubscription, as provided in 4.2.5 (A) following, may be billed to the ITP, instead of the end user.

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END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

(A) Presubscription Change Charge Billing Option (Cont'd)

1. Direct Billing

The direct billing option is available when an ITP initiates an intraLATA PIC change order.

The ITP can designate direct billing on any intraLATA PIC change orders it chooses. The nonrecurring charge for a change in presubscription will then be assessed to the ITP, instead of the End User.

The direct billing option is not available for orders placed via the Telephone Company's Residence or Business Service Centers.

2. Reverse Billing

The Reverse Billing Option is available to ITPs for End User-initiated intraLATA PIC change orders placed at the Telephone Company's Residence or Business Service Centers. The nonrecurring charge for all of the ITP's End User-initiated intraLATA PIC change orders placed at the Telephone Company's Residence or Business Service Centers will be assessed to the ITP, instead of the End User as specified in section 4.2.5.(A) following.

The ITP must notify the Telephone Company in writing of its election to establish and/or cancel the Reverse Billing option. Establishment and/or cancellation will be effective within ten (10) business days from the date the Telephone Company receives written notification and must be in effect for a minimum of six months.

This option is only available to ITPs that also subscribe to the Reverse Billing Option in Verizon's F.C.C. No. 1 Tariff, Section 4.2(D).

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END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

(B) For the first six months, there will be no charge to the end user when changing the presubscription choice. The ITP will be responsible for the presubscription charge for the first six months. End user or Pay Telephone Service Provider choices which constitute exercising the free choices are:

- (1) Designating an ITP as the primary carrier thereby requiring no access code to access that ITP's service. Other carriers are accessed by dialing 101XXXX or other required codes.
- (2) Choosing no carrier as a primary carrier thus requiring 101XXXX code dialing to access all ITPs. This choice can be made by directly contacting the Telephone Company.

Following an existing end user's or Pay Telephone Service Provider's free selections, any change made more than six months after presubscription is implemented is subject to a nonrecurring charge as set forth in 4.2.5 (A) following.

(C) New end users or Pay Telephone Service Providers who subscribe to service after the presubscription implementation date (including an existing customer who orders an additional line) will be asked to select a primary ITP when they place an order for Telephone Company Exchange Service. If a customer cannot decide upon an intraLATA toll carrier at the time, the customer will have thirty days following completion of the service request to make an intraLATA PIC choice without charge. In the interim, the customer will be assigned a "No-PIC" and will have to dial an access code to make intraLATA toll calls. The free selection period available to new end users or Pay Telephone Service Providers is the period within thirty days of installation of the new service.

Initial free selections available to new end users or Pay Telephone Service Providers are:

- Designate an ITP as their primary carrier thereby requiring no access code to access that ITP's service. Other carriers are accessed by dialing 101XXXX or other required codes.
- Choose no carrier as a primary carrier thus requiring 101XXXX code dialing to access all ITPs. This choice can be made by directly contacting the Telephone Company. In addition, new end users or Pay Telephone Service Providers that do not select a preferred carrier will be assigned a "No-Pic."

Following a new end user's or Pay Telephone Service Provider's initial free selection, any subsequent selection made following implementation of intraLATA toll presubscription is subject to a nonrecurring charge as set forth in 4.2.5 (A) following.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

ACCESS SERVICE TARIFF  
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END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.1 Presubscription Charge Application (Cont'd)

- (D) If an ITP elects to discontinue Feature Group D service after implementation of the intraLATA toll presubscription option, the ITP is obligated to contact, in writing, all end users or Pay Telephone Service Providers, who have selected the canceling ITP as their preferred intraLATA toll provider. The ITP must inform the end users or Pay Telephone Service Providers that it is canceling its Feature Group D service, request that the end user select a new ITP, and state that the canceling ITP will pay the PIC change charge as provided in 4.2.5 (A), following. The ITP must provide written notification to Frontier West Virginia Inc., that this activity has taken place.

(D)

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in Case No. 01-0303-T-T\_\_\_\_\_ dated 2-28-01\_\_\_\_\_.

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END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.2 Unauthorized Preferred Carrier Change

An unauthorized preferred carrier change is a change in the preferred intraLATA toll provider that the end user or Pay Telephone Service Provider denies authorizing.

If an end user or Pay Telephone Service Provider denies authorizing a change in intraLATA toll presubscription as submitted by the alleged unauthorized toll provider, the alleged unauthorized toll provider will be assessed the intraLATA toll presubscription change charge as specified in 4.2.4 (A) for:

- The previously disputed change charge to the end user or Pay Telephone Service Provider, and
- The restoral change charge for returning the end user or Pay Telephone Service Provider to the previous preferred intraLATA toll provider.

4.2.3 PIC Change Options

PIC Freeze Option

A PIC Freeze option is available to customers who wish to "freeze" their PIC in an effort to prevent unwanted PIC changes. The customer must notify the Telephone Company that they want to apply a PIC Freeze to their line. The customer may also "lift" the freeze by using a three-way call between the carrier, the customer and the Telephone Company. The freeze will be completed and maintained without charge to the customer.

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

END USER ACCESS SERVICE

4.2 IntraLATA Toll Presubscription (Cont'd)

4.2.4 Coin Sent-Paid IntraLATA Toll Presubscription

Coin sent-paid intraLATA toll calls provides the ability for the Telephone Company to route directly dialed coin sent-paid intraLATA toll from a Network Controlled Coin Line to the 0+ presubscribed provider or, to its subcontracted provider. The presubscribed provider may: 1) receive all intraLATA toll calls originating from a Network Controlled Coin Line; 2) select one subcontracted provider per LATA to receive the coin sent-paid intraLATA traffic, or 3) it can continue to default the coin sent-paid intraLATA toll traffic to the existing carrier handling coin sent-paid intraLATA toll calls from a Network Controlled Coin Line until the 0+ presubscribed provider elects to handle such traffic. 0+ presubscribed providers choosing to either carry or subcontract coin sent-paid intraLATA toll calls must provide a LOI to the Telephone Company.

If the 0+ presubscribed provider does not submit a LOI specifying the routing for intraLATA toll calls all coin sent-paid intraLATA traffic will continue to be routed to the existing coin sent-paid intraLATA carrier until such time as the 0+ presubscribed provider submits a LOI followed by an Access Service Request. If the 0+ presubscribed provider subcontracts the coin sent-paid intraLATA toll calls, the presubscribed provider remains responsible for all 0+ and direct dialed intraLATA toll calls originating from a Network Controlled Coin Line.

If the 0+ presubscribed provider subcontracts the coin sent-paid intraLATA toll traffic, a LOA from the 0+ presubscribed provider or the subcontracted provider, must be delivered to the Telephone Company certifying that the sub-contracted provider agrees to accept and transport the coin sent-paid intraLATA toll calls traffic from a Network Controlled Coin Line prior to routing such traffic to the subcontracted provider. If the 0+ presubscribed provider selects a subcontracted provider to handle 1+ coin sent-paid intraLATA traffic from a Network Controlled Coin Line any arrangements will be solely between the presubscribed provider and its subcontracted provider.

Where a presubscribed provider which handles 0+ intraLATA traffic from a Network Controlled Coin Line selects, on a LATA by LATA basis, a subcontracted provider to handle the coin sent-paid intraLATA traffic, it shall be the sole duty and obligation of the 0+ presubscribed intraLATA toll provider to make any and all arrangements for access billing and settlement with the sub-contracted provider. The Telephone Company shall be indemnified, defended and held harmless by the presubscribed provider and the subcontracted provider for any and all claims arising out of any act or omission of the presubscribed provider and/or subcontracted provider relating to access billing, settlement of arrangements and any other issue concerning the relationship between the presubscribed provider and its subcontracted provider.

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END USER ACCESS SERVICE

4.2.5 Rates and Charges

	<u>RATE</u>
(A) The charge for a change in IntraLATA Toll Presubscription.	\$5.00

(D)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. 01-0303-T-T \_\_\_\_\_ dated 2-28-01 \_\_\_\_\_.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.1 General

This section sets forth the regulations and order related charges for Access Orders for Switched and Special Access Services. These charges are in addition to other applicable charges as set forth in other sections of this tariff.

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

5.1.1 Ordering Conditions

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

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

Customer name and premises address(es).

Billing name and address (when different from customer name and address).

Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation, interactive design, installation and billing.

5.1.2 Provision of Other Services

(A) Testing Service, Additional Labor and Special Facilities Routing shall be ordered with (C) an Access Order or as set forth in (B) following. 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 Access Service with which they are associated.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.1 General (Cont'd)

5.1.2 Provision of Other Services (Cont'd)

- (B) With the agreement of the Telephone Company, the items listed in (A) preceding may subsequently be added to the order at any time, up to and including the service date for the Access Service. When added subsequently, charges for a design change as set forth in 5.2.2(C) following will apply when an engineering review is required.
- (C) Additional Engineering is not an ordering option, but will be applied to an Access Order when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in 13.1 following. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

The regulations, rates and charges for Additional Engineering are as set forth in 13.1 following and are in addition to the regulations, rates and charges specified in this section.

5.1.3 Special Construction

The regulations, rates and charges for special construction are specified in the General Services Tariff for Construction Charges and are in addition to the regulations, rates and charges specified in this section.

5.2 Access Order

An Access Order is used by the Telephone Company to provide a Customer Access Service as follows:

Switched Access Services, as specified in Section 6 following, Special Access Services as specified in Section 7 following, and Other Services as specified in 5.1.2 preceding.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

When placing an order for Access Service, the customers shall provide, at a minimum, the following information:

For Lineside BSA and Feature Group A Switched Access Service, the customer shall specify the number of lines and the first point of switching (i.e., dial tone office), the Local Transport options and Local Switching options desired. In addition, the customer shall specify whether the ordered line(s) is for FX/ONAL service or MTS/WATS-type service. If the customer specifies MTS/WATS-type service, it shall also specify which lines are to be arranged in multi-line hunt group arrangements and which lines are to be provided as single lines.

For Trunkside BSA-950 Option and Feature Group B Switched Access Service, the customer shall specify the number of trunks and the end office when direct routing to the end office is desired or the access tandem switch when routing is desired via an access tandem switch and Local Transport options and Local Switching options are desired. When ordering FGB trunks to an access tandem, the customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements. In addition, the customer shall also specify for terminating-only access whether the trunks are to be arranged in trunk group arrangements or provided as single trunks. The basic traffic type must also be specified using the same categories as described in 6.1.1(E) following, to enable efficient provisioning and billing functions.

For Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, and Feature Group D Switched Access Service, the customer shall specify the number of busy hour minutes of capacity (BHMC) from the customer's premises to the end office by Feature Group and by type of BHMC. This information is used to determine the number of transmission paths as specified in 6.6.5 following. The customer then specifies the Local Transport and Local Switching options.

Customers other than AT&T may, at their option, order Trunkside BSA-101XXXX Option or FGD by specifying the number of trunks desired between their premises and an entry switch. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project future facility requirements.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

When placing an order for Access Service, the customers shall provide, at a minimum, the following information: (Cont'd)

The WATS Access Line optional Feature may be ordered separately by a customer other than the customer which ordered the Trunkside BSA-MTS/WATS Option, Trunkside 101XXXX Option, or FGD Switched Access Service. However, such WATS Access Lines must be ordered for use with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, or FGD Switched Access Service.

For Trunkside BSA-101XXXX Option and Feature Group D Switched Access Service with out-of-band signaling, in addition to information listed preceding, the customer shall specify a reference to existing out-of-band signaling connections or reference to a related signaling connection as specified in 6.2.4 following. The customer must also provide any out-of-band signaling Local Switching options. When ordering trunks with out-of-band signaling, the customer shall provide STP point codes and location identifier codes, circuit identification codes and switch type. In addition, the customer shall also specify, for out-of-band signaling connections, the level of diversity in its network. (T)

For Trunkside BSA-101XXXX Option and Feature Group D with out-of-band signaling, the customer shall work cooperatively with the Telephone Company to determine the number of out-of-band signaling connections required to handle its signaling. (T)

For the WATS Access Connection used for the provision of WATS Access Line Service which provides transmission of intrastate traffic, only in conjunction with Trunkside BSA-101XXXX Option and Feature Group D service, the customer shall specify the premises at which the WATS Access Connection terminates, the type of line, i.e., two-wire or four-wire, the type of calling, i.e., originating or terminating, the network channel interface, the technical Specifications Package, and any other service options. For WATS Access Line Service combined with Lineside BSA or Feature Group A, Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option or Feature Group B, when the end user's serving wire center is not a WATS serving office or, if there is not sufficient capacity in such an office, the Telephone Company will use the nearest WATS serving office where capacity exists. For WATS Access Line Service combined with Trunkside BSA-101XXXX Option or Feature Group D, when the customer's premises is not served by a Trunkside BSA-101XXXX Option or Feature Group D office, the Telephone Company will use the nearest Trunkside BSA-101XXXX Option or Feature Group D office to provide service. Certain Trunkside BSA-101XXXX Option or Feature Group D offices do not have the WATS capability. The Telephone Company will use the nearest equipped Trunkside BSA-101XXXX Option or Feature Group D office to provide the service. The customer will be notified of the change and order modification charges will not apply.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

When placing an order for Access Service, the customers shall provide, at a minimum, the following information: (Cont'd)

For the Operator Transfer Service option ordered in conjunction with Trunkside BSA-101XXXX Option and Feature Group D as specified in 6.2 and 6.3 following, the customer must specify the number of trunks desired between their premises and the Telephone Company designated Operator Services access point. Operator transfer trunks are used to carry only originating zero minus traffic, i.e., the customer dials only the zero digit with no additional digits. Trunks ordered with Operator Transfer Service may be arranged for originating only traffic.

When ordering Operator Transfer Service trunks as specified preceding, the customer must also specify the type of signaling desired. Operator Transfer Service trunks may be equipped with either Exchange Access Signaling, where available, or Operator Services Signaling as specified in technical publication TR-NPL-00258, issued October 1, 1985, and technical publication TR-TSY-000506, issued July 1987. Exchange Access Signalling is only available where Telephone Company facilities are capable of providing such signalling.

For Directory Assistance Service, the customer shall specify the number of trunks from the customer's premises to the Directory Assistance location. If the Directory Assistance Service is to be associated with a Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, Feature Group B or D Switched Access Service, the customer shall also specify which Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, Feature Group B or D Switched Access Service trunk group is to be associated with the Directory Assistance Service. This information is used to determine the number of transmission paths as specified in 9.2(E)(3) following. The customer then specifies the Directory Transport options.

For all Special Access Services, the customer must specify the customer premises or hubs involved, the type of service, e.g. Video, Voice Grade, High Capacity, etc., the channel interface technical specification package and options desired. For multi-point services, the channel interface at each premises may, at the request of the customer, be different but all such interfaces shall be compatible.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

When Switched Access Service is ordered in trunks, the trunks may be determined by the customer in the following manner. For each day the customer shall determine the highest number of trunks in use for a single hour. The customer shall, for the same hour period, i.e., busy hour, pick the 20 consecutive business days in a calendar year which add up to the largest number of trunks in use. The customer shall then determine the average busy hour trunks by dividing the largest number of trunks in use figure, for the same hour period, for the consecutive 20 business day period by 20. This computation shall be performed for each end office and/or access tandem the customer wishes to serve.

Where the Special Access Service is exempt from the Special Access Surcharge, as specified in Section 7.4.2 following, the customer shall furnish with the order the certification as specified in Section 7.4.2 following.

For Dedicated Network Access Links (DNALs), the customer must specify the customer premises involved, the channel interface, technical specifications package and options desired, and the Percent Interstate Usage (PIU) (DNAL PIU must be the same as the Lineside BSA PIU which utilizes the DNAL), in accordance with section 2.3.10, preceding.

5.2.1 Access Order Service Date Intervals

Access Service is provided with one of the following Service Date Intervals.

Standard Interval

Negotiated Interval

To the extent the Access Service can be made available with reasonable effort, the Telephone Company will provide the Access Service in accordance with the customer's requested interval, subject to the following conditions.

(A) Standard Interval

The Telephone Company shall publish and make available to all customers a schedule of Standard Intervals applicable for Switched and Special Access Services. The schedule specifies the services and the quantities of services that can be provided in the Standard Intervals. Access Order Standard Intervals are specified in 5.3.

Access Services provided in a Standard Interval will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.1 Access Order Service Date Intervals (Cont'd)

(A) Standard Interval (Cont'd)

subject to applicable Additional Labor Charges as specified in 13.2.6(A) following.

(B) Negotiated Interval

The Telephone Company will negotiate a service date interval with the customer when:

- (1) There is no Standard Interval for the service or
- (2) The customer requests a service date before or beyond the applicable Standard Interval service date.
- (3) The quantity of Access Services ordered exceeds the quantities specified in the Standard Intervals

The Telephone Company will offer a service date based on the type and quantity of access services the customer has requested. The Negotiated Interval may not exceed by more than six months the Standard Interval Service date or, when there is no Standard Interval, the Telephone Company-offered service date.

All part-time Television and Program Audio services are provided with a Negotiated Interval. Each service is subject to a service inquiry. A service inquiry is a request to the Telephone Company to determine if facilities exist to provide the service ordered and to determine the service date on which service can be provided to the customer.

All services for which rates are applied on an individual case basis are provided with a Negotiated Interval.

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 normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Order

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

modification, the Telephone Company will schedule a new service date. All charges for Access Order modifications will apply on a per-occurrence basis.

Any increase in the number of Special Access Service channels or Switched Access Transport Facilities lines, trunks or out of band signaling connections will be treated as a new Access Order, for the increased amount only.

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

(A) Service Date Change Charge

Access Order service dates for the installation of new services or rearrangements of existing services may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. If the customer requested service date is more than 30 calendar days after the original service date, the order will be canceled by the Telephone Company and reissued with the appropriate cancellation charges applied.

If the customer requested service date is more than 30 calendar days after the original service date, or if the customer or the customer's end user is unable to accept Access Service within 30 calendar days of the original service date, the order will be cancelled by the Telephone Company on the 31st day with the appropriate Cancellation Charge as set forth in 5.2.3 following applied. If the customer still requires the service, the customer must place a new Access Order with the Telephone Company.

A new service date may be established that is prior to the original standard or negotiated interval service date if the Telephone Company determines it can accommodate the customer's request without delaying service dates for orders of other customers. If the service date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in (D) following apply. Such charges will apply in addition to the Service Date Change Charge.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

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

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is:

	<u>Charge</u>	<u>USOC</u>
Service Date Change Charge, per order .....	\$44.45	OMC

(B) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service channels, Switched Access Transport Facilities, lines, trunks or out of band signaling connections will be treated as a partial cancellation and the charges as set forth in 5.2.3(C) following will apply.

(C) Design Change Charge

The customer may request a design change to the service ordered. A design change is any change to an Access Order which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what change in the design, if any, are necessary to meet the service changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer premises, end user premises, end office switch, Basic Service Arrangement and Feature Group type or Special Access Service Channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if it can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply. The Design Change Charge will apply on a per-order, per-occurrence basis for each order requiring a design change. The applicable charge is:

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.2 Access Order Modifications (Cont'd)

(C) Design Change Charge (Cont'd)

	<u>Charge</u>	<u>USOC</u>
Design Change Charge, per order .....	\$44.45	H28

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

(D) Expedited Order Charge

When placing an Access Order, a customer may request a service date that is prior to the standard interval service date. A customer may also request an earlier service date on a pending standard or negotiated interval Access Order. If the Telephone Company determines that service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Such additional charges will be determined and billed to the customer as follows:

To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in 13.2.6(A) following.

To develop, determine and bill the customer the extraordinary costs which may be involved, Construction Charges as specified in the General Services Tariff will apply.

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

5.2.3 Cancellation of an Access Order

(A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(A) (Cont'd)

A customer may negotiate an extension of a service date of an Access Order for installation of new services or rearrangements of existing services and a Service Date Change Charge as set forth in 5.2.2 will apply. However, the new service date cannot exceed the originally established service date by more than 30 calendar days. On the 31st day beyond the original service date, the Access Order will be cancelled and an appropriate Cancellation Charge will be applied.

Costs incurred in conjunction with the provision of Switched or Special Access Service start on the Application Date as defined in (B)(2) following.

When the customer cancels an Access Order prior to the Scheduled Issue Date, as defined in (B)(2) following, no charges shall apply.

(B) Applicable charges are based on the amount of provisioning completed by the Telephone Company at the time the order is cancelled. The charges are determined based on the following:

(1) Certain Telephone Company critical dates are associated with an Access Order provisioning interval, whether Standard or Negotiated. These dates are used by the Telephone Company to monitor the progress of the provisioning process. At any point in the Access Order provisioning interval the Telephone Company is able to determine which critical date was last completed and can thus determine what percentage of the Telephone Company's nonrecurring charge has been incurred.

(2) The critical dates tracked by the Telephone Company are as follows:

Application Date (APP): The date the customer provides a firm commitment and sufficient information as detailed in 5.1 preceding to the Telephone Company. This is also the order date.

Scheduled Issue Date (SID): The date that the order is to be entered in the Telephone Company's order distribution system.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(2) (Cont'd)

Design Layout Report Date (DLRD): The date the Design Layout Report (DLR) is to be forwarded to the customer.

Records Issue Date (RID): The date that all design and assignment information is to be sent to the central office and installation forces.

Wired and Office Tested Date (WOT): The date by which all intraoffice wiring is to be completed, all plug-ins optioned, aligned, and frame continuity established, and the interoffice facilities, if applicable, tested. In addition, switching equipment, including translation loading, is to be installed and tested.

Plant Test Date (PTD): The date on which overall testing of the service is to be started.

Service Date (DD): The date on which service is to be made available to the customer. This is sometimes referred to as the Due Date.

- (3) The amount of the total provisioning completed by the Telephone Company at a particular critical date varies by the type of service as shown following.

When a customer cancels an Access Order, or part of an Access Order, before the service date, the Telephone Company will apply cancellation charges to the order, unless the order is cancelled because the Telephone Company missed the service date, by multiplying all the nonrecurring charges associated with the order, or that part of the order being cancelled, by the percentage shown following for the critical date last completed on the order:

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

	<u>APP</u>	<u>SID</u>	<u>DLRD</u>	<u>RID</u>	<u>WOT</u>	<u>PTD</u>
FGA and Lineside BSA	0%	9%	19%	37%	100%	100%
FGB and Trunkside BSA-950 Option	0%	8%	17%	32%	100%	100%
FGD and Trunkside BSA-101XXXX Option	0%	7%	18%	32%	100%	100%
MT <sup>1</sup>	0%	22%	39%	39%	68%	100%
TG	0%	12%	23%	23%	66%	100%
VG	0%	8%	17%	17%	74%	100%
WAC	0%	7%	18%	32%	100%	100%
AP	0%	10%	24%	24%	70%	100%
TV	0%	7%	26%	26%	69%	100%
WA	0%	7%	26%	26%	69%	100%
WD	0%	7%	26%	26%	69%	100%
DA	0%	10%	21%	21%	70%	100%
HC	0%	6%	21%	21%	74%	100%

(C) When a customer cancels an order for the discontinuance of service,  
no charges apply for the cancellation.

<sup>1</sup> and Metallic DNAL

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.4 Selection of Facilities For Access Orders

- (A) When there are analog or digital high capacity facilities to a Hub on order or in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Switched or Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer's request.
- (B) For all other Access Orders, the option to request a specific transmission path or channel is not provided except as provided for under Special Facilities Routing as set forth in Section 11 following.

5.2.5 Minimum Period

- (A) Except as set forth in (B) and 9.4(A) following, the minimum period for which Access Service is provided and for which charges are applicable, is one month.
- (B) The minimum period for part-time Television and Program Audio Special Access Services is one day even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.).
- (C) Service Rearrangements as set forth in 6.8.1 and 7.4.1 following for Switched and Special Access Services respectively, may be made without a change in minimum period requirements.
- (D) Changes other than those identified in 6.8.1 or 7.4.1 following will be treated as a discontinuance of the existing service and an installation of a new service. All associated nonrecurring charges will apply for the new service. A new minimum period will be established for the new service. The customer will also remain responsible for all outstanding minimum period obligations associated with the disconnected service.

The changes listed below are those which will be treated as a discontinuance and installation of service except as specified in 2.1.2(A) preceding and for which a new minimum period is to be established.

- (1) A change of customer of record (i.e., Access Service is provided to and billed to a different customer)
- (2) A move to a different building as set forth in 6.8.5 or 7.4.4 following

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.5 Minimum Period (Cont'd)

(D) (Cont'd)

- (3) A change in type of service (i.e., Switched Access to Special Access, one type of Special Access to another, or one type of Switched Access Feature Group to another except as set forth in 6.8.4 following)
- (4) A change in the type of Special Access Service Channel Termination
- (5) A change in Switched Access Service or Directory Assistance Service Interface Group
- (6) Change in Switched Access Service traffic type
- (7) Change from two-point to multi-point Special Access Service or from multi-point to two-point Special Access Service.

5.2.6 Minimum Period Charge

When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. A disconnect constitutes facilities being returned to available inventory.

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

- (A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity as set forth in 6.8.2 following.
- (B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in 7.5 following.

The Minimum Period Charge for part-time Television and Program Audio Services is the applicable daily rate for the service as set forth in 7.5 following.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.2 Access Order (Cont'd)

5.2.7 Shared Use Facilities

Shared Use (i.e., Switched and Special Access Services provided over the same analog or digital high capacity facilities) is allowed. Shared use facilities to a Hub will be ordered and provided as Special Access Service. While shared use is allowed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

5.3 Access Order Standard Intervals

The intervals listed on the following table depict the number of days required to provide Switched Access Services as set forth in Section 6 following and Special Access Services as set forth in Section 7 following.

The critical dates associated with provisioning Switched and Special Access Services are as follows:

Application Date (APP): The date the customer provides a firm commitment and sufficient information as detailed in 5.1 preceding to the Telephone Company. This is also the order date.

Confirming Design Layout Report Date (CDLRD): The date the Design Layout Report (DLR) is to be confirmed by the customer.

Design Layout Report Date (DLRD): The date the Design Layout Report (DLR) is to be forwarded to the customer.

Service Date (DD): The date on which service is to be made available to the customer. This is sometimes referred to as the Due Date.

Total business day intervals of greater duration than listed in this table may result in greater duration of APP-DLRD and DCLR-D- DD intervals. These intervals will be indicated on the Firm Order Confirmation.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.3 Access Order Standard Intervals (Cont'd)

5.3.1 Special Access Services

	<u>Business Days from APP to DLRD</u>	<u>Business Days from CDLRD to DD</u>	<u>Total Business Days</u>
Two Points			
Intervals in parentheses ( ) are for conditioned circuits.			
1 - 4 Lines .....	5 (6)	8 (12)	13 (18)
5 - 8 Lines .....	6 (7)	12 (16)	18 (23)
9 - 12 Lines .....	7 (8)	16 (20)	23 (28)
13 - + Lines .....	*		

Multi-point

Intervals in parentheses  
( ) are for conditioned  
circuits.

1 - 6 Legs	6 (7)	12 (16)	18 (23)
7 - 10 Legs	8 (9)	15 (19)	23 (28)
11 - 14 Legs	10 (11)	18 (22)	28 (33)
15 - + Legs	*		

WATS Access Line Service

Intervals\* in parentheses  
( ) are for nondesigned 2-wire  
WATS access connections

1 - 4 Lines	5 (2)	8 (3)	13 (5)
5 - 8 Lines	6 (4)	12 (6)	18 (10)
9 -12 Lines	7 (5)	16 (8)	23 (13)
13 - + Lines	†		

\* Two-wire WATS access connections served from local serving office -  
Nondesigned - Design Layout Record Waived.

† Provided under Negotiated Interval as specified in 5.2.1(B) preceding.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.3 Access Order Standard Intervals (Cont'd)

5.3.1 Special Access Services (Cont'd)

	<u>Business Days from APP to DLRD</u>	<u>Business Days from CDLRD to DD</u>	<u>Total Business Days</u>
Digital Data Two-point			
1 - 4 Lines .....	13	28	41
5 - 8 Lines .....	16	29	45
9 - 12 Lines .....	17	31	48
13 - + Lines .....	†		
Digital Data Multi-point			
1 - 4 Legs .....	15	30	45
5 - 8 Legs .....	17	31	48
9 - 12 Legs .....	18	32	50
13 - + Legs .....	†		
Digital Data 56 KBPS	†		
High Capacity 1.544 Mbps Service Network Channel Code HC			
1 - 4 Lines .....	14	36	50
5 - + Lines .....	†		
High Capacity, all other services	†		
Wideband.....	†		
Video.....	†		
Program.....	†		

† Provided under Negotiated Interval as specified in 5.2.1(B) preceding.

ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.3 Access Order Standard Intervals (Cont'd)

5.3.2 Switched Access Services

Feature Group A*	Business Days from <u>APP to DLRD</u>	Business Days from <u>CDLRD to DD</u>	Total Business <u>Days</u>
1 - 4 Lines .....	5	8	13
5 - 8 Lines .....	6	12	18
9 - 12 Lines .....	7	16	23
13 - + Lines .....	†		
 Feature Groups† B and D			
1 - 12 Trunks .....	14	16	
13 - 24 Trunks .....	16	24	40
25 - + Trunks .....	†		
All Quantities .....	Initial Equal Access Conversion		135 Calendar Days
 Feature Group D and Directory Assistance * #			
0 - 335 Minutes .....	14	16	30
336 - 858 Minutes .....	16	24	40
859 - + Minutes .....	*		
All Quantities .....	Initial Equal Access Conversion		135 Calendar Days

\* Intervals for FG - A, B, D ordered with a high capacity interface and provided with new high capacity interface facilities must be negotiated.

† Provided under Negotiated Interval as specified in 5.2.1(B) preceding.

# Quantity of minutes are based on standard traffic engineering methods.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.3 Access Order Standard Intervals (Cont'd)

5.3.2 Switched Access Services (Cont'd)

	<u>Business Days from APP to DLRD</u>	<u>Business Days from CDLRD to DD</u>	<u>Total Business Days</u>
WATS 2-wire, Served from Local Serving Offices, Nondesignated-Design Layout Record Waived			
1 - 4 Lines .....	2	3	5
5 - 8 Lines .....	4	6	10
9 - 12 Lines .....	5	8	13
13 - + Lines .....	*		
WATS - All Other Services			
1 - 4 Lines .....	5	8	13
5 - 8 Lines .....	6	12	18
9 - 12 Lines .....	7	16	23
13 - + Lines .....	*		
Disconnects-Feature Groups B, D and Directory Assistance			
All .....			10
Disconnects-All Other Applications			
All .....			5
Joint Provisioning Between the Telephone Company And Any Other Local Exchange Carrier			
All .....			*

\* Provided under Negotiated Interval as set forth in 5.2.1(B) preceding.

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ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

5.3 Access Order Standard Intervals (Cont'd)

5.3.2 Switched Access Services (Cont'd)

	<u>Business Days from APP to DLRD</u>	<u>Business Days from CDLRD to DD</u>	<u>Total Business Days</u>
Inside Moves-Without Changes-DLR Waived			
All .....			9
 Changes			
All ..... Same Intervals as New Service			

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SWITCHED ACCESS SERVICE

6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point electrical communications path between a customer's premises and an end user's premises. It provides for the use of common terminating, switching and transport facilities, and both common subscriber plant and unshared subscriber plant (i.e. entrance facilities) of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer's premises, and to terminate calls from a customer's premises to an end user's premises in the LATA where it is provided.

Rates and charges for Switched Access Service depend generally on its use by the customer, i.e., for MTS or WATS services, MTS/WATS equivalent services, or other services, e.g., Foreign Exchange Service. Rates and charges for Switched Access Service are specified in 6.9 following. The application of rates for Switched Access Service is described in 6.8 following. Rates and charges for services other than Switched Access Service, e.g., a customer's long distance message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.2.1(A)(7), 6.2.1(B)(3), 6.2.2 (A)(5), 6.2.2(B)(4), 6.2.3(A)(4), 6.8.8 and 6.8.10 following. Finally, a credit is applied against line side switched Access Service charges as described in 6.8.9 following.

Pursuant to FCC Report and Order and Order On Further Reconsideration and Supplemental Notice Of Proposed Rulemaking, CC Docket No. 89-79, FCC 91-186, released July 11, 1991, the Telephone Company offers a Lineside Switched Access BSA (Lineside BSA), a Trunkside Switched Access BSA (Trunkside BSA), a Dedicated Network Access Line (DNAL) BSA and a number of BSEs.

Switched Access Service is provided in three unbundled service arrangements of alternative features and optional BSEs called (1) Lineside Switched Access BSA (Lineside BSA), (2) Trunkside Switched Access BSA (Trunkside BSA) and (3) Dedicated Network Access Line BSA (DNAL BSA) and in four optional service arrangements of standard and optional features called (1) Feature Group A (FGA), (2) Feature Group B (FGB), and (3) Feature Group D (FGD).

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

The arrangements are differentiated by their technical characteristics, e.g., line side vs. trunkside connection at the Telephone Company entry switch, and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. A description of Lineside BSA, Trunkside BSA, and DNAL BSA is in 6.3 following. A description of each Feature Group is in 6.2 following.

6.1.1 Switched Access Service Arrangements

Switched Access Service is provided in three service categories of standard and optional features, Feature Groups A, B and D. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company entry switch, and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. Following is a brief description of the Feature Group arrangement.

(A) Feature Group A (FGA)

FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven-digit local telephone number for the customer's use in originating and terminating communications. A more detailed description of FGA Access is provided in 6.2.1 following.

WATS Access Line Service, for use in the originating and terminating direction, is available with Feature Group A.

(B) Feature Group B (FGB)

FGB Access, which is available to Interexchange Carriers only, provides trunk side access to Telephone Company end office switches with an associated uniform 950-10XX access code for the customer's use in originating and terminating communications. A more detailed description of FGB Access is provided in 6.2.2 following.

WATS Access Line Service, for use in the originating and terminating direction, is available with Feature Group B.



SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements (Cont'd)

(C) Feature Group D (FGD)

FGD Access, which is available to Interexchange Carriers only, provides trunk side access to Telephone Company end office switches with an associated uniform 101XXXX access code for the customer's use in originating and terminating communications. WATS Access Lines are ordered as specified in 5.2 preceding. A more detailed description of FGD Access is provided in 6.2.3 following.

Operator Transfer Service, as described in 6.2.3(A)(9) following, is an optional service available for use with Feature Group D. Operator Transfer Service is an originating only service and is ordered as specified in 5.2 preceding. In addition to Feature Group D charges, Operator Transfer Service is subject to the rates and charges specified in 6.1.2(B)(3) and 6.9.4 following.

(D) WATS Access Line Service

WATS Access Line Service is a type of Special Access Service that is provided only for use with Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Group A, B and D Switched Access Services. WATS Access Line Service connects an end user premises with a WATS serving office. This service is described in Section 7 following.

(E) Manner of Provision

Switched Access is furnished in either quantities of lines or trunks.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements (Cont'd)

(E) Manner of Provision (Cont'd)

Trunks are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic is necessary for the Telephone Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer.

There are three major traffic types. These are: Originating, Terminating and Directory Assistance. Originating traffic type represents access capacity within a LATA for carrying traffic from the end user to the customer; Terminating traffic type represents access capacity within a LATA for carrying traffic from the customer to the end user; and Directory Assistance traffic type represents access capacity within a LATA for carrying Directory Assistance traffic from the customer to a Directory Assistance location. When ordering capacity for Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option or FGD Access, the customer must, at a minimum, specify such access capacity in terms of Originating traffic type and/or Terminating traffic type. Directory Assistance traffic type is used for ordering Directory Assistance Access Service as specified in Section 9 following.

Because some customers will wish to further segregate their originating traffic into separate trunk groups, Originating traffic type is further categorized into Domestic, Toll Free Data Base Access Service, 900, Operator, IDDD and Operator Transfer Service. Domestic traffic type represents access capacity for carrying only domestic traffic other than Toll Free Data Base Access Service, 900 and Operator traffic; IDDD traffic type represents access capacity for carrying only international traffic; and Toll Free Data Base Access Service, 900 and Operator traffic type represents access capacity for carrying, respectively, only Toll Free Data Base Access Service, 900 or Operator traffic. Operator Transfer Service traffic represents access capacity for carrying only Operator Transfer Service. When ordering such types of access capacity, the customer must specify Domestic, Toll Free Data Base Access Service, 900, Operator, IDDD or Operator Transfer Service

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements (Cont'd)

(E) Manner of Provision (Cont'd)

traffic type. Operator Transfer Service traffic must be carried over a separate trunk group and cannot be combined with other traffic types.

An out-of-band signaling connection as described in 6.2.4 following is required in conjunction with Trunkside BSA-101XXXX Option and Feature Group D equipped with out-of-band signaling. An out-of-band signaling connection provides the interconnection between the Telephone Company's STP pair and the customer's SPOI(s).

When ordering out-of-band signaling with Trunkside BSA-101XXXX Option and Feature Group D equipped with out-of-band signaling, the customer shall specify that all traffic is to be equipped with out-of-band signaling.

6.1.2 Rate Categories

The following rate categories apply to Switched Access Service:

Switched Transport, described in 6.1.2(A) following.

End Office, described in 6.1.2(B) following.

Common Line, described in Section 3 preceding.

Toll Free Data Base Access Service, described in 6.4.3(A) following.

(A) Switched Transport

The Switched Transport rate category provides the transmission facilities between the customer's premises and the end office switch(es) where the customer's traffic is switched to originate or terminate the customer's communications. For purposes of determining Switched Transport mileage, distance will be measured from the wire center that normally serves the customer's premises to the end office switch(es). Exceptions to the mileage measurement rules are set forth in 6.8.11 following and in this section.

Switched Transport is a two-way voice frequency transmission path composed of switched entrance facilities, direct trunked transport facilities, and/or tandem switched transport facilities which permit the transport of calls in the originating direction (from the end user end office switch to the customer's premises) and in the terminating direction (from the customer's premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rates Categories (Cont'd)

(A) Switched Transport (Cont'd)

The Telephone Company will work cooperatively with the customer in determining (1) the Entrance Facility; (2) whether the service is to be directly routed to an end office switch or through an access tandem switch via Tandem Switched facilities; (3) the directionality of the service. When Tandem Switched Transport to a terminating carrier's end office, and not an end office owned by a Frontier Telephone ILEC Company, the Terminating Tandem 3<sup>rd</sup> Party and Dedicated Trunk Port rates are applicable. (C)

Switched Transport is provided at the rates and charges set forth in 6.9.1 following. The application of these rates with respect to individual Switched Access Arrangements is as set forth in 6.8.1 following.

Switched Transport is comprised of an Entrance Facility rate category, as described in (1) following, a Direct Trunked Transport rate category, as described in (2) following, a Tandem Switched Transport rate category, as described in (3) following, and an Interconnection charge as described in (4) following.

(1) Entrance Facility Rate Category

An Entrance Facility provides the communication path between a customer's premises and the Telephone Company SWC of that premises for the sole use of the customer. The Entrance Facility category is comprised of a Voice Grade rate, a DS1 rate or a DS3 rate. An Entrance Facility is required whether the customer's premises and the SWC are located in the same or different buildings. The types of facilities available for Entrance Facilities are described in 6.2.5 following.

(2) Direct Trunked Transport Rate Category

Direct Trunked Transport provides the transmission path from the SWC of the customer's premises to an end office or as an option from the SWC to a tandem or, in the case of voice grade service used for FGA/Lineside BSA, from the SWC to the Dial Tone Office (DTO). This transmission path is dedicated to the use of a single customer.

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rates Categories (Cont'd)

(A) Switched Transport (Cont'd)

(2) Direct Trunked Transport Rate Category (Cont'd)

The Direct Trunked Transport rate category is comprised of a monthly fixed rate and a monthly per mile rate based on the facility provided (i.e., Voice Grade, DS1, or DS3). The fixed rate provides the circuit equipment at the ends of the transmission links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment, between the end points of the circuit. The Direct Trunked Transport rate is the sum of the fixed rate and the per mile rate. For purposes of determining the per mile rate, mileage shall be measured as airline mileage between the SWC of the customer's premises and the end office or directly to the access tandem using the V&H coordinates method. The types of facilities available for Direct Trunked Transport are described in 6.2.5 following.

(3) Tandem Switched Transport Rate Category

Tandem Switched Transport provides the transmission facilities from the SWC of the customer's premises to an end office utilizing tandem switching functions. Tandem Switched Transport consists of circuits dedicated to the use of a single customer from the SWC of the customer's premises to the access tandem and circuits used in common by multiple customers from the access tandem to an end office. For Tandem Switched Transport the Telephone Company shall determine the type of facilities from the SWC of the customer's premises to the end office(s) via the access tandem, unless the customer has ordered Direct Trunked Transport to the tandem. The Telephone Company will base its determination on a per trunk basis provided by the customer when ordering service.

Pursuant to FCC 20-143, released October 9, 2020, tandem switching and transport for originating Toll Free traffic will be charged via a single usage sensitive Joint Tandem Switched Transport Access Service rate applied per access minute.

(N)  
|  
(N)

SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rates Categories (Cont'd)

(A) Switched Transport (Cont'd)

(3) Tandem Switched Transport Rate Category (Cont'd)

The Tandem Switched Transport rate category is comprised of a Tandem Transport fixed MOU rate, Tandem Transport Per Mile/Per MOU rate, and a Tandem Switching MOU rate. The fixed rate provides the circuit equipment at the end of the interoffice transmission links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment between the end points of the interoffice circuit. For purposes of determining the per mile rate, mileage shall be measured as airline mileage between the SWC of the customer's premises and the end office using the V&H coordinates method. The Tandem Switching rate provides for tandem switching facilities. The Tandem Switched Transport rate is the sum of the fixed rate, the per mile rate, and the Tandem Switching MOU rate.

In addition, the customer has an option to purchase direct trunks to the access tandem as specified in (2) preceding. If the customer chooses this option, the per mile/per MOU rate shall be measured as airline mileage between the tandem office and the end office (common traffic) using the V&H coordinates method for all of the customer's usage at that specific tandem. The fixed per MOU rate and the tandem switching rates will also apply.

The Tandem Switched Transport fixed rate and the Tandem Transmission per mile/per MOU rate also apply to FGA with a Voice Grade Facility. The miles are measured from the DTO to the End Office.

(4) Interconnection Charge

The Interconnection Charge rate element is assessed to all customers who connect with the Telephone Company Switched Access Network. This charge is applied to all intrastate Local Switching Access Minutes Of Use (MOUs).

When the customer has ordered Trunkside BSA-101XXXX Option and Feature Group D with out of band signaling, the Telephone Company will provide out of band signaling in accordance with technical specifications and as specified in 6.2.3 following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rates Categories (Cont'd)

(A) Switched Transport (Cont'd)

Notwithstanding the first paragraph of this section 6.1.2(A), the Switched Transport for the WATS access line optional feature will apply as follows. When the WATS serving office is a different end office than the end user's end office, Switched Transport will be measured between the end user's end office and the WATS serving office in addition to being measured between the WATS serving office and the serving wire center for the customer's premises. Switched Transport rates will apply separately to each of these Switched Transport measurements.

(5) Interface Groups

Ten Interface Groups are provided for terminating the Switched Transport at the customer's premises.

Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, the individual transmission path between the customer's premises and the first point of switching may at the option of the customer be provided with optional features as set forth in (6)(a) and (b) following.

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

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

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

Only certain premises interfaces are available at the customer premises. The premises interfaces associated with the Interface Groups may vary among Switched Access Arrangements. The various premises interfaces which are available with the Interface Groups, and the Switched Access Arrangements with which they may be used, are set forth in (5)(k) following.

(a) Interface Group 1 (USOC TPP1X)

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

Interface Group 1 is not provided in association with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGB or FGD when the first point of switching provides only four-wire terminations.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

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

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 of configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with Lineside BSA or FGA, such signaling will be loop start or ground start signaling. When the interface is associated with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(b) Interface Group 2 (USOC TPP2X)

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

The transmission path between the point of termination at the customer's 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.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

(b) Interface Group 2 (USOC TPP2X) (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with Lineside BSA or FGA, such signaling will be loop start or ground start signaling. When the interface is associated with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(c) 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 108 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 of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(d) 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

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

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

alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(e) 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 of frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with individual transmission path SF supervisory signaling.

(f) 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

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

(f) Interface Group 6 (USOC TPP6X)

Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(g) 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 of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

(h) 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 of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(i) 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 of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

(j) 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 of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

The interface is provided with individual transmission path bit stream supervisory signaling.

(k) Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available 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 7.3 following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Switched Access Service†			
			1	2	3	4
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS2	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			

† 1 Lineside BSA or FGA.  
2 Trunkside BSA-950 Option or FGB.  
3 Trunkside BSA-MTS/WATS Option.  
4 Trunkside BSA-101XXXX Option or FGD.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

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

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Switched Access Service†			
			1	2	3	4
1	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-0		X	X	X
	RV	2RV3-T		X	X	X
	Out of band signaling	2ND2				X
2	LO, GO	4SF2	X			
	LO, GO	4SF3	X			
	LO	4LS2	X			
	LO	4LS3	X			
	LO	6LS2	X			
	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			
	RV, EA, EB, EC	4SF2		X	X	X
RV, EA, EB, EC	4SF3		X			
RV, EA, EB, EC	4DX2		X	X	X	
RV, EA, EB, EC	4DX3		X			

- † 1 Lineside BSA or FGA.
- 2 Trunkside BSA-950 Option or FGB.
- 3 Trunkside BSA-MTS/WATS Option.
- 4 Trunkside BSA-101XXXX Option or FGD.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

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

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Switched Access Service†			
			1	2	3	4
2 (Cont'd)	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	
	Out of band signaling	4NO2				X
3	LO, GO	4AH5-B		X		
	RV, EA, EB, EC	4AH5-B		X	X	X
	Out of band signaling	4AH5-B				X
4	LO, GO	4AH6-C	X			
	RV, EA, EB, EC	4AH6-C		X	X	X
	Out of band signaling	4AH6-C				X
5	LO, GO	4AH6-D	X			
	RV, EA, EB, EC	4AH6-D		X	X	X
	Out of band signaling	4AH6-D				X
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
	Out of band signaling	4DS9-15				X
	64CCC	4DS9-15S				X
7	LO, GO	4DS9-31	X			
	RV, EA, EB, EC	4DS9-31		X	X	X
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31L		X	X	X
	Out of band signaling	4DS9-31				X

- † 1 Lineside BSA or FGA.
- 2 Trunkside BSA-950 Option or FGB.
- 3 Trunkside BSA-MTS/WATS Option.
- 4 Trunkside BSA-101XXXX Option or FGD.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(5) Interface Groups (Cont'd)

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

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Switched Access Service†			
			1	2	3	4
8	LO, GO	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X
	Out of band signaling	4DS0-63				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
	Out of band signaling	4DS6-44				X
64CCC	4DS6-44				X	
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
	Out of band signaling	4DS6-27				X

(6) Nonchargeable Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following nonchargeable optional features in association with Switched Transport.

(a) Supervisory Signaling

Where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

- † 1 Lineside BSA or FGA.
- 2 Trunkside BSA-950 Option or FGB.
- 3 Trunkside BSA-MTS/WATS Option.
- 4 Trunkside BSA-101XXXX Option or FGD.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(6) Nonchargeable Optional Features (Cont'd)

(a) Supervisory Signaling (Cont'd)

For Interface Groups 1 and 2

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

For Interface Group 2

SF Supervisory Signaling, or  
Tandem Supervisory Signaling

For Interface Groups 6 through 10

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

These optional supervisory signaling arrangements are not available in combination with Trunkside BSA-101XXXX Option and Feature Group D with out of band signaling.

(b) Customer Specified Entry Switch Receive Level

This feature allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Groups 2 through 10 for Lineside BSA, Trunk-side BSA-950 Option and Feature Groups A and B.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(6) Nonchargeable Optional Features (Cont'd)

(c) Customer Specification of Switched Transport Termination

This option allows the customer to specify, for Trunkside BSA-950 Option or Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Switched transport at the entry switch in lieu of a Telephone Company-selected two-wire termination. This option is available only when the Trunkside BSA-950 Option or Feature Group B arrangement is provided with type B transmission specifications.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(6) Nonchargeable Optional Features (Cont'd)

(d) Out of band Signaling

1. This ordering option allows the customer to exchange signaling for Trunkside BSA-101XXXX Option and Feature Group D call setup over a communications path which is separate from the message path. This option is provided with SS7 protocol and is only available with Trunkside BSA-101XXXX Option and Feature Group D. This option requires the establishment of a Common Channel Signaling Access Service between the customer's SPOI and the Telephone Company's STP as specified in 6.2 following.

2. Out of band signaling is provided in both the originating and terminating direction on Trunkside BSA-101XXXX Option and FGD service.

Each signaling connection is provisioned for two-way transmission of out of band signaling information.

3. Customers ordering out of band signaling are subject to the requirements specified in 2.3 preceding.

4. Out of band signaling is subject to the rates and charges as specified in 6.9 following.

5. Conversion from HF signaling to SS7 signaling or from SS7 signaling to 64 Clear Channel Capability (64CCC) is not subject to charges as specified in 6.9 following. These conversions will be performed at Telephone Company access tandems and end offices designated as having SS7 or 64CCC. The number of trunks converted to SS7 signaling cannot exceed the number of trunks with MF signaling that are converted, and the number of trunks converted to 64CCC cannot exceed the number of trunks with MF or SS7 signaling that are converted. The customer must retain the same technical interface specifications unless otherwise mutually agreed upon by the Telephone Company and the customer, when appropriate Telephone Company central office switching equipment and other facilities exist. Conversion of tandem or end office trunks from MF signaling to SS7 signaling or from SS7 signaling to 64CCC will be scheduled on a project basis by the Telephone Company, in cooperation with the customer.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(6) Nonchargeable Optional Features (Cont'd)

(d) Out of band Signaling (Cont'd)

6. At the customer's request, the Telephone Company will modify Trunkside BSA-101XXXX Option and FGD with out of band signaling to accept SS7 signaling messages and protocol as specified pursuant to successful completion of testing specified in section 6.2 following.
7. 64 Clear Channel Capability (64CCC) will be provided in connection with Trunkside BSA-101XXXX Option and FGD with out of band signaling digital trunk facilities provisioned at Interface Group 5 or 9, where appropriate Telephone Company equipment and other facilities exist.
8. 64CCC is provided through the use of Bipolar with Eight-Zeros Substitution line code which must be provided in both directions of transmission. 64CCC will be provisioned on T1 facilities whose digital transmission signaling is framed in the Extended Superframe Format. The same framing format must be used in both directions of transmission.
9. 64CCC requires the establishment of CCSAS as specified in section 6.2 following. When 64CCC is ordered, the Telephone Company will schedule additional network compatibility and other operational tests as specified in 6.2 following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(7) Chargeable Optional Features

(a) Toll Free Data Base Access Service

1. Basic Query Charge

The basic query charge is assessed the customer based on the query of the Toll Free code+NXX+XXXX number dialed and/or delivered to the customer in conjunction with Toll Free Data Base Access Service. Toll Free code+NXX+XXXX calls delivered to the customer are routed based on information derived via queries to the Toll Free Data Base.

2. Vertical Feature Package Charge

The vertical feature package charge is assessed the customer when, in addition to the basic query, a Toll Free Data Base query contains one, all, or any combination of the vertical features as described in 6.4.3(A) following.

(b) Multiplexing

Multiplexing provides the capability of converting the capacity or bandwidth of a facility from a higher level to a lower level or from a lower level to a higher level. Multiplexing arrangements available for Entrance Facilities and Direct Trunked Transport facilities are described in 1. and 2. following. Rates and charges are set forth in Section 6.9 following.

When the customer requests Tandem Switched Transport and Direct Trunked Transport to connect to the same Entrance Facility, multiplexing is required at the SWC and must be ordered by the customer as a chargeable optional feature of the Entrance Facility as set forth in 1. and/or 2. following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(7) Chargeable Optional Features (Cont'd)

(b) Multiplexing (Cont'd)

Chargeable multiplexing arrangements ordered with an Entrance Facility at a SWC or a Direct Trunked Transport facility at an end office are associated with the facility with the higher capacity or bandwidth (e.g., a DS1 to Voice Grade multiplexing arrangement is associated with the facility using a DS1 connection).

1. DS1 to Voice Grade

An arrangement that converts a DS1 channel to twenty-four Voice Grade channels utilizing time division multiplexing. For example, the customer has the option of ordering a DS1 to Voice Grade multiplexing for the Entrance Facility at the SWC when Voice Grade Direct-Trunked Transport is requested to an end office. A DS1 to Voice Grade multiplexing is required at the end office when the customer orders Lineside Access which is transported via a DS1 Direct-Trunked Transport facility.

2. DS3 to DS1

An arrangement which converts a DS3 channel to twenty-eight DS1 channels utilizing time division multiplexing. The twenty-eight channels may be further multiplexed utilizing DS1 to Voice Grade multiplexers. DS3 to DS1 multiplexing is available as a chargeable optional feature for Entrance Facilities and Direct Trunked Transport facilities. DS3 to DS1 multiplexing is always required at the SWC of the customer's premises when a DS3 Entrance Facility is to connect to a lower level of capacity.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Switched Transport (Cont'd)

(7) Chargeable Optional Features (Cont'd)

(c) Diversity

Diversity denotes that a service must be provided over not more than two different physical routes. The rates for Diversity as specified in 11.2 following, applies per entrance facility, and is in addition to the entrance facility and channel mileage rates and charges for each high capacity service.

(d) Shared Network Arrangement

1. A Shared Network Arrangement is a service offering that enables a customer (the "Service User") to connect subtending services to the multiplexed High Capacity service or **IntelliMux**<sup>sm</sup> service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate records and billing for each. Each customer will be billed for those rate elements associated with his own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending Voice Grade or Data Digital circuits from a Host's multiplexed DS1 service, or DS1 circuits from a Host's multiplexed DS3 service.
2. Under the Shared Network Arrangement, the telephone company may share with the host subscriber record information pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the telephone company as is necessary to perform billing reconciliations and/or other functions required in connection with maintaining account records.
3. Rate regulations specific to Shared Network Arrangements are contained in 6.8 following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office

The End Office rate category provides the local end office switching and end user termination functions necessary to complete the transmission of switched access communications to and from the end users served by the local end office. The End Office rate category includes the local switching, line termination, intercept and information (i.e., Directory Assistance) rate elements. Directory Assistance Service and the applicable rates for it are specified in Section 9 of this tariff.

(1) Local Switching

The Local Switching rate element provides for the use of end office switching equipment.

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with LS2. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through FGD equipped end office.

Local Switching rates, are set forth in 6.9.1(A) following. The application of these rates with respect to switched access is as set forth in 6.8.1(D) following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

There are two types of local switching functions, i.e., Common Switching functions and Transport Termination functions. These are described in (a) and (b) following.

(a) Common Switching

The Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group Services, Lineside and Trunkside BSAs) switching arrangements. The Common Switching arrangements provided for the various Switched Access Arrangements are described in 6.2 following.

Included as part of Common Switching are various nonchargeable optional features which the customer can order to meet customer's specific communications requirements. These optional features are described in 6.4.1 following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(b) Transport Termination

Transport Termination provides for the line or trunk side arrangements which terminate the Switched Transport facilities. Included as part of Transport Termination are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.4.2 following.

The number of Transport Terminations provided will be determined by the Telephone Company as specified in 6.6.6 following.

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Frontier West Virginia Inc.

Section 6  
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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(2) Toll Free Access Service Nonrecurring Charge

The Toll Free Access Service nonrecurring charge is assessed to the customer based on NXXs activated, or deactivated, in conjunction with Toll Free Access Service. The charge varies depending on how the customer orders NXXs activated or deactivated, i.e., by State or LATA. When ordered by LATA, for both NXXs activated and deactivated, each NXX in the LATA is subject to the charge. Subsequent NXXs ordered activated or deactivated in a different LATA will again be subject to the charge. When ordered by State, for both NXXs activated or deactivated, the charge applies for each NXX only once even if multiple LATAs are involved.

(3) Operator Transfer Service Charge

The Operator Transfer Service charge is assessed the customer based on the number of zero minus calls transferred to the customer by the Telephone Company operator, i.e., the customer's end user dials only the zero digit with no additional digits. Rates and charges are specified in 6.9.4 following.

The Operator Transfer Service charge recovers the costs associated with operator functions required to transfer end users to the customer of choice for operator services.

The number of end office switching transmission paths will be determined as specified in 6.6.5 following.

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SWITCHED ACCESS SERVICE

6.1 General (Cont'd)

6.1.3 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-only) are set forth in Section 11 following.

6.1.4 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. Design Layout Reports will also be provided for WATS Access Lines when specifically requested by the customer. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

6.1.5 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling. When the Switched Transport is provided with interface Groups 2 through 10, and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Switched Transport), balance parameters (equal level echo path loss) may also be tested.

6.1.6 Ordering Options and Conditions

Switched Access Service is ordered under the Access Order provisions set forth in Section 5 preceding. Also, included in that section are other charges which may be associated with ordering Switched Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

6.2 Provision and Description of Switched Access Service Arrangements

Switched Access Feature Group Service is provided in three different service arrangements; Feature Groups A, B and D. The provision of each arrangement requires Switched Transport facilities and the appropriate end office functions. In addition, WATS Access Line Service may, at the option of the customer, be provided for use with Feature Groups A, B, and D.

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SWITCHED ACCESS SERVICE

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

There are three specific transmission specifications, Types A, B and C, that have been identified for the provision of Switched Access Arrangements. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are specified in 6.5.1 following.

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered, while Toll Free Data Base Access Service is arranged for originating only. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's premises. Terminating calling permits the delivery of calls from the customer's premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases the Telephone Company will work cooperatively with the customer to determine the directionality.

There are various nonchargeable and chargeable optional features available with the Switched Access Arrangements. These additional optional features are provided as Switched Transport, Common Switching or Transport Termination options.

Following are detailed descriptions of each of the available Feature Groups. Each Feature Group is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in 6.4 following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

6.2.1 Feature Group A (FGA)

(A) Description

- (1) FGA is provided in connection with Telephone Company electronic end offices. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. FGA is arranged for use by the customer in the provision of its FX/ONAL service or MTS/WATS-type service.

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SWITCHED ACCESS SERVICE

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

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

- (2) FGA provides a line side termination at the first point of switching. The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.
- (3) The Telephone Company shall select the first point of switching, within the selected LATA, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities, where necessary, are available to accommodate such a request.
- (4) A seven-digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven-digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven-digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

- (5) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.
- (6) No address signaling is provided by the Telephone Company when FGA Switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using in band tone

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SWITCHED ACCESS SERVICE

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

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(6) (Cont'd)

signaling techniques. Such in band tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Switched Transport provided.

- (7) FGA providing MTS/WATS type service, when used in the terminating direction, may be employed to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers services (by dialing the appropriate digits). Charges for FGA terminating calls requiring operator assistance or calls to 911 will only apply where sufficient call details are available. Additional nonaccess charges will also be billed on a separate account for 1) an operator surcharge, as set forth in the General Services Tariff for local operator assistance (0- and 0+) calls, 2) calls to certain community information services, for which rates are applicable under the General Services Tariff, e.g., 976 Network Services, and, 3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing for that customer. For calls to Directory Assistance (411 where available and 555-1212), Local transport rates for FGA Switched Access Service will not apply. Instead, Switched Transport for calls to this service is subject to a per-call rate as set forth in 9.6(B) following. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service call rate set forth in 9.6(A) following.

FGA providing FX/ONAL service, when used in the terminating direction, may be employed to access the services listed preceding within the Local Service Area only. FX/ONAL traffic terminating outside the Local Service Area but within the LATA is subject to rates and charges for intraLATA toll calls as

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SWITCHED ACCESS SERVICE

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

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(7) (Cont'd)

specified in the Long Distance Services Tariff, in addition to rates and charges that apply in this tariff. FX/ONAL installations in service prior to February 15, 1987 will be allowed to continue under the regulations effective prior to this date. As of February 15, 1987, additions, changes and moves of these existing installations will no longer be permitted.

- (8) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.
- (9) Customers with FGA may obtain a directory listing at the rates specified in the General Services Tariff for Regular and Special Types of Business Additional Listings.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Hunt Group Arrangement  
(b) Uniform Call Distribution Arrangement  
(c) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement  
(d) Call Denial  
(e) Service Code Denial  
(f) WATS Access Line Service with the following options:
- I. Hunt Group Arrangement
  - II. Uniform Call Distribution Arrangement
  - III. Nonhunting Number for use with Hunt Group or Uniform Call Distribution Arrangements
  - IV. Code Screening
  - V. Overflow Advance Arrangement

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SWITCHED ACCESS SERVICE

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

6.2.1 Feature Group A (FGA) (Cont'd)

(B) Optional Features (Cont'd)

(2) Transport Termination Optional Features

- (a) Two-way operation with dial pulse address signaling and loop start supervisory signaling
- (b) Two-way operation with dial pulse address signaling and ground start supervisory signaling
- (c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (e) Terminating operation with dial pulse address signaling and loop start supervisory signaling
- (f) Terminating operation with dial pulse address signaling and ground start supervisory signaling
- (g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (h) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (i) Originating operation with loop start supervisory signaling
- (j) Originating operation with ground start supervisory signaling

(3) Switched Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.2(A)(6)(a) preceding)
- (b) Customer Specified Entry Switch Receive Level

(4) Certain other features which may be available in connection with Feature Group A are provided under the Telephone Company's other tariffs. These are:

- (a) Speed Dialing
- (b) Remote Call Forwarding
- (c) Billed Number Screening
- (d) IntraLATA extensions

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SWITCHED ACCESS SERVICE

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

6.2.1 Feature Group A (FGA) (Cont'd)

(C) Transmission Specifications

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1, and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(D) Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven-digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing and Non-Scheduled Testing are available for FGA as set forth in 13.3.4 following.

6.2.2 Feature Group B (FGB)

(A) Description

- (1) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic end office switches. (C)
- (2) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.
- (3) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth in 6.4 following, any other address signaling in the originating direction, if required by the

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SWITCHED ACCESS SERVICE

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

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

(3) (Cont'd)

customer, must be provided by the customer's end user using in band tone signaling techniques. Such in band tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Switched Transport provided.

- (4) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-10XX for carriers. One uniform access code will be assigned to the customer for the customer's domestic communications and another will be assigned to the customer for its international communications, if required. These uniform access codes will be the assigned access numbers of all FGB switched access service provided to the customer by the Telephone Company.
- (5) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional nonaccess charges for calls to certain community information services for which rates are applicable under the General Services Tariff, e.g., 976 Network Service. Additionally, nonaccess charges will also be billed for calls from a FGB Trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-10XX access codes, local operator assistance (0- and 0+), Directory Assistance (411 where available and 555-1212), service code 911 where available) or 101XXXX access codes. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C and D, and to Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, and Trunkside BSA-101XXXX Option.

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SWITCHED ACCESS SERVICE

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

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

- (6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group subject to the availability of the Telephone Company equipment.
- (7) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Up to 7-Digit Outpulsing of Access Digits to Customer
- (c) WATS Access Line Service with the following options:
  - I. Hunt Group Arrangement
  - II. Uniform Call Distribution Arrangement
  - III. Nonhunting Number for use with Hunt Group or Uniform Call Distribution Arrangements
  - IV. Code Screening
  - V. Overflow Advance Arrangement

(2) Transport Termination Optional Features

- (a) Rotary Dial Station Signaling

(3) Switched Transport Optional Features

- (a) Customer Specification of Switched Transport Termination
- (b) Supervisory Signaling as specified in 6.1.2(A)(6)(a) preceding

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SWITCHED ACCESS SERVICE

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

6.2.2 Feature Group B (FGB) (Cont'd)

(B) Optional Features (Cont'd)

(3) Switched Transport Optional Features (Cont'd)

(c) Customer Specified Entry Switch Receive Level

(4) Another feature, Billed Number Screening, may be available in connection with FGB.

(C) Transmission Specifications

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

(D) Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Non-scheduled Testing are available as set forth in 13.3.4 following.

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

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

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD)

(A) Description

- (1) FGD is provided at Telephone Company designated electronic end office switches whether routed directly or via Telephone Company designated electronic access tandem switches.

FGD with out of band signaling is provided where facilities permit through Telephone Company designated switches.

- (2) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling or without signaling when out of band signaling is specified.

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

- (3) FGD switching is provided with multifrequency address signaling. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multi-frequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Switched Transport provided.

FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services, i.e., by dialing the appropriate codes, when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under the Local Exchange Services Tariff, e.g., any 976 Network Service. Additionally, nonaccess charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-10XX access codes; local operator assistance, 0- and 0+; service codes, 911 where available; and 101XXXX access codes. Calls will not be completed to Directory Assistance, 411 where available and 555-1212, unless FGD switching is combined with Directory Assistance switching. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B or D and to Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Trunkside BSA-101XXXX Option.

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

- (5) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, or in the case of Operator Transfer Service, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (6) The access code for FGD switching is a uniform access code of the form 101XXXX. A single access code will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is for presubscription to that customer, as specified in Section 13 following.

Where no access code is required, the number dialed by the customer's end user shall be a seven- or ten-digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven- to twelve-digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXX- and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

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

- (7) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing 101XXXX uniform access code. Each Exchange Service line may be marked with a presubscription code to identify which 101XXXX code its calls will be directed to for service. Presubscription codes are applied as specified in Section 13 following.

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

- (8) A WATS Access Line may, at the option of the customer, be provided for use with FGD Switched Access Service. A WATS Access Line provides a connection between a customer's end user's premises and a Telephone Company end office switch capable of performing the necessary screening functions for Toll Free Service, WATS or similar services and is provided only for use at the closed end of such services.

WATS Access Lines are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

WATS Access Lines are provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as specified in 6.5.1 and 6.5.2 following. At the option of the customer, the WATS Access Line may be ordered with the Improved Two-wire Voice Transmission Specifications. Guaranteed specifications are as specified in 6.4.3 following.

- (9) At the option of the customer, Operator Transfer Service, as specified following, is available for use with Feature Group D. Operator Transfer Service is ordered as specified in 5.2 preceding and is provided to the customer via separate FGD trunks dedicated to Operator Transfer Service traffic.

Operator Transfer Service is an arrangement in which Telephone Company operators transfer zero minus end user dialed calls, i.e., the end user dials zero with no additional digits, to the customer designated by the end user.

The operator transfer function will be performed in the following manner:

The operator answers the end user zero minus dialed call.

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

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(9) (Cont'd)

Initially, the operator will direct the end user to dial the interexchange carrier on a direct basis. If the end user insists that the Operator complete the call, the operator will ask the end user to identify the Operator Services provider, or customer, to which they desire to be connected. The operator will then transfer the call to the designated service provider.

If the end user has no preference, or the identified service provider has not subscribed to Operator Transfer Service, the end user will be asked to select from a list of available service providers.

The list of available Operator Transfer Service customers will be updated monthly. The order in which the interexchange carriers will be read to end users will be initially determined by lottery. For each subsequent monthly update, following the initial order selection, the interexchange carrier in the first position on the list will be moved to the last position on the list. All other interexchange carriers on the list will be moved up one position, e.g., 3rd to 2nd, 2nd to 1st, etc. New Operator Transfer Service interexchange carriers will be placed at the bottom of the list of interexchange carriers pending the next monthly update.

Zero minus Public Telephone Service calls will be transferred to the end user designated interexchange carrier. When the call is coin sent-paid, the inter-exchange carrier, in order to accept such calls, will be required to order signalling as specified in TR-TSY-000506 and TR-NPL-00258.

The interexchange carrier may receive inband, multiwink, or expanded inband coin control signalling, where available, from end offices served by an Operator Services access point. Different signalling types cannot be mixed on a single trunk group.

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(9) (Cont'd)

All rates and charges normally applicable to Trunkside BSA-101XXXX Option and FGD, i.e., nonrecurring, monthly and usage sensitive, apply to Operator Transfer Service. Additionally, a charge as specified in 6.1.2(B)(3) preceding, and 6.9.4 following, is assessed the interexchange carrier per zero minus call transferred.

This option is not available in combination with out-of-band signaling.

- (10) At the option of the customer, Switched 56-kilobit Service is available for use with Feature Group D. Switched 56-kilobit Service traffic is ordered as specified in Section 5.2. of this tariff, and is delivered to the customer via separate FGD trunks capable of supporting 56 kbps digital transmission.

Switched 56-kilobit Service is an arrangement whereby customers may receive or send data at a speed of 56 kbps from designated switches over dedicated trunks. The number dialed by the customer's end user shall be a seven- or ten-digit number in the form of NXX=XXXX, 1+NPA+NXX-XXXX, 101XXXX+NXX-XXXX, NPA+XXX-XXXX, 1+NPA=NXX-XXXX, or 101XXXX+NPA+NXX-XXXX.

All rates and charges normally applicable to Feature Group D, i.e., nonrecurring, monthly, and usage sensitive, apply to Switched 56-kilobit Service.

(B) Optional Features

(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Service Class Routing
- (c) Alternate Traffic Routing

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD) (Cont'd)

(B) Optional Features (Cont'd)

(1) Common Switching Optional Features (Cont'd)

- (d) Call Gapping Arrangement
- (e) Trunk Access Limitation
- (f) International Carrier Option
- (g) Code Screening for Use with WATS Access Lines
- (h) Hunt Group Arrangement for Use with WATS Access Lines
- (i) Uniform Call Distribution Arrangement for Use with WATS Access Line Service
- (j) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service
- (k) Overflow Advance Arrangement for Use with WATS Access Line Service

(2) Transport Termination Optional Features

Operator Trunk, Full Feature Arrangement

(3) Switched Transport Optional Features

- (a) Supervisory Signaling, as specified in 6.1.2(A)(6) preceding.
- (b) Toll Free Data Base Access Service

(C) Transmission Specifications

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

When routed directly to the end office, either Type B or C is provided.

When routed to an access tandem, only Type A is provided.

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SWITCHED ACCESS SERVICE

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

6.2.3 Feature Group D (FGD) (Cont'd)

(C) Transmission Specifications (Cont'd)

Type A is provided on the transmission path from the access tandem to the end office.

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

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

For Toll Free Data Base Access Service traffic originating from end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customer's premises.

FGD trunks equipped for Operator Transfer Service are subject to FGD transmission specifications unless otherwise specified.

(D) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven-digit access to balance, 100 type, test line; milliwatt, 102 type, test line; nonsynchronous or synchronous test line; automatic transmission measuring, 105 type, test line; data transmission, 107 type, test line; loop around test line; short circuit test line; and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing, and Nonscheduled Testing, are available for FGD as specified in 13.3.4 following.

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SWITCHED ACCESS SERVICE

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

6.2.4 Common Channel Signaling Access Service

Common Channel Signaling Access Service (CCSAS) enables a customer that is connected to the Telephone Company's SS7 network to exchange SS7 messages among and between interconnected switching elements and signaling transfer points (STPs). CCSAS connectivity will support the functions of all other network elements connected to the Telephone Company's SS7 network. This includes the use of the Telephone Company's SS7 network to convey messages which neither originate nor terminate at a Telephone Company signaling point (SP) or service switching point (SSP) (i.e., transient messages). When the Telephone Company's SS7 network is used to convey these transient messages, there shall be no alteration of the Integrated Services Digital Network User Part (ISDNUP) or the Transaction Capabilities Application Part (TCAP) user data that constitutes the content of the message. CCSAS connectivity also includes use of the Telephone Company's SS7 network to convey messages initiated from a customer's SSP to the Telephone Company's AIN Signaling Control Point (SCP), LID8, Toll Free and BVS databases.

CCSAS is provisioned for two-way transmission of out-of-band SS7 signaling information.

Each CCSAS Signaling Connection provides two-way digital transmission at a speed of 56 Kbps. The connection to the Telephone Company's STP pair can be made from either the customer's SP, which requires a minimum of two 56 Kbps circuits, or from the customer's STP pair, which requires a minimum of four 56 Kbps circuits. The STP locations are set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. (NECA) TARIFF F.C.C. NO. 4. Where multiple STP pairs are deployed in a Telephone Company LATA, Telephone Company end offices or tandems are interconnected to only one STP pair. The customer must route terminating traffic to the STP pair serving the end office or tandem switch where the call is to be terminated.

Customers ordering CCSAS in connection with BSA-101XXXX Option and FGD are subject to the requirements specified in 2.3.9 and 2.3.10 preceding.

When CCSAS is ordered, network compatibility and other operational tests will be performed jointly between the Telephone Company and the customer at locations, dates, and times as specified by the Telephone Company in consultation with the customer. These tests are as specified in Generic Requirements GR-905-CORE, Issue 1, March 1995. When a 64 Kbps clear channel circuit (CCC) is ordered, the SS7 interfaces as specified in Technical Reference TR-TSV-00962, Issue 1, September, 1990, will also be tested. Successful completion of the appropriate tests is necessary to receive CCSAS. To protect the security of the network, certain information (i.e., point codes) provided by the Telephone Company to the customer will be subject to a non-disclosure agreement. (T)

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SWITCHED ACCESS SERVICE

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

6.2.4 Common Channel Signaling Access Service (Cont'd)

At the customer's request, CCSAS will be modified to accept SS7 signaling messages and protocol specified in TR-TSV-00962, Issue 1, September, 1990, when Trunkside BSA-101XXXX Option and FGD with out-of-band signaling is provided in accordance with 6.1.2(A)(6)(d). Successful completion of testing in accordance with TR-TSV-00962 is also required in this scenario.

CCSAS is subject to the rates and charges as specified in 6.9.1(K) following. A monthly recurring distance-sensitive STP Mileage charge will be assessed on a per dedicated 56 kbps out-of-band signaling connection basis for transport of signaling information between the customer's SPOI and the Telephone Company's STP. A monthly recurring STP Port charge will be assessed on a per port basis for the customer's dedicated port at the Telephone Company's STP. A non-recurring Switched Access Connection charge will be assessed per 56 Kbps dedicated out-of-band signaling connection.

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SWITCHED ACCESS SERVICE

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

6.2.5 Switched Transport Facilities

Customers requesting Lineside or Trunkside Switched Access service must specify the type of Entrance Facility, such as DS3, DS1, or Voice Grade. The customer must also specify if Direct Trunked Transport or Tandem Switched Transport is desired. Tandem Switched Transport is not available for Lineside Switched Access Service. If Direct Trunked Transport is requested, the customer must specify the type of Direct Trunked Transport facility, DS3, DS1, or Voice Grade to be used. If Tandem Switched Transport is requested, the Telephone Company shall determine the type of facilities to be used from the SWC of the customer's premises to the end office, via the access tandem, unless the customer has ordered Direct Trunked Transport to the tandem. The Telephone Company will base its determination on a per trunk basis provided by the customer when ordering service.

The types of facilities available to the customer for Entrance Facilities and Direct Trunked Transport facilities for Lineside or Trunkside Switched Access service are voice grade, DS1 and DS3. Following is a brief description of each type of facility. Each type has its own characteristics and is available with multiplexing options as set forth in 6.1.2 preceding.

(a) Voice Grade Facility

A Voice Grade facility is an electrical communications path which provides voice-frequency transmission in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Compatible Interface Groups are described in 6.1.2 preceding.

(b) DS1 Facility

DS1 facilities are available for Entrance Facilities and for Direct Trunked Transport facilities. A DS1 facility is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice-frequency transmission paths. Compatible Interface Groups are described in 6.1.2 preceding.

(c) DS3 Facility

DS3 facilities are available for Entrance Facilities and Direct Trunked Transport facilities. A DS3 facility is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice-frequency transmission paths. Compatible Interface Groups are described in 6.1.2 preceding.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs

Switched Access Service is also provided in the form of three unbundled Basic Serving Arrangements (BSAs)-Lineside, Trunkside and Dedicated Network Access Line (DNAL) connections. The provision of Lineside and Trunkside BSAs requires Switched Transport facilities and the appropriate Local Switching functions. The provision of DNAL BSAs requires Channel Mileage Facilities and the appropriate Channel Termination functions.

There are also various Switched Transport and Local Switching optional features and Basic Service Elements (BSEs) available with a BSA. Unless specifically stated otherwise, these BSEs and features are available at most Telephone Company end office switches. WATS Access Line Service termination optional features and BSEs are available only in the end office designated as WATS serving offices.

There are three specific transmission specifications (i.e., Types A, B, and C) that have been identified for the provision of BSAs. The specifications provided are dependent on the interface group and the routing of the service (i.e., whether the service is routed directly to the end office or via an access tandem). The parameters for the transmission specifications are set forth in section 6.5 following.

Lineside and Trunkside BSAs are arranged for either originating, terminating or two-way calling, based on the customer end office switching capability ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's premises. Terminating calling permits the delivery of calls from the customer's premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality.

Following are detailed descriptions of each of the available BSAs. Each BSA is described in terms of its specific physical characteristics, the transmission specifications with which it is provided, the optional features and BSEs available for use with it, and the standard testing capabilities.

The name of the BSA offered and the name of the service as provided are Lineside BSA (identified in Bell Operating Companies ONA Services User Guide, Service Description section, dated July 31, 1991 as Circuit Switched Lineside BSA) and Trunkside BSA (identified in Bell Operating Companies ONA Services User Guide, Service Description section, dated July 31, 1991 as Circuit Switched Trunkside BSA).

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA

(A) General Description

- (1) Lineside BSA is provided in connection with the Telephone Company electronic end offices. At the option of the customer, Lineside BSA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. Lineside BSA, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's interstate service or a customer provided interstate communications capability. The customer must specify the Interexchange Carrier to which the Lineside BSA service is connected or, in the alternative specify the means by which the Lineside BSA access communications are transported to another state. (C)
- (2) Lineside BSA provides for a lineside termination at the first point of switching, which shall be selected by the Telephone Company within the requested LATA, unless the customer requests a different location at which Telephone Company facilities and measurement capabilities are available to accommodate such a request.
- (3) The Telephone Company assigns a seven digit telephone number associated with the selected end office to provide access to Lineside BSA in the originating direction. The assigned number will be in the form NXX-XXXX. If the customer requests a specific number that is currently unassigned, the requested number will be assigned to the customer if the Telephone Company can comply with that request with reasonable effort.
- (4) Calls from end users to the seven digit telephone numbers associated with Lineside BSA may be subject to Telephone Company Local and/or General Exchange Service tariff charges (including message unit and toll charges, as applicable). The monthly bills rendered to customers for their Lineside BSA service for which section 3, Carrier Common Line Access Service charges apply will include a credit to reflect message unit charges collected from their end users under the Telephone Company's Local and/or General Exchange Service tariffs. The credit will apply for recorded or assumed

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(A) General Description (Cont'd)

(4) (Cont'd)

originating usage, as appropriate, for the Lineside BSA service provided. When the credit is applied on assumed usage, such credit will not exceed the assumed levels of usage set forth in section 6.8.6. No credit will apply for any terminating Lineside BSA access minutes. The message unit credit for originating Lineside BSA access minutes is set forth in section 6.8.9.

(5) At the option of the customer, Lineside BSA will be provided:

(a) with either ground start or loop start supervisory signaling and

(b) on a single or multiple line-group basis.

(6) When Lineside BSA is used in the originating direction, no address signaling is provided by the Telephone Company. If such signaling is required, it must be provided by the customer's end user using inband tone signaling techniques. Inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

(7) When used in the terminating direction, Lineside BSA is arranged with dial tone start-dial signaling. At the option of the customer, terminating Lineside BSA may be arranged for dial pulse or dual tone multifrequency address signaling, subject to the availability of equipment at the first point of switching. When Lineside BSA is provided with a hunt group or uniform call distribution arrangement BSE, all Lineside BSAs will be arranged for the same type of address signaling.

Lineside BSA switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customer's services (by dialing the appropriate digits). Charges for Lineside BSA

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(A) General Description (Cont'd)

(7) (Cont'd)

terminating calls requiring operator assistance or calls to 911 will only apply where sufficient call details are available.

- (8) Additional non-access charges will also be billed on a separate account for (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 Network Services, and, (3) calls from a Lineside BSA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. For Lineside BSA calls to Directory Assistance (411 where available and 555-1212), Switched Access Service usage rates will not apply. Instead, Lineside BSA calls to this service are subject to the Directory Assistance and Directory Assistance Service per call rates as set forth in section 9.6(B) following.

- (9) When Lineside BSA for an individual customer (A single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been discontinued.

(B) Lineside BSA Optional Features and BSEs

(1) Common Switching

- (a) Hunting Service Arrangements (BSE)
- (b) Uniform Call Distribution Arrangement (BSE)
- (c) Non-Hunt Directory Numbers (BSE)
- (d) Call Denial (Optional Feature)
- (e) Service Code Denial (Optional Feature)
- (f) Toll Billing Exception (Optional Feature)

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(B) Lineside BSA Optional Features and BSEs (Cont'd)

(1) Common Switching (Cont'd)

- (g) WATS Access Line Service with the following options:
  - (1) Hunt Group Arrangement (Optional Feature)
  - (2) Uniform Call Distribution Arrangement (Optional Feature)
  - (3) Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (Optional Feature)
  - (4) Code Screening (Optional Feature)
  - (5) Overflow Advance Arrangement (Optional Feature)
- (h) Answer Supervision with a Line Side Interface (BSE)
- (i) Make Busy Arrangement (BSE)
- (j) Three-Way Call Transfer (BSE)

(2) Transport Termination

- (a) Two-way operation with dial pulse address signaling and loop start supervisory signaling.
- (b) Two-way operation with dial pulse address signaling and ground start supervisory signaling.
- (c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling.
- (d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling.
- (e) Terminating operation with dial pulse address signaling and loop start supervisory signaling.
- (f) Terminating operation with dial pulse address signaling and ground start supervisory signaling.
- (g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling.
- (h) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling.
- (i) Originating operation with loop start supervisory signaling.
- (j) Originating operation with ground start supervisory signaling.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(B) Lineside BSA Optional Features and BSEs (Cont'd)

(3) Switched Transport

(a) Supervisory Signaling (as set forth in 6.1.2(A)(6)(a) preceding).

(b) Customer Specified Entry Switch Receive Level

(4) Certain other features which may be available in connection with Lineside BSA are provided under the Telephone Company's General Subscriber Service Tariffs. These are:

(a) Call Forwarding

(b) Call Waiting

(c) Speed Dialing

(d) Remote Call Forwarding

(e) IntraLATA extensions

(f) Directory listings

(C) Transmission Specifications

Lineside BSA is provided with either Type A or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 9. Type DB Data Transmission Parameters are provided with Lineside BSA to the first point of switching.

(D) Testing Capabilities

Lineside BSA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) text and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing and Nonscheduled Testing are available for Lineside BSA as set forth in section 13.3.4 following.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA

Trunkside BSA is provided in switched access packages. These are differentiated by their technical characteristics, e.g., the manner in which an end user accesses them in originating calls. Three options are offered as Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Trunkside BSA-101XXXX Option. The Trunkside BSA-950 Option is provided as set forth in 6.3.2.1 following. The Trunkside BSA-MTS/WATS Option is provided as set forth in 6.3.2.2 following. The Trunkside BSA-101XXXX Option is set forth in 6.3.2.3 following.

Trunkside BSAs provide trunk side access to Telephone Company end office switches, either directly or through a Telephone Company designated Switched Access Service tandem switch. The Telephone Company will establish a trunk group (or groups) between the customer's premises and end office or access tandem switches, based on the technical limitations imposed by the type, directionality and quantity of traffic specified by the customer. Different Switched Access Service arrangements may be combined in a single group at the option of the Telephone Company.

6.3.2.1 Trunkside BSA-950 Option

(A) General Description

Trunkside BSA-950 Option, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 50-0XXX or 950-1XXX access code for non-Toll Free and non-900 Access Service for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's interstate service or a customer provided interstate communications capability. The customer must specify the Interexchange Carrier to which the Trunkside BSA-950 Option is connected or, in the alternative, specify the means by which the access communication is transported to another state.

Trunkside BSA-950 Option may be directly routed only to appropriately equipped electronic end office switches. Trunkside BSA-950 Option may be provided via Telephone Company-designated electronic access tandem switches to other Telephone Company electronic end office switches. (C)

SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA-950 Option (Cont'd)

(A) General Description (Cont'd)

Trunkside BSA-950 Option switch trunk equipment is provided with (a) wink start start-pulsing signaling and (b) answer and disconnect supervisory signaling.

Trunkside BSA-950 Option is provided with multifrequency address signaling. With exception of Trunkside BSA-950 Option provided with the automatic number identification (ANI) or rotary dial station signaling Local Switching optional features, any other address signaling required by the customer in the originating direction must be provided by the customer's end user using inband tone signaling techniques.

Inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

When all Trunkside BSA-950 Option service is discontinued at an end office and/or in a LATA, an intercept announcement indicating that the service associated with the number dialed has been discontinued will be provided for a limited period of time.

Trunkside BSA-950 Option switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 Network Service. Additionally,

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA-950 Option (Cont'd)

(A) General Description (Cont'd)

non-access charges will also be billed for calls from a Trunkside BSA-950 Option trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service code 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when Trunkside BSA-950 Option switching is combined with Directory Assistance Switching. The combination of Trunkside BSA - 950 Option Switched Access Service with Directory Assistance Service is provided as set forth in section 9 following.

Trunkside BSA-950 Option may not be switched, in the terminating direction, to Switched Access Service Lineside BSA, Trunkside BSAs, or Feature Groups. When a provider of MTS and WATS subscribes to both Trunkside BSA-950 Option and Trunkside BSA-MTS/WATS Option at any end office, all such Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Trunkside BSA-101XXXX Option usage originating and terminating at those end offices will be subject to the Carrier Common Line, Local Transport, Local Switching - LS2, and Information Subcharge rates set forth in 3.8 and 6.9.

(B) Trunkside BSA-950 Option Features and BSEs

(1) Common Switching

- (a) Automatic Number Identification (BSE)
- (b) Up to 7 Digit Outpulsing of Access Digits to customer (Optional Feature)

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA-950 Option (Cont'd)

(B) Trunkside BSA-950 Option Features and BSEs (Cont'd)

(1) Common Switching (Cont'd)

(c) WATS Access Line Service with the following options:

- (1) Hunt Group Arrangement (Optional Feature)
- (2) Uniform Call Distribution Arrangement (Optional Feature)
- (3) Non-hunting number for use with Hunt Group or Uniform Call Distribution Arrangements (Optional Feature)
- (4) Code Screening (Optional Feature)
- (5) Overflow Advance Arrangement (Optional Feature)

(2) Transport Termination

(a) Rotary Dial Station Signaling

(3) Switched Transport

- (a) Customer Specification of Switched Transport Termination
- (b) Supervisory Signaling (as set forth in 6.1.2(A)(6) preceding)
- (c) Customer Specified Entry Switch Receive Level

(C) Transmission Specifications

Trunkside BSA-950 Option is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with Trunkside BSA-950 Option to the first point of switching.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA-950 Option (Cont'd)

(D) Testing Capabilities

Trunkside BSA-950 Option is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as set forth in 13.3.4 following.

6.3.2.2 Trunkside BSA-MTS/WATS Option

(A) General Description

Trunkside BSA-MTS/WATS Option is available only to a customer furnishing interstate MTS/WATS. It is available in all Telephone Company end offices which are not equipped to provide Switched Access Service arrangements. Existing Trunkside BSA-MTS/WATS Option service will be converted to Trunkside BSA-101XXXX Option service when it becomes available in an end office.

No access code is required for Trunkside BSA-MTS/WATS Option switching. The telephone number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1+NXX-XXXX, NPA+NXX-XXXX, 0 or 1+NPA+NXX-XXXX. When the end office is equipped for International Direct Distance Dialing (IDDD) the form is 01+CC+NN or 011+CC+NN.

Trunkside BSA-MTS/WATS Option switch trunk equipment is provided with answer and disconnect supervisory

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA-MTS/WATS Option (Cont'd)

(A) General Description (Cont'd)

signaling. Wink start start-pulse signaling is provided in all offices where available. In those offices where wink start start-pulse signaling is not available, delay dial start-pulse signaling will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signaling is provided.

Trunkside BSA-MTS/WATS Option is provided with multi-frequency address signaling. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multi-frequency or dial pulse address signaling will be provided by the Telephone Company equipment to the customer premises where the Switched Access Service terminates. Called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided. (C)

Trunkside BSA-MTS/WATS Option switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when the services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. Where measurement capabilities exist, the customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 Network Service. Additionally, non-access charges will also be

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA-MTS/WATS Option (Cont'd)

(A) General Description (Cont'd)

billed for calls from a Trunkside BSA-MTS/WATS Option trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service code 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when Trunkside BSA-MTS/WATS Option switching is combined with Directory Assistance Switching. The combination of Trunkside BSA-MTS/WATS Option Switched Access Service with Directory Assistance Service is provided as set forth in section 9 following. Trunkside BSA-MTS/WATS Option may not be switched, in the terminating direction, to Switched Access Service.

(B) Trunkside BSA-MTS/WATS Option Optional Features and BSEs

(1) Common Switching

- (a) Automatic Number Identification (BSE)
- (b) Service Class Routing (Optional Feature)
- (c) Dial Pulse Address Signaling (Optional Feature)
- (d) Revertive Pulse Address Signaling (Optional Feature)
- (e) Immediate Dial Pulse Address Signaling (Optional Feature)
- (f) Panel Call Indicator Address Signaling (Optional Feature)
- (g) Code Screening for use with WATS Access Line Service (Optional Feature)
- (h) Hunt Group Arrangement for Use with WATS Access Line Service (Optional Feature)
- (i) Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA-MTS/WATS Option (Cont'd)

(B) Trunkside BSA-MTS/WATS Option Optional Features and BSEs  
(Cont'd)

(1) Common Switching (Cont'd)

- (j) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (k) Access Line Service (Optional Feature)

(2) Transport Termination

- (a) Operator Trunks (i.e., coin, non-coin and combined coin and non-coin. Non-coin Trunks are provided at Telephone Company electronic end offices. Coin and combined coin and non-coin are provided only at Telephone Company electronic end offices and other Telephone Company end offices where equipment is available). (C)

(3) Switched Transport

- (a) Supervisory Signaling (as set forth in section 6.1.2(A)(6)(a) preceding)

(4) WATS Access Line Termination

- (a) E&M Supervisory Signaling

(C) Transmission Specifications

Trunkside BSA-MTS/WATS Option is provided with either Type B or Type C Transmission Specifications as follows:

- (1) When routed directly to the end office either Type B or Type C is provided.
- (2) When routed to an access tandem only Type B is provided.

SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA-MTS/WATS Option (Cont'd)

(C) Transmission Specifications (Cont'd)

- (3) Type B or Type C is provided on the transmission path from the access tandem to the end office.

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

Type DB Data Transmission Parameters are provided with Trunkside BSA-MTS/WATS Option for the transmission path between the customer's premises and the end office when directly routed to the end office, and Type DB Data Transmission Parameters are provided for the transmission path between the customer's premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(D) Testing Capabilities

Trunkside BSA-MTS/WATS Option is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as set forth in 13.3.4 following for Trunkside BSA-MTS/WATS Option.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option

(A) General Description

Trunkside BSA-101XXXX Option is available to all customers at Telephone Company designated electronic end office switches, whether routed directly or via Telephone Company designated electronic access tandem switches. Trunkside BSA-101XXXX Option provides trunk side access to end office switches with an associated uniform 101XXXX access code for use in originating and terminating communications.

All Trunkside BSA-101XXXX Options provided to the customer by the Telephone Company will use these uniform access codes.

No access code is required for calls to a customer over a Trunkside BSA-101XXXX Option if the Switched Access Service customer's end user has pre-subscribed its Telephone Exchange Service to that customer, as set forth in section 4.2 preceding.

When no access code is required, the telephone number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1+NXX-XXXX, NPA+NXX-XXXX, 0 or 1+NPA+NXX-XXXX. When the end office is equipped for International Direct Distance Dialing (IDDD) the form is 01+CC+NN or 011+CC+NN.

Trunkside BSA-101XXXX Option switch trunk equipment is provided with

- (a) start start-pulse signaling and
- (b) answer and disconnect supervisory signaling
- (c) or without signaling when out of band signaling is specified.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(A) General Description (Cont'd)

Trunkside BSA-101XXXX Option is provided with multifrequency address signaling or out of band signaling. Up to twelve digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signaling will be provided by the Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

Trunkside BSA-101XXXX Option switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customer Trunkside-101XXXX Option services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 Network Service.

Additionally, non-access charges will also be billed for calls from a Trunk-side BSA-101XXXX Option trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service code 911, or 101XXXX access codes. Calls will be completed to Directory

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(A) General Description (Cont'd)

Assistance (NPA-555-1212 or 555-1212) when Trunkside BSA-101XXXX Option switching is combined with Directory Assistance Switching. The combination of Trunkside BSA-101XXXX Option Switched Access Service with Directory Assistance Service is provided as set forth in Section 9. following. Trunkside BSA-101XXXX Option may not be switched, in the terminating direction, to Switched Access Service Trunkside BSAs.

The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where Trunkside BSA-101XXXX Option Switching is provided. When required by technical limitations, a separate trunk group will be established for each type of Trunkside BSA-101XXXX Option switching arrangement provided. Different types of Trunk-side BSA-101XXXX Option or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

The access code for Trunkside BSA-101XXXX Option switching is a uniform access code of the form 101XXXX. These uniform access codes will be the assigned access numbers of all Trunkside BSA-101XXXX Option access provided to the customer by the Telephone Company. No access code is required for calls to a customer over Trunkside BSA-101XXXX Option Switched Access Service if the end user's telephone exchange service, including Pay Telephone Network Lines, or the customer's Lineside BSA Switched Access Service is arranged for presubscription to that customer, as set forth in 13 following. Where Minimum Divergence Access Service is provided, the 101XXXX access code is not available.

Calls originating from a WAL Service by the end user's dialing Toll Free code+NXX+XXXX, 1+Toll Free+NXX-XXXX, 900+NXX-XXXX or 1+900+NXX-XXXX will be routed to the Switched Access Service of the Toll Free or 900 service provider. Calls originating from a WAL Service by the

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(A) General Description (Cont'd)

end user's dialing unassigned NXXs, local operator assistance (0-), service codes (211, and 911), directory assistance (411) and 101XXXX access codes will not be completed.

When the 101XXXX access code is used, Trunkside BSA-101XXXX Option switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut through access to the customer's premises.

Trunkside BSA-101XXXX Option switching will be arranged to accept calls from telephone exchange service or Lineside BSA locations without the need for dialing 101XXXX uniform access code. Each telephone exchange service line or Lineside BSA may be marked with a presubscription code to identify which 101XXXX code its calls will be directed to for interLATA service. Presubscription codes are applied as set forth in section 13 following.

When a customer has had Trunkside BSA-950 Option access in an end office and subsequently replaces the Trunkside BSA-950 Option access with Trunk-side BSA-101XXXX Option access, at the customer's request and where facilities permit, the Telephone Company, will, for a period of 90 days, direct calls dialed by the customer's end users using the customer's previous Trunkside BSA-950 Option access code to the customer's Trunkside BSA-101XXXX Option access service. The customer must be prepared to handle normally dialed Trunkside BSA-101XXXX Option calls dialed with the Trunkside BSA-950 Option access code which require the customer to receive additional address signaling from the end user. Such calls will be rated as Trunkside BSA-101XXXX Option.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(A) General Description (Cont'd)

At the option of the customer, Operator Transfer Service as specified following is available for use with Trunkside BSA-101XXXX Option Operator Transfer Service is ordered as set forth in 5.2 preceding and is provided to the customer via separate Trunkside BSA-101XXXX Option trunks dedicated to Operator Transfer Service traffic.

Operator Transfer Service is an arrangement in which Telephone Company operators transfer 0 minus end user dialed calls, i.e., the end user dials 0 with no additional digits, to the customer designated by the end user.

The operator transfer function will be performed in the following manner:

- The operator answers the end user 0 minus dialed call.

SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(A) General Description (Cont'd)

- Initially, the Operator will direct the end user to dial user insists that the Operator complete the call, the operator will ask the end user to identify the Operator Services Provider or customer to which they desire to be connected. The operator will then transfer the call to the the interexchange carrier on a direct basis. If the end designated service provider.
- If the end user has no preference, or the identified service provider has not subscribed to Operator Transfer Service, the end user will be asked to select from a list of available service providers.

The list of available Operator Transfer Service customers will be updated monthly. The order in which customers will be read to end users will be initially determined by lottery. For each subsequent monthly update, following the initial order selection, the customer in the first position on the list will be moved to the last position on the list. All other customers on the list will be moved up one position, e.g., 3rd to 2nd, 2nd to 1st, etc. New Operator Transfer Service customers will be placed at the bottom of the list of customers pending the next monthly update. 0 minus calls from Pay Telephone Network Lines will be transferred to the end user designated customer. When the call is coin sent-paid, the customer, in order to accept such calls, will be required to order signalling as specified in TR-TSY-000506 and TR-NPL-00258.

The customer may receive inband, multi-wink, or expanded inband coin control signalling, where available, from end offices served by an Operator Services Access Point. Different signalling types cannot be mixed on a single trunk group.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(A) General Description (Cont'd)

All rates and charges normally applicable to Feature Group D, i.e., nonrecurring, monthly recurring, and usage sensitive, apply to Operator Transfer Service. Additionally, a charge as specified in 6.1.2(B)(3) preceding, and 6.9.4 following, is assessed the customer per 0 minus call transferred.

(B) Trunkside BSA-101XXXX Option Optional Features and BSEs

(1) Common Switching

- (a) Automatic Number Identification (BSE)
- (b) Service Class Routing (Optional Feature)
- (c) International Carrier Option (Optional Feature)
- (d) Code Screening for use with WATS Access Line Service (Optional Feature)
- (e) Hunt Group Arrangement for Use with WATS Access Line Service (Optional Feature)
- (f) Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (g) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (h) Overflow Advance Arrangement for Use with WATS Access Line Service (Optional Feature)
- (i) Calling Party Number (Optional Feature)
- (j) Charge Number (BSE)
- (k) Carrier Selection Parameter (Optional Feature)
- (l) Calling Party Number\*†
- (m) Charge Number\*
- (n) Carrier Selection Parameter\*#
- (o) Access Transport Parameter#

(2) Transport Termination

- (a) Operator Trunk, Full Feature Arrangement

\* Available only on originating FGD

† CPN is not offered where it is not technically feasible.

# Available only at selected Telephone Company Switches

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(B) Trunkside BSA-101XXXX Option Optional Features and BSEs  
(Cont'd)

(3) Switched Transport

- (a) Supervisory Signaling (as set forth in section 6.1.2(A)(6)(a) preceding)
- (b) Out of Band Signaling (as set forth in section 6.1.2(A)(6)(d) preceding)
- (c) Toll Free Data Base Access Service

(4) Line Termination

- (a) Dialed Number Identification Service
- (b) Answer Supervision

(C) Transmission Specifications

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

- (1) When routed directly to the end office either Type B or C is provided.
- (2) When routed to an access tandem or TOPS tandem only Type A is provided.
- (3) Type A is provided on the transmission path from the access of TOPS tandem to the end office.

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

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises and the access of TOPS tandem and between the access or TOPS tandem and the end office. Type DA Data Transmission Parameters are provided with Trunkside BSA-101XXXX Option for the transmission path between the customer's premises and the end office when directly routed to the end office.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(D) Testing Capabilities

Trunkside BSA-101XXXX Option is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) testline, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as set forth in 13.3.4 following for Trunkside BSA-101XXXX Option.

6.3.3 Dedicated Network Access Link (DNAL) BSA

(A) General Description

- (1) The Dedicated Network Access Link (DNAL) BSA provides a connection between the customer designated premises and a Telephone Company switch or central office for the transfer of data from the switch or central office to the customer premises.
- (2) The DNAL is primarily used in conjunction with switched access or central office based services requiring a separate link for transmitting signaling or control information. The switched access service determines the requirement for speed, type, and number of DNALs.
- (3) The DNAL can be used in association with the Common Switching BSEs as set forth following.

(a) Messaging Services Interface (BSE)

This option is provided as set forth in 6.4.1(AH) following.

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SWITCHED ACCESS SERVICE

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(A) General Description (Cont'd)

(3) The DNAL can be used in association with the Common Switching BSEs as set forth following. (Cont'd)

(b) Make Busy Arrangements (BSE)

This option is provided as set forth in 6.4.1(AG) following.

(B) Metallic DNAL

(1) Basic Description

A Metallic DNAL is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic DNALs are provided between a customer designated premises and a Telephone Company switch or central office. Interoffice metallic DNALs will be limited in length to a total of five route miles per channel. (T)

(2) Technical Specifications Packages

<u>Parameter</u>	<u>Package MT-</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(3) Channel Interfaces

Compatible channel interfaces are set forth in 6.1.2(A) preceding.

SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Switched Access Arrangements. They are provided as either Common Switching or Transport Termination options.

The following is a list of Verizon's Open Network Architecture (ONA) Switched Access Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Services User Guide, July 31, 1991, from the product name utilized in this tariff.

<u>GENERIC NAME</u>	<u>VERIZON PRODUCT NAME</u>
Answer Supervision With A Line Side Interface	Answer Supervision With A Line Side Interface
Calling Billing Number Delivery -FG B Protocol -FG D Protocol	Automatic Number Identification
Carrier Selection On Reverse Charge	Toll Free Access Service

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

GENERIC NAME	VERIZON PRODUCT NAME
Make Busy Key	Make Busy Arrangement
Multiline Hunt Group	Hunting Service Arrangement
Multiline Hunt Group	Hunting Service Arrangement Circular
Multiline Hunt Group	Hunting Service Arrangement Preferred
Multiline Hunt Group - Individual Access To Each Port In Hunt Group	Non-Hunt Directory Numbers
Multiline Hunt Group - Uniform Call Distribution Line Hunting	Uniform Call Distribution
Multiline Hunt Group - Uniform Call Distribution With Queuing	
Three-Way Call Transfer	Three-Way Call Transfer

6.4.1 Common Switching Optional Features and BSEs Where Available

(A) Call Denial on Line or Hunt Group (Optional Feature)

This option allows for the screening of terminating calls within the LATA, and for the completion only of calls to 411, 911, Toll Free codes, 555-1212, and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. All other long distance calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices. It is available with Lineside BSA and Feature Group A. (C)

(B) Service Code Denial on Line or Hunt Group (Optional Feature)

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0- and N11 (e.g., 411 and 911). This feature is provided where available in all Telephone Company electronic end offices. It is available with Lineside BSA and Feature Group A. (C)

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(C) Hunt Group Arrangement (Optional Feature)

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Lineside BSA and Feature Group A.

(D) Uniform Call Distribution Arrangement (Optional Feature and BSE)

When an incoming call to the Directory Number (DN) of the multiline hunt group (MLHG) is received, hunting should begin at the start-hunt terminal and proceed as a circular hunt.

When an idle terminal is found, the call should be completed, and immediately (even before another call attempts to terminate) a new circular hunt should begin for an idle terminal. This hunt should begin at the terminal number after the one that the call was just completed. When an idle terminal is found, the hunt should stop and the idle terminal number should be stored as the start-hunt terminal for the next incoming call to the DN of the MLHG. If no idle terminal is found after a complete circular hunt is made, the stored-hunt DN should be the DN of the last completed call.

If an incoming call is not to the DN of the MLHG but to a DN associated with one of the terminals of the MLHG instead, the start-hunt terminal as defined above for Uniform Call Distribution (UCD) should not be used. Instead, the incoming call should be directed to the terminal associated with the called DN directly. If the called DN terminal is busy, a circular hunt should begin at the called DN terminal and continue until an idle terminal is found. If none is found, the incoming call should be given busy treatment. In either case, the next incoming call to the MLHG DN uses a start-hunt number as determined above, which is unaffected by the call to a terminal's direct DN.

Calls made to a UCD MLHG equipped with the queuing feature will complete immediately if there is an idle terminal in the UCD hunt group. However, if all terminals in the UCD hunt group are busy, the call is placed on queue and waits its turn to be served.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(D) Uniform Call Distribution Arrangement (Optional Feature and BSE)  
(Cont'd)

The call that has been on queue the longest will be the first call served when a line becomes available. The customer determines the maximum number of calls that can be placed on queue. If the incoming call cannot be placed on queue, the calling party receives busy tone. It is available with Lineside BSA and Feature Group A.

(E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement (Optional Feature and BSE)

This option provides an arrangement for an individual line within a multiline hunt or uniform call distribution group that provides access to that line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Lineside BSA and Feature Group A.

(F) Automatic Number Identification (ANI) (Optional Feature and BSE)

This option provides the automatic transmission of a seven- or ten-digit number and information digits to the customer's premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with 1) all individual transmission paths in a trunk group routed directly between an end office and a customer's premises or, where technically feasible, with 2) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer's premises.

The seven-digit ANI telephone number is available with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Feature Groups B and C. With these Feature Groups, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from coin telephones and coinless pay telephones using Trunkside BSA-950 Option and Feature Group B, or when an ANI failure has occurred.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(F) Automatic Number Identification (ANI) (Optional Feature and BSE)  
(Cont'd)

The ten-digit ANI telephone number is only available with Trunkside BSA-101XXXX Option and Feature Group D. When out of band signaling is specified, the customer may obtain an ANI equivalent by ordering the charge number optional feature as specified following. The ten-digit ANI telephone number consists of the Numbering Plan Area (NPA) plus the seven-digit ANI telephone number. The ten-digit ANI telephone number will be transmitted on all calls.

With Trunkside BSA-MTS/WATS Option, ANI is provided from end offices at which Telephone Company recording for end user billing is not provided, or where it is not required, as with Toll Free Service. It is not provided from end offices for which the Telephone Company needs to forward ANI to its recording equipment.

The information digits identify: 1) telephone number is the station billing number - no special treatment required, 2) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner, 3) hotel/motel originated call which requires room number identification, 4) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and 5) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party.

These ANI information digits are available with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups B and D.

Additional ANI information digits are available with Trunkside BSA-101XXXX Option and Feature Group D only. They include:

- 1) InterLATA restricted - telephone number is identified line
- 2) InterLATA restricted - hotel/motel line
- 3) InterLATA restricted - coinless, hospital, Network Controlled Inmate Lines, etc.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

- (F) Automatic Number Identification (ANI) (Optional Feature and BSE)  
(Cont'd)

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

- (G) Up to 7-Digit Outpulsing of Access Digits to Customer (Optional Feature)

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-10XX) to the customer's premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer's premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Trunkside BSA-950 Option and Feature Group B.

- (H) Revertive Pulse Address Signaling (Optional Feature)

This option provides for a dc pulsing arrangement that transmits intelligence in the following manner:

- (1) The equipment at the originating location presets itself to represent the number of pulses required and to count the pulses received from the terminating location.
- (2) The equipment at the terminating location transmits a series of pulses by the momentary grounding of its battery supply until the originating location breaks the dc path to indicate that the required number of pulses has been counted.

This option is available with Trunkside BSA-MTS/WATS Option.

- (I) Delay Dial Start-Pulsing Signaling (Optional Feature)

This option provides a method of indicating to the near end trunk circuit readiness to accept address signaling information by the far end trunk circuit. Delay dial is often referred to as an off-hook, on-hook signaling sequence. The delay dial signal is the

SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(I) Delay Dial Start-Pulsing Signaling (Optional Feature) (Cont'd)

off-hook interval and the start-pulsing signal is the on-hook interval. With integrity check, the calling office will not outpulse until a delay dial (off-hook) signal followed by a start-pulsing (on-hook) signal has been identified at the calling office. This option is available with Trunkside BSA-MTS Option.

(J) Immediate Dial Pulse Address Signaling (Optional Feature)

This option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a start-pulsing signal from the customer. It is available with Trunkside BSA-MTS Option.

(K) Dial Pulse Address Signaling (Optional Feature)

This trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer's premises (in either direction) by means of direct current pulses. It is available with Trunk-side BSA-MTS Option.

(L) Panel Call Indicator Address Signaling (Optional Feature)

This option provides a dc pulsing arrangement in which each digit is transmitted as a series of four marginal and polarized impulses. It is available with Trunkside BSA-MTS/WATS Option.

(M) Service Class Routing (Optional Feature)

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., coin or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or service access code (e.g., Toll Free or 900). It is provided in suitably equipped end office or access tandem switches and is available with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Group D.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(N) Alternate Traffic Routing (Optional Feature)

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches and is available with Feature Group D.

(O) Trunk Access Limitation (Optional Feature)

This option provides for the routing of originating 900 Service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices. It is available with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, and Feature Group D. (C)

(P) Call Gapping Arrangement (Optional Feature)

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 900 Service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which are denied access by this feature, i.e., the choked calls, would be routed to a no-circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Trunkside BSA-101XXXX Option and Feature Group D.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(Q) International Carrier Option (Optional Feature)

This option allows for Trunkside BSA-101XXXX Option and Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through presubscription or 101XXXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing. It is available with Trunkside BSA-101XXXX Option and Feature Group D.

(R) Overflow Advance Arrangement for Use with WATS Access Lines (Optional Feature)

This option, which is provided in association with two or more WATS Access Line Service groups, provides for the automatic overflow of terminating calls to a WATS Access Line Service group, when that group has exceeded its call capacity, to another WATS Access Line Service group with a band designation equal to or greater than that of the overflowing WATS Access Line Service group. This arrangement does not provide for call overflow from a group with a higher numeric designation to one with a lower one.

(S) Hunt Group Arrangement for Use with WATS Access Line Service (Optional Feature)

This option provides the ability to sequentially access one of two or more WATS Access Line Services in the terminating direction when the hunting number of the WATS Access Line Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs (Cont'd)

- (T) Hunt Group Arrangement for Use with WATS Access Line Service  
(Optional Feature) (Cont'd)

Access Line Service is provided. It is available with Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups A, B and D.

- (U) Uniform Call Distribution Arrangement for Use with WATS Access Lines (Optional Feature)

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Access Lines in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Group D.

- (V) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines (Optional Feature)

This option provides an arrangement for an individual WATS Access Line within a multi-line hunt or uniform call distribution group that provides access to that WATS Access Line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Group D.

- (AB) Answer Supervision With a Line Side Interface (BSE)

This option provides an answer supervisory signal to the customer premises for terminating calls to indicate the called location has returned an answer supervisory signal to the Telephone Company end office where the customer's Lineside BSA open end (dial tone end office) is located. This option is only available from appropriately equipped Telephone Company electronic end office switches. It is available with Lineside BSA only.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs (Cont'd)

(AC) Hunting Service Arrangements (BSE)

This feature offers the ability to sequentially access terminals in a hunt group, beginning with the start-hunt terminal until an idle terminal is found or the last terminal number is reached, when the access number of the line group is dialed. If all terminals are busy, a busy tone will be returned to the calling party. It is available with Lineside BSA.

(AD) Hunting Service Arrangements: Preferred (BSE)

This option allows a separate hunting list to be associated with each terminal in a hunt group. When a call is made directly to a busy terminal with a MLHG equipped with preferential hunting, a linear hunt is performed over the special ordered list of preferential hunt terminals. The call will terminate at the first idle terminal in the preferential hunt list. If all of the terminals in the preferential hunt are busy, then a secondary hunt should be conducted over all of the terminals. The secondary hunt will be in the regular hunt sequence, not the preferential list. This feature is not available with the Uniform Call Distribution and Non-Hunt Numbers features. This feature is available with Lineside BSA.

(AE) Hunting Service Arrangements: Circular (BSE)

This feature offers the ability to sequentially access terminals in a hunt group, with the hunt sequence starting over again at the start-hunt terminal if all terminals are busy. If all terminals are busy in the second pass, a busy tone will be returned to the calling party. This feature is available with Lineside BSA.

(AF) Three-Way Call Transfer (BSE)

This option gives the customer the capability of including another end user on an already established call. After establishing the call, the customer may drop his connection without disconnecting the two end users. While the two end users are connected, usage continues to be recorded and will be charged to the customer. This option is available from appropriately equipped electronic offices. In some switches the customer and originating end user must be served out of the same central office in order for the customer to drop off of the line and keep the two end users connected. This feature is available with Lineside BSA.

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SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs (Cont'd)

(AG) Make Busy Arrangements (BSE)

This option allows a customer to busy out a group of lines and to reroute incoming traffic from one group of lines to another group of associated lines, if the customer has more than one group of lines.

This option provides the capability to place one or more lines of a Lineside BSA with multiline hunt group arrangement in a busy or overflow condition. Once the capability is activated, subsequent calls to the lines placed in the busy or overflow condition may be directed to a central office tone, central office announcement or when a remote call forwarding feature is ordered, to an alternate service. The capability is activated by a customer provided key at the customer's premises. The activation signal is transmitted to the Telephone Company central office with the use of a Special Access Metallic or Voice Grade Dedicated Network Access Link (DNAL) as specified in Section 6.3.3 preceding. The option is available with Lineside BSA.

(AH) Messaging Services Interface (BSE)

This option provides for the call status information of a call terminating on a Lineside BSA hunting arrangement. This option provides the calling number, called number, the identification of the called multiline hunt group assigned to the customer's end user and the call reason. In addition, the option provides the ability to activate or deactivate a message waiting indicator. The message waiting indicator, or interrupted dial tone, may be activated as long as the service where the message waiting indicator is to be activated is equipped with the message waiting feature. The call status information is transmitted to the customer's premises, and the signal to activate or deactivate the message waiting indicator is transmitted from the customer's message desk terminal equipment. The customer shall provide the appropriate customer-premise equipment (CPE) to store, display or print out the transmitted call status information and the equipment to initiate the signal to activate or deactivate the message waiting indicator. This option is only available from appropriately equipped Telephone Company electronic end office switches. The customer shall obtain a Dedicated Network Access Link (DNAL) as set forth in Section 6.3.3 preceding to each and every Telephone Company Central office switch where the capability is desired. The capabilities are available with Lineside BSA with multiline hunt group arrangement.

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6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs (Cont'd)

(AI) Calling Party Number (CPN)

This option provides for the automatic transmission of the calling party's ten-digit telephone number to the customer's premises for calls originating in the LATA. The ten-digit telephone number consists of the NPA plus the seven-digit telephone number, which may or may not be the same as the calling station's charge number. This feature is available only with originating Feature Group D when out-of-band signaling is specified.

The Telephone Company will transmit a "privacy indicator" as part of the CPN information in those jurisdictions where end users may elect that their CPN information not be passed to the called party and where an end user has taken the actions necessary to ensure that the CPN is so blocked.

(AJ) Charge Number (CN) (Optional Feature and BSE)

This option provides for the automatic transmission of the ten-digit billing number of the calling station number and originating line information. This feature is available only with originating Trunkside BSA-01XXXX Option and Feature Group D when out-of-band signaling is specified.

(AK) Carrier Selection Parameter (CSP) (Optional Feature)

This option provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from a pre-subscribed end user of that customer. This feature is available only with originating Trunkside BSA-101XXXX Option and Feature Group D when out-of-band signaling is specified.

(AL) Access Transport Parameter (ATP) (Optional Feature)

This option provides for the transmission of CPE compatibility information from the originating switch to the customer's premises and, for terminating access, from the customer's premises to the terminating switch. All of the information is supplied by the third party. This feature is available only with originating Trunkside BSA-101XXXX Option and Feature Group D when out-of-band signaling is specified.

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6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features

(A) Rotary Dial Station Signaling (Optional Feature)

This option provides for the transmission of called party address signaling from rotary dial stations to the customer's premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Trunkside BSA-950 Option and Feature Group B, only on a directly trunked basis.

(B) Operator Trunk - Coin, Noncoin, or Combined Coin and Noncoin

This option may be ordered to provide coin, noncoin, or combined coin and noncoin operation. It is available with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Group D and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

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6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features (Cont'd)

(B) Operator Trunk - Coin, Noncoin, or Combined Coin and Noncoin  
(Cont'd)

Coin:

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating coin calls requiring operator assistance to the customer's premises. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards.

Noncoin:

This arrangement provides for the routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating noncoin calls requiring operator assistance to the customer's premises. Because operator assisted noncoin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance noncoin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped, with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards. When so equipped, the ANI feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for Network Controlled Non-Coin Lines, dormitory or Network Controlled Inmate Line stations, or other screening arrangements agreed to between the customer and the Telephone Company.

Combined Coin and Noncoin:

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating operator assisted coin and noncoin calls requiring operator assistance to the customer's premises. Because operator assisted coin and noncoin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

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6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features (Cont'd)

(B) Operator Trunk - Coin, Noncoin, or Combined Coin and Noncoin  
(Cont'd)

Combined Coin and Noncoin: (Cont'd)

This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's operator services systems, rather than in the customer's manual cord boards. When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for Network Controlled Non-Coin Line telephones, dormitory or Network Controlled Inmate Line stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature (Optional Feature)

This option provides the initial coin return control function to the customer's operator. It is available with Trunkside BSA-101XXXX Option and Feature Group D and is provided as a trunk type for Transport Termination.

This option is not available with out of band signaling.

6.4.3 Switched Transport Optional Features

(A) Toll Free Data Base Access Service

Toll Free Data Base Access Service is an originating only trunk side service. When a Toll Free Code+NXX+XXXX call is originated by an end user, the Telephone Company will perform customer identification based on screening of the full ten-digits of the Toll Free number to determine the customer location to which the call is to be routed.

Customers have the option of specifying an area of service from which to receive calls. A specific area of service can be a LATA, state, region, USA, or USA/Canada/Caribbean.

Toll Free Data Base Access Service calls may be delivered to the customer directly from an end office only when the end office is equipped to query the Toll Free Data Base to perform ten-digit customer identification. When the end office does not have Toll Free Data Base query functionality, the query is delivered to the customer from the access tandem (all access tandems have Toll Free Data Base query functionality).

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6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(A) Toll Free Data Base Access Service (Cont'd)

Feature Group D rates and charges apply to Toll Free Data Base Access Service calls. In addition to Feature Group D usage charges, a basic query charge as specified in 6.1.2(A)(7)(a) preceding and 6.9.1 following applies to each Toll Free Data Base Access Service call delivered to the customer. A basic query charge consists of customer identification [i.e., Carrier Identification Number (CIC)], delivery of the dialed Toll Free ten-digit number, ANI, and the allowable area of service, designated by the customer, from which Toll Free calls can be received.

Vertical Feature Package (VFP)

This feature package, available only with Toll Free Data Base Access Service, provides feature functionality in addition to the basic query. The feature package may include various destination options such as converting a Toll Free telephone number to a Local Exchange Service telephone number, carrier selection, time of day routing, day of week routing, specific date routing, geographic routing, routing based on percent of allocation, and emergency routing profiles.

Transmission Specifications

Toll Free Data Base Access Service is provided with either Type A, Type B or Type C Transmission Specifications as follows:

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

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

For Toll Free Data Base Access Service traffic originating from end offices with Data Base query functionality, all normal Feature Group D parameters apply.

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6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(A) Toll Free Data Base Access Service (Cont'd)

Transmission Specifications (Cont'd)

For Toll Free Data Base Access Service traffic originating from all other end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customer's premises.

(B) Alternate Serving Wire Center

- (1) Alternate Serving Wire Center (ASWC) is an optional feature which provides a transmission path for DS1 or DS3 Entrance Facilities between the customer's designated premises and a serving wire center separate from the normal serving wire center.
- (2) The Telephone Company will designate the serving wire center to be used as the alternate. The ASWC feature is available where contiguous wire centers with adjacent fiber feeder routes exist. Where facilities are not available, Special Construction rates and regulations may apply as set forth in the appropriate Special Construction tariff. Where service is available, provisioning is based on a Negotiated Interval as described in 5.2.1(B) preceding.
- (3) The rate for Alternate Serving Wire Center, as specified in 6.9.1 following, applies per point of termination, and is in addition to the Entrance Facilities and Direct Trunked Transport Charges for each DS1 or DS3 service provided over the alternate path. Direct Trunked Transport for the alternately routed service is based on mileage measured from or to the alternate serving wire center.

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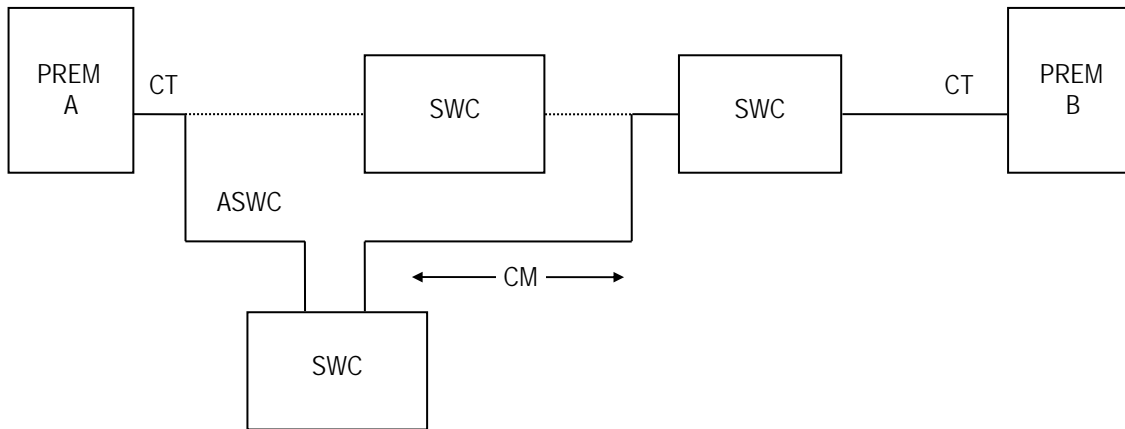
SWITCHED ACCESS SERVICE

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(B) Alternate Serving Wire Center (Cont'd)

Example: Rate application for a High Capacity service connecting two customer premises via ASWC.



..... Normal Transmission Path  
———— Alternate Transmission Path

Rate Elements

2 Channel Terms (CT)  
Channel Mileage (CM)  
1 ASWC

Applicable Charges

Monthly and nonrecurring  
Monthly  
Monthly

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6.5 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Switched Access Service, the Interface Group and whether the service is directly routed or via an access tandem. In addition, the WATS Access Line is provided with standard transmission specifications for two-wire and four-wire. The available transmission specifications are set forth in 6.5.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path and WATS Access Line. The Telephone Company will, upon notification by the customer that the data parameters set forth in 6.5.2(A), 6.5.2(B) or 6.5.2(C) are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

In addition, the WATS Access Line may be optionally provided with Improved Two-wire Transmission Specifications as forth in 6.5.3 following.

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.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NPL-000334 and Associated Revision 1. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

Transmission specifications for out of band signaling connection are as specified. Transmission specifications for 64 Clear Channel Capability when provisioned with Trunkside BSA-101XXXX Option or FGD with out of band signaling are as specified.

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6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Services and the two Standard Transmission Specifications for WATS Access Lines. The specific applications in terms of the Switched Access Services and Interface Groups with which the BSA and Feature Group Standard Transmission Specifications are provided are set forth in 6.2.1(C), 6.2.2(C) and 6.2.3(C) preceding.

(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  $\pm 2.0$  dB

(2) Attenuation Distortion

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

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnCO
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 dBm0 holding tone, is less than or equal to 45 dBrnCO.

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6.5 Transmission Specifications (Cont'd)

6.5.1 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 an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
Direct	N/A	N/A
Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire Point of Termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(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  $\pm$  2.5 dB.

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6.5 Transmission Specifications (Cont'd)

6.5.1 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:

Route Miles	C-Message Noise*	
	Type B1	Type B2
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

(4) C-Notch Noise

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

(5) Echo Control

Echo Control, identified as Impedance Balance for Lineside BSA, Trunkside BSA-950 Option and FGA and FGB and Equal Level Echo Path Loss for Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Service, type of termination, and type of transmission path. They are greater than or equal to the following:

\* For Lineside BSA, Trunkside BSA-101XXXX Option and Feature Group D, only Type B2 will be provided.  
For Lineside BSA, Trunkside BSA-950 Option and Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference PUB 62500.

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6.5 Transmission Specifications (Cont'd)

6.5.1 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 4-wire trunk	21 dB	14 dB
Terminated in 2-wire trunk	16 dB	11 dB
POT to End Office		
Direct	16 dB	11 dB
Via Access Tandem		
For Trunkside BSA-950 Option and FGB access For Trunkside BSA-MTS/WATS Option (Effective 4-wire trans- mission path at end office)	8 dB	4 dB
For Trunkside BSA-MTS/WATS Option (Effective 2-wire trans- mission path at end office)	16 dB	11 dB
For Trunkside BSA-MTS/WATS Option (Effective 2-wire trans- mission path at end office)	13 dB	6 dB

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SWITCHED ACCESS SERVICE

6.5 Transmission Specifications (Cont'd)

6.5.1 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 ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	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  $\pm$  3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise*	
	Type C1	Type C2
less than 50	32 dBrbCO	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

\* For Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Group D, only Type C2 will be provided. For Lineside BSA, Trunkside BSA-950 Option and Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-00334 and Associated Revision 1.

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SWITCHED ACCESS SERVICE

6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications (Cont'd)

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

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
Direct	13 dB	6 dB
Via Access Tandem (for FGB only)	8 dB	4 dB

(D) WATS Access Line Standard Transmission Specifications

(1) Standard Two-Wire Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm 4.0$  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.

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6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications (Cont'd)

(D) WATS Access Line Standard Transmission Specifications (Cont'd)

(1) Standard Two-Wire 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 or equal to:

<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

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

(2) Standard Four-Wire 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 the loss at 1004 Hz is -1.0 dB to +4.5 dB.

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6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications (Cont'd)

(D) WATS Access Line Standard Transmission Specifications (Cont'd)

(2) Standard Four-Wire 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 or equal to:

<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

6.5.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Services. The specific applications in terms of the BSAs and Feature Groups with which they are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C) and 6.2.4 preceding. In addition, the WATS Access Line is provided with Data Transmission Parameters. Following are descriptions of each:

(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.

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6.5 Transmission Specifications (Cont'd)

6.5.2 Data Transmission Parameters (Cont'd)

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

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

<u>604 to 2804 Hz</u>	
less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds
<u>1004 to 2404 Hz</u>	
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

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

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

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6.5 Transmission Specifications (Cont'd)

6.5.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

<u>604 to 2804 Hz</u>	
less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds
<u>1004 to 2404 Hz</u>	
less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

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

(C) WATS Access Line Data Transmission Parameters

(1) Signal to C-Notched Noise Ratio

The maximum Signal to C-Notched Noise Ratio is 30 dB.

SWITCHED ACCESS SERVICE

6.5 Transmission Specifications (Cont'd)

6.5.2 Data Transmission Parameters (Cont'd)

(C) WATS Access Line Data Transmission Parameters (Cont'd)

(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

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 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 to 300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

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

6.5.3 WATS Access Line

(A) Improved Two-Wire Voice Transmission Specifications

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm 4.0$  dB

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6.5 Transmission Specifications (Cont'd)

6.5.3 WATS Access Line (Cont'd)

(A) Improved Two-Wire Voice Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -2.0 dB to +6.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

6.6 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2 preceding, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

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6.6 Obligations of the Telephone Company (Cont'd)

6.6.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(3) preceding.

6.6.2 Design and Traffic Routing of Switched Access Service

For Switched Access Services, when ordered in busy hour minutes of capacity, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating-only, terminating-only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment and the Telephone Company traffic routing plans. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the customer in determining 1) whether the service is to be routed directly to an end office or through an access tandem switch and 2) the directionality of the service.

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6.6 Obligations of the Telephone Company (Cont'd)

6.6.2 Design and Traffic Routing of Switched Access Service (Cont'd)

For Switched Access Services when ordered in trunks, the line or trunk directionality and traffic routing of the Switched Access Service between the customer's premises and the entry switch are determined by the customer's order for service. Additionally, for Feature Group B the customer may order the optional feature Customer Specification of Local Transport Termination.

6.6.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and noncompletion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an Individual Case Basis.

6.6.4 Trunk Group Measurements Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

6.6.5 Determination of Number of Transmission Paths

For Switched Access Services ordered on a per-line or per-trunk basis respectively, the customer specifies the number of transmission paths in the order for service. The following applies to switched access voice transmission paths, and does not apply to signaling connections provided with CCSAS. The number of transmission paths for out of band signaling connections will be determined jointly by the Telephone Company and the customer. The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Services ordered in busy hour minutes of capacity. A transmission path is a communications path within the frequency band-width of approximately 300 Hz to 3000 Hz or a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high frequency analog facility or a high speed digital facility between a customer's premises and a Telephone Company location. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1(F) preceding) for the end

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6.6 Obligations of the Telephone Company (Cont'd)

6.6.5 Determination of Number of Transmission Paths (Cont'd)

offices for each Switched Access Service ordered from a customer's premises. The total busy hour minutes of capacity by type for the end office will be converted to transmission paths using standard Telephone Company traffic engineering methods. The number of transmission paths provided shall be the number required based on 1) the use of access tandem switches and end office switches, 2) the use of end office switches only, or 3) the use of tandem switches only.

6.6.6 Determination of Number of End Office Transport Terminations

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

6.6.7 Design Blocking Probability

The Telephone Company will design the facilities for the provision of tandem circuits used for common transport between the access tandem and the end office.

In addition, the Telephone Company will perform routine measurement functions in accordance with Telephone Company blocking objectives to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional trunks be ordered by the customer when required to reduce the measured blocking to the objective.

(A) For FGA and FGB (Lineside BSA and Trunkside BSA-950 Option) no blocking criteria apply.

(B) The blocking objective for FGB on D and FGD (Trunkside BSA-MTS/WATS Option) will be no greater than one percent (.01) between the point of termination at the customer's premises and the first point of switching in the Telephone Company's network when traffic is directly routed without an alternate route. For this directly routed traffic, the objective is solely a function of the customer's network design.

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6.6 Obligations of the Telephone Company (Cont'd)

6.6.7 Design Blocking Probability (Cont'd)

(C) The blocking objective for FGD (Trunkside BSA-10XXX/101XXXX) will be no greater than one percent (.01) between the point of termination at the customer's premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. For traffic routed via an access tandem, the objective is a combination of the Telephone Company's common transport design capacity and the customer's network design capacity.

(D) Standard traffic engineering methods as set forth in Technical Reference PUB SR EDP, Trunk Traffic Engineering Concepts and Applications, will be used by the Telephone Company to determine the number of trunks required to achieve the blocking objectives in all cases.

The design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the thresholds listed in the following tables.

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6.6 Obligations of the Telephone Company (Cont'd)

6.6.7 Design Blocking Probability (Cont'd)

Number of Transmission Paths, <u>per trunk group</u>	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements, <u>per trunk group</u>			
	<u>15-20 Measure- ments</u>	<u>11-14 Measure- ments</u>	<u>7-10 Measure- ments</u>	<u>3-6 Measure- ments</u>
	2.070	.080	.090	.040
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

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6.6 Obligations of the Telephone Company (Cont'd)

6.6.7 Design Blocking Probability (Cont'd)

(D) (Cont'd)

For transmission paths carrying first routed traffic between an end office and customer's premises via an access tandem, the measured blocking thresholds are as follows.

Number of Transmission Paths, <u>per trunk group</u>	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements, <u>per trunk group</u>			
	15-20	11-14	7-10	3-6
	<u>Measure-</u> <u>ments</u>	<u>Measure-</u> <u>ments</u>	<u>Measure-</u> <u>ments</u>	<u>Measure-</u> <u>ments</u>
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

6.6.8 Operator Transfer Service

Upon customer request, the Telephone Company will provide a list identifying Operator Services access points for use with Operator Transfer Service as specified in 6.2.3(A)(9) preceding. Additionally, the Telephone Company will define the service areas of designated Operator Services access points and will identify the signalling capability of end offices in the service area.

6.7 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2 preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.7.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

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6.7 Obligations of the Customer (Cont'd)

6.7.1 Report Requirements (Cont'd)

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.10 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the intrastate charges is set forth in 2.3.11 preceding.

(B) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gapping arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

6.7.2 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook answer and disconnect supervision. For Toll Free Data Base Access Service which originates from end offices with the customer identification function, and for Trunkside BSA-950 Option and Feature Group B, the customer shall provide answer off-hook signal upon completion of the outputted signaling sequence at his point of termination.

6.7.3 Trunk Group Measurements Reports

With the agreement of the customer, trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

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6.7 Obligations of the Customer (Cont'd)

6.7.4 Design of Switched Access Services

When a customer orders Trunkside BSA-101XXXX Option and Feature Group D or Toll Free Access Service Switched Access Service on a per trunk basis, it is the customer's responsibility to assure that sufficient access services have been ordered to handle its traffic or the blocking charge as specified in 6.8.7 will be applied.

6.8 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.8.1 Description and Application of Rates and Charges

There are three types of rates and charges that apply to Switched Access Service. These are monthly recurring rates, usage rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth following.

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided. For billing purposes, each month is considered to have 30 days.

(B) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per access minute or per call basis. Access minute charges are accumulated over a monthly period.

(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are: installation of service and service rearrangements.

(1) Installation of Service

Certain nonrecurring charges are applicable to the installation of access service consist of a "first" and "additional" charge. For each facility, line or trunk ordered, the first charge applies to the first facility, line, or trunk specified on the order, with the additional charge applied to each additional facility, line or trunk, specified on the same order between same location.

Nonrecurring charges apply when Common Channel Signaling Access Service is installed for use with Trunkside BSA-101XXXX Option or Feature Group D as specified in Section 6.9 following.

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6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements

All changes to existing services other than changes involving administrative activities only will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and charged for as set forth in 6.8.5 following.

Additionally, the charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves an actual physical change to the service, including the addition of a FGD Carrier Identification Code (CIC) to an existing network and other translation-only type work.

- When the physical change involves the addition of FGD CIC(s) to an existing network, a service rearrangement charge will apply per CIC, per sub-tending end office, per access tandem.
- When the physical change involves translation-only type work, a service rearrangement charge will apply at the level of work being performed (such as per trunk, per trunk group, per end office, or per access tandem).

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

Change of customer name,  
Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,  
Change in billing data (name, address, or contact name or telephone number),  
Change of agency authorization,  
Change of customer circuit identification,  
Change of billing account number,  
Change of customer test line number,  
Change of customer or customer's end user contact name or telephone number and  
Change of jurisdiction.

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6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements (Cont'd)

All other service rearrangements will be charged for as follows:

- For the Dedicated Network Access Link BSA, the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element first nonrecurring change charge will apply. Only one such charge will apply per service per change.
- If the change involves the addition of an optional feature of BSE which has a separate nonrecurring charge, the recurring charge will apply.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements (Cont'd)

A charge as specified in 6.8 following will apply on each transmission path reconfigured from:

- SS7 signaling to MF signaling
- 64CCC to SS7 signaling
- 64CCC to MF signaling

When out of band signaling or 64CCC is ordered, the customer may add Calling Party Number (CPN), Charge Number (CN), Carrier Selection Parameter (CSP), and Access Transport Parameter (ATP) at no additional charge if these features are specified at the time out of band signaling or 64CCC is ordered for existing switched access trunks.

Rearrangement charges apply on a per-termination basis for the following service rearrangements:

- (a) rearranging an existing subtending service from one port to another in the same multiplexing arrangement;
- (b) rearranging an existing subtending service from one multiplexing arrangement to another like multiplexing arrangement in the same wire center; and
- (c) rearranging an existing service into a high capacity service multiplexing arrangement in the same wire center.

When services are rearranged as described above, the "Additional" rate element for the Rearrangement Charges may apply to all such rearranged services beyond the first without regard to their end-point locations, so long as they are all of the same service type, have the same date due, and are all being rearranged to the same multiplexer as the service which is incurring the associated "First" Rearrangement Charge.

(3) Connection Charge

The Switched Access Connection Charge recovers the costs of connecting the trunks/line to the switch. These charges are in addition to any facility charges and are to be applied on a per line/per trunk basis.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(4) Service Order Charge

The Service Order Charge applies to every order issued and is in addition to all other applicable non-recurring charges.

- (5) In addition, the facility nonrecurring charge will not apply for changing facility capacity or facility interface (i.e., changes from or to Voice Grade, DS1 or DS3 facilities). No facility nonrecurring charge will apply for adding new facilities as well as rearranging trunks on existing facilities in order to increase utilization or fill.

(D) Switched Transport Rate Elements

(1) Entrance Facility

The Entrance Facility monthly rate provides for the communication path between a customer's premises and the SWC of that premises and is assessed based on the capacity of the facilities provided (e.g., Voice Grade, DS1, or DS3). When Lineside Switched Access service is ordered, the Voice Grade Entrance Facility rate is assessed for each Lineside service requested unless the customer requests an Entrance Facility of higher capacity. The Entrance Facility rate is assessed when the customer premises and the SWC are in the same building. The Entrance Facility rate is in addition to the rates assessed for Direct Trunked Transport and Tandem Switched Transport.

(2) Direct Trunked Transport

The Direct Trunked Transport monthly rate provided for the transmission facilities between the SWC of the customer's facilities to the end office based on the capacity of the facility requested, i.e., Voice Grade, DS1, or DS3. When Lineside Switched Access service is ordered, the Voice Grade Direct Trunked Transport rate is assessed for each Lineside service requested unless the customer requests a Direct Trunked Transport facility of higher capacity. There are two rates that apply, a fixed rate and a rate per mile. The Direct Trunked Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 6.8.11 following.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(D) Switched Transport Rate Elements (Cont'd)

(3) Tandem Transport Charge

The Tandem Transport Charge is assessed on a per-minute-of-use basis. There are two rates that apply, a fixed rate and a rate per mile/per minute. The Tandem Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 6.8.11 following.

(4) Tandem Switching

The Tandem Switching rate is assessed on a per-minute-of-use basis and is applicable to all Switched Access minutes of use utilizing an access tandem via Tandem Switched Trunk. The Tandem Switching rate is in addition to the Tandem Transmission rate and the rates associated with the Entrance Facility.

The Dedicated Tandem Trunk Port is a monthly rate assessed per activated trunk for every dedicated trunk terminating on the serving wire center side of the access tandem. Rates and charges are set forth in Section 6.9 following.

(N)  
|  
(N)

(D)

(5) Where Switched Access Service is used to carry traffic originated from a TRS Center, Switched Transport rates apply. Local Switching rates do not apply.

(T)

(6) The following rate elements apply for FGA provided with a voice grade interface

(T)

Recurring Rate Elements

- Entrance Facility - 2 wire or 4 wire
- Direct Trunked Transport, fixed and per mile, measured from the SWC to the DTO.

Terminating Usage Rate Elements

- Tandem fixed MOU and per-mile MOU rates apply from the DTO to the End Office where the call terminates.
- Local Switching MOU.
- The Interconnection rate applies also to all Local Switching MOU.

Originating Usage Rate Elements

- Local Switching MOU
- The IC rate applies to all Local Switching MOU.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(D) Switched Transport Rate Elements (Cont'd)

- (7) The following rate elements apply for FGA provided with a digital interface: (T)

Recurring Rate Elements

- Entrance Facility - DS1
- Direct-Trunked Transport, fixed and per mile, measured from the SWC to the DTO.
- Multiplexer

Originating and Terminating Usage

- Local Switching MOU
- The Interconnection rate applies also to all Local Switching MOUs

If the facility terminates at a remote switch, tandem-fixed and per-mile-per MOU may also apply.

- (8) Multiplexing (T)

No multiplexing charge will apply if an individual circuit carrying trunks is at a DS1 level (Entrance Facilities and Direct Trunked Transport) and terminates at a specific switch.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

(D) Switched Transport Rate Elements (Cont'd)

(9) End Office

The End Office rate category provides the local end office switching and end user termination functions necessary to complete the transmission if Switched Access communications to and from the end users served by the local end office.

a. Local Switching:

The Local Switching rate element provides for the use of end office switching equipment and is applied, per minute of use.

b. Shared End Office Trunk Port:

Provides for the termination of Tandem Switched Transport and/or FGA access minutes to an end office. Access minutes for all Switched Access Service subject to shared End Office Trunk Port will be multiplied by the per minute of use rate.

c. Dedicated End Office Trunk Port:

Provides for the termination of Direct Transport trunks at the end office and is applied monthly, per activated trunk.

Dedicated End Office Port is billed as originating and terminating based on a Percent Originating Usage (POU) factor of 50%. (N)

Originating Calculation =  $PIU \times \text{Originating Rate} \times \text{Quantity} \times POU$

Terminating Calculation =  $PIU \times \text{Terminating Rate} \times \text{Quantity} \times (100-POU)$

The Access Tandem Trunk Port is billed as a single rate element that does not distinguish between originating and terminating usage. (N)

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.1 Description and Application of Rates and Charges (Cont'd)

6.8.2 Minimum Periods

The minimum service periods for Switched Transport entrance facilities and direct-trunked transport are as follows:

DS1: 2 months

DS3: 12 months

All other Switched Access Service is provided for a minimum period of one month.

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

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.4 Change of Feature Group or BSA Type

Changes from one type of Feature Group to another type of Feature Group or from type of BSA to another type of BSA will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with one exception. When a customer upgrades a Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Feature Group A or B service to a Trunkside BSA-101XXXX Option and Feature Group D service, the nonrecurring charges will not apply if the following conditions are met:

- (A) The same customer premises must be maintained on the order for the FGB trunks, unless mutually agreed upon by the Telephone Company and the customer when appropriate Telephone Company central office switching equipment and other facilities exists, and
- (B) The orders for the disconnect of the FGA or FGB service and the start of FGD service are placed with the Telephone Company at the same time, and the customer requests the FGA or FGB service be disconnected no more than 90 days after the start of FGD services.
- (C) Subject to the availability of appropriate Telephone Company central office switching equipment and other facilities, customers may upgrade from one-way FGD trunks to two-way FGD trunks and not be subject to charge as long as the number of two-way FGD trunks does not exceed the number of one-way FGB trunks disconnected, i.e., a one-for-one substitution of one-way trunks for two-way trunks. The customer must retain the same technical interface specifications unless otherwise mutually agreed upon by the Telephone Company and the customer, when appropriate Telephone Company central office switching equipment and other facilities are available. Conversion of one-way FGB trunks to two-way FGD trunks will be scheduled on a project basis by the Telephone Company, in cooperation with the customer.
- (D) Subject to the availability of appropriate Telephone Company central office switching equipment and facilities, customers may upgrade from Trunkside BSA-950 Option or FGB trunks with MF signaling to Trunkside BSA-101XXXX Option or FGD trunks with SS7 signaling or 64CCC and not be subject to charge as long as the customer requests SS7 signaling or 64CCC on their new order for Trunkside BSA-101XXXX Option or FGD trunks. Out-of-band signaling connections provided under Common Channel Signaling Access Service must be established as specified preceding. The number of Trunkside BSA-101XXXX Option or FGD trunks with signaling or SS7 64CCC can not exceed the number of Trunkside BSA-950 Option or FGD trunks with MF signaling that are disconnected, i.e., a one-for-one substitution of Trunkside BSA-101XXXX Option or FGD trunks with SS7 signaling or 64CCC for Trunkside BSA-950 Option or FGD Trunks with MF signaling.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.4 Change of Feature Group or BSA Type (Cont'd)

(D) (Cont'd)

The Telephone Company reserves the right to determine if Trunkside BSA-950 Option or FGB may be upgraded to Trunkside BSA-101XXXX Option or FGD and converted to out of band signaling at the same time. If necessary, the Telephone Company will treat such requests as two separate projects and charges will be waived as specified above and in section 6.1.2 preceding.

When a customer upgrades a Feature Group A or B service to Feature Group D service, minimum period obligations will not change, i.e., the time elapsed in the existing minimum period obligations will be credited to the minimum period obligations for Feature Group D service. For all other changes from one type of Feature Group to another, new minimum period obligations will be established.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.4 Change of Feature Group or BSA Type (Cont'd)

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.4 Change of Feature Group or BSA Type (Cont'd)

6.8.5 Moves

A move involves a change in the physical location of one of the following:

The point of termination at the customer premises  
The customers premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring charge for the capacity affected. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Telephone Company to determine the basis for computing chargeable access minutes. For terminating calls over usage-rated Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option to Toll Free codes, Trunkside BSA-101XXXX and FGA, FGB and FGD, and for originating calls over usage-rated MTS/WATS-type Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-101XXXX Option and FGA and FGB and FGD, the measured access minutes are the chargeable access minutes. For originating calls over usage-rated FX/ONAL Lineside BSA, Trunkside BSA-MTS/WATS Option and FGA, chargeable originating access minutes are derived from recorded minutes in the following manner:

- Step 1: Obtain recorded originating minutes and messages (measured as set forth in (A) and (C) following for FX/ONAL Lineside BSA, Trunkside BSA-MTS/WATS Option and FGA respectively) from the appropriate recording data.
- Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, Toll Free Data Base Access Service, 900, directory assistance and international from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgement from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.
- Step 3: Obtain the total nonconversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per-attempt ratio. The NCTA per-attempt ratio is obtained from the sample study identified in Step 2 by measuring the nonconversation time associated with both completed and uncompleted attempts. The total NCTA is the time on a completed attempt from customer acknowledgement of receipt of call to called-party answer (set up and ringing) plus the time on an uncompleted attempt from customer acknowledgement of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Nonconversation Time per-attempt ratio equals Total NCTA.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes (Cont'd)

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

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

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

(1) Total Attempts =  $\frac{1,000(\text{M. Mes.})}{.75 (\text{CR})}$  = 1,333.33

(2) Total NCTA = .4 (NCTA per Attempt) x 1,333.33 = 533.33

(3) Total Chargeable Originating Access Minutes =  
7,000(M. Min) + 533.33(NCTA) = 7,533.33

When assumed minutes are used, the assumed minutes are the chargeable access minutes.

SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes (Cont'd)

Usage rated Lineside BSA and FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group. Usage rated Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and FGB and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office and are then rounded up to the nearest access minute for each end office.

Assumed minutes are used for Lineside BSA and FGA FX/ONAL or MTS/WATS type services or Trunkside BSA-950 Option and FGB MTS/WATS type services which originate or terminate in end offices not equipped with measurement capabilities. The assumed average access minutes where measurement capability is not available are as set forth in 3.7(B) preceding.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes (Cont'd)

(A) Lineside BSA and Feature Group A Usage Measurement

For originating calls over Lineside BSA and FGA, usage measurement begins when the originating Lineside BSA and FGA entry switch receives an off-hook supervisory signal forwarded from the customer's point of termination. (Where Lineside BSA and FGA is used for MTS/WATS-type services, this off-hook signal is generally provided by the customer's equipment. Where Lineside BSA and FGA is used for FX/ONAL services, the off-hook signal is generally forwarded by the customer's equipment when the called party answers.)

The measurement of originating call usage over Lineside BSA and FGA ends when the originating Lineside FGA entry switch receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over Lineside BSA and FGA, usage measurement begins when the terminating Lineside BSA and FGA entry switch receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over Lineside BSA and FGA ends when the terminating Lineside BSA and FGA entry switch receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

(B) Feature Group B Usage Measurement

For originating calls over Trunkside BSA-950 Option and FGB, usage measurement begins when the originating Trunkside BSA-950 Option and FGB entry switch receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes (Cont'd)

(B) Trunkside BSA-950 Option and Feature Group B Usage Measurement  
(Cont'd)

The measurement of originating call usage over Trunkside BSA-950 Option and FGB ends when the originating Trunkside BSA-950 Option and FGB entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over Trunkside BSA-950 Option and FGB, usage measurement begins when the terminating Trunkside BSA-950 Option and FGB entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over Trunkside BSA-950 Option and FGB ends when the terminating Trunkside BSA-950 Option and FGB entry switch receives disconnect supervision from either the terminating end user's end office indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes (Cont'd)

(C) Trunkside BSA-101XXXX Option and Feature Group D Usage  
Measurement

For originating calls over Trunkside BSA-101XXXX Option and FGD with multi-frequency address signaling, usage measurement begins when the originating Trunkside BSA-101XXXX Option and FGD entry switch receives the first wink supervisory signal forwarded from the customer's point of termination. For originating calls over Trunkside BSA-101XXXX Option or FGD with out-of-band signaling, usage measurement begins when the last point of switching sends the initial address message to the customer.

The measurement of originating call usage over Trunkside BSA-101XXXX Option and FGD ends when the originating Trunkside BSA-101XXXX Option and FGD entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.6 Measuring Access Minutes (Cont'd)

- (C) Trunkside BSA-101XXXX Option and Feature Group D Usage Measurement (Cont'd)

For terminating calls over Trunkside BSA-101XXXX Option and FGD, the measurement of access minutes begins when the terminating Trunkside BSA-101XXXX Option and FGD entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over Trunkside BSA-101XXXX Option and FGD ends when the terminating Trunkside BSA-101XXXX Option and FGD entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For purposes of assessing the Operator Transfer Service charge as specified in 6.1.2(B)(3) preceding and 6.9.4 following, a call is considered transferred when the Telephone Company operator activates the switch transferring the call to the designated customer.

- (D) Toll Free Data Base Access Service Usage Measurement

Usage measurement from end offices without the customer identification function begins when the end office switch receives answer supervision from the customer's point of termination, except for Trunkside BSA-MTS/WATS Option. The usage measurement ends when the originating end office receives on-hook supervision from the customer's point of termination except for Trunkside BSA-MTS/WATS Option.

Usage measurement from end offices with the customer identification function begins when the end office switch receives the first wink supervisory signal forwarded from the customer's point of termination. The usage measurement ends when the originating end office receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the end office.

- (E) Mileage measurement for CCSAS will be calculated on an airline basis, using the V&H coordinates method, between the serving wire center of the customer's SPOI and the Telephone Company's STP.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.7 Network Blocking Charge for Trunkside BSA-101XXXX Option and Feature Group D

The customer will be notified by the Telephone Company to increase its capacity, busy hour minutes of capacity or quantities of trunks, when excessive trunk group blocking occurs on groups carrying Trunkside BSA-101XXXX Option and FGD traffic and the measured access minutes for that hour exceed the capacity purchased. Excessive trunk group blocking occurs when the blocking thresholds stated following are exceeded. They are predicated on time-consistent, hourly measurements over a 30-day period excluding Saturdays, Sundays and national holidays. If the order for additional capacity has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the customer, at the rate specified in 6.9.1 following, for each overflow in excess of the blocking threshold when the average 30-day period overflow exceeds the threshold level for any particular hour and the 30-day period measured average originating or two-way usage for the same clock hour exceeds the capacity purchased.

Trunks in Service	<u>Blocking Thresholds</u>	
	<u>1%</u>	<u>1/2%</u>
1-2	.070	.045
3-4	.050	.035
5-6	.040	.025
7 or greater	.030	.020

The 1% blocking threshold is for transmission paths carrying traffic directly between an end office and a customer's premises. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.8 Application of Rates for Extension Service

Lineside BSA and Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different building(s) in a different LATA. Lineside BSA and Feature Group A extensions within the LATA are provided and charged for under the Channel Services Tariff. Lineside BSA and Feature Group A extensions in different LATAs are provided and charged for as Special Access Service. The rate elements which apply are: A Voice Grade Channel Termination, Channel Mileage if applicable, and Signaling Capability if applicable. All appropriate monthly rates and nonrecurring charges specified in 7.5.3 following will apply.

6.8.9 Message Unit Credit

Calls from end users to the seven-digit local telephone numbers associated with Lineside BSA and Feature Group A Switched Access Service are subject to Telephone Company local tariff charges, including message unit and long distance charges as applicable. The monthly bills rendered to customers for their Lineside BSA and Feature Group A Switched Access Service will include a credit to reflect any message unit charges collected from their end users under the Telephone Company's Local Exchange Services Tariff. When the customer is provided monthly rated Lineside BSA and FGA MTS/WATS-type service for use in both the originating and terminating directions, the credit will apply to access minutes not to exceed 4500. When the customer is provided monthly rated originating only Lineside BSA and FGA MTS/WATS-type service, the credit will apply to access minutes not to exceed 9000. No credit will apply for any terminating Lineside BSA and FGA access minutes. The message unit credit for originating access minutes is as set forth in 6.9.3 following.

6.8.10 Local Information Delivery Services

Calls over Switched Access in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in 6.9 following. In addition, the charges per call as specified under the Telephone Company's Local Exchange Services Tariff, e.g., 976 Network Services, will also apply.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.11 Mileage Measurement

The mileage to be used to determine the monthly rate for the Switched Transport is calculated on the airline distance between the end office switch where the call carried by Switched Transport originates or terminates and the customer's serving wire center, except as set forth in (A) through (G) following. Flat-rated services have a specific charge for transport that is not mileage sensitive (See 6.9.2 following). Where applicable, the V&H coordinates method is used to determine mileage.

If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

To determine the rate to be billed, first determine the mileage using the V&H coordinates method, as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4, and apply the rates. When the calculation results in a fraction of a mile, always round up to the next whole mile before applying the rates.

Exceptions to the mileage measurement rules are as follows:

- (A) Mileage for Lineside BSA and Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method, between the end office switch where the Lineside BSA and Feature Group A switching dial tone is provided. Mileage is then measured from the DTD to the end office where the call is terminated. This mileage is usage sensitive.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

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Issued: January 8, 2001

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.11 Mileage Measurement (Cont'd)

Exceptions to the mileage measurement rules are as follows: (Cont'd)

- (B) Switched Transport mileage for Toll Free Data Base Access Service is based on the airline distance between the end office switch where the Toll Free Data Base Access Service traffic originates and the customer's serving wire center.
- (C) Tandem Transport mileage is measured from the customer's SWC to the end office, unless the customer has ordered Direct Trunked transport to the tandem. The DTT mileage will be measured from the SWC to the tandem and the tandem or common mileage will be measured from the tandem to the end office. The tandem or common mileage is usage sensitive. The DTT is rated monthly.
- (D) Mileage measurement to a remote switching module (RSM) is calculated on an airline basis using the V&H coordinates method, between the end office that serves as the host switch for the RSS and the customer's SWC for the Switched Access provided. This mileage is usage sensitive.
- (E) A serving wire center associated with a customer's designated premises used as a mileage measuring point may be either the wire center from which the customer would normally obtain dial tone or an alternate serving wire center as described in 6.4.3(B.) preceding.
- (F) When the Switched Transport for Switched Access Service is provided by the Telephone Company and the end user connection is provided by a CEC or a RCC, mileage for access will be calculated on an airline basis, using the V & H Coordinate Method, between the customer's serving wire center and the serving wire center of the MTSO.

6.8.12 Shared Use High Capacity Services

Shared use occurs when Special Access service and Switched Access Service are provided over the same High Capacity service through a common interface. The facility will be ordered, provisioned and rated at Switched Access (i.e., Entrance Facility, Direct Trunked Transport, as appropriate and Multiplexing, as appropriate) between the customer designated facilities and the Telephone Company SWC or Hub. When the customer chooses to use a portion of the available capacity for providing Special Access Service, then as each circuit is activated for Special Access Service, the Switched Access High Capacity Entrance Facility, Direct Trunked Transport, and multiplexer rates will be adjusted accordingly (e.g., for a VG capacity Special Access 1/24th of a DS1 service, 1/672nd of a DS3 service, etc.). Special Access Service rates and charges, as set forth in 7.5 following, will apply for each circuit of the shared use facility that is used to provide a Special Access Service when the original service is ordered as Switched Access.

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.



SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.12 Shared Use High Capacity Services (Cont'd)

The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Switched Access Services. Switched Access Service rates and charges as set forth in 6.9 following, will apply for each circuit of the Shared Use Facility that is used to provide a Switched Access Service when the base service is ordered as Switched Access. The spare channels will be assigned to either Switched Access or Special Access for rating purposes depending on how the customer ordered the service, i.e., Switched Access or Special Access respectively.

The customer must place an order for each individual Switched or Special Access Service using the Shared Use Facilities and specify the circuit assignment for each service.

When Switched Access Service Direct Trunked Transport is provided using a circuit of the Shared Use Facility to a Hub, High Capacity rates and charges will apply for the facility from the customer designated premises to the Hub and individual service rates and charges will apply from the Hub to the Access Tandem or End Office. The rates and charges that will apply to the portion from the Hub to the Access Tandem or End Office will be dependent on the specific type of Switched Access Service that is provided (i.e., Voice Grade, or DS1). The rates and charges that will apply to the portion from the customer designated facilities to the Hub will be prorated based on the capacity of the Shared Use facility to the Hub. The applicable rates and charges will include Entrance Facility and Direct Trunked Transport rates and charges, if applicable, and multiplexing, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate circuit type.

Should the customer displace the entire capacity of the Switched Transport Service with Special Access Service, the Switched Transport Service will, for billing purposes, be considered disconnected (Any future capacity due to a customer's disconnect of Switched Access Service will be considered Telephone Company inventory). Should the customer subsequently order Switched Transport Service, this will be treated as a new order, and full rates and charges for the Switched Access Service type ordered will apply.

6.8.13 Host/Remote

Direct Trunk Transport (DTT) may be ordered to a host switch. DTT rates will apply to the host switch. For service to a remote switch, tandem fixed and per mile/per MOU rates will apply between the host and remote switches. No tandem switching will apply.

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SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.13 Host/Remote (Cont'd)

Tandem transport may also be ordered to a host switch. The transport will be measured as tandem fixed and per mile/per MOU from the tandem to the host. Tandem switching will apply. For service to a remote switch, a tandem-fixed and per-mile/per-MOU charge will also apply from the host to the remote switch subtending the host.

FGA terminating service will be measured from the Dial Tone Office to the host, and the tandem-fixed and per-mile/per-MOU charge will apply. If the call is made to the remote, another tandem-fixed and per-mile/per-MOU charge will apply from the host to the remote subtending the host. Tandem switching will not apply.

A nonrecurring Remote Translation charge will apply for those customer requests which require a unique routing arrangement. This charge will apply per Remote Trunk Group, per occurrence.

Requests for service at remote offices will be accepted where the necessary space and technical capabilities exist.

6.8.14 Shared Network Arrangement

Each customer entering into a Shared Network Arrangement is solely responsible to Verizon for charges associated with that customer's portion of the shared network. Disconnection of service by the host subscriber does not relieve another user of the network of any obligation to pay access charges associated with the portion of the shared network to which that user subscribes. Billing for services and facilities will continue until a disconnect request from the service user has been received by Verizon. The host subscriber is solely responsible for notifying the connecting service user in the event of disconnection of the host service which affects that portion of the shared network service to which the user has subscribed.

For administrative purposes, one "Arrangement" under the Shared Network Arrangement offering shall be limited to the agreement between one Host Subscriber and one Service User permitting the Service User to connect a specified number of subtending circuits to one specified multiplexer on the Host's service. Agreements between one Host Subscriber and two (or three, etc.) Service Users shall be deemed to comprise two (or three, etc. respectively) separate "Arrangements". However, an agreement to expand the scope of an existing Arrangement by subsequently increasing the number of subtending facilities on the same multiplexed shall not constitute a new or separate "Arrangement".

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.14 Shared Network Arrangement (Cont'd)

A Shared Network Arrangement shall be established between a Host Subscriber and a Service User upon the completion of the service order for the first arrangement. No Shared Network Arrangement shall be deemed to be in effect until at least one subtending facility has been installed for the Service User. A Shared Network Arrangement shall be deemed canceled when the last subtending facility has been disconnected.

A Processing charge will apply for handling each service order in a Shared Network Arrangement. The Processing Charge applies in addition to all other applicable rates and charges.

6.8.15 Facility Hubs

A customer has the option of ordering high capacity facilities (i.e., DS1 or DS3) to a facility Hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., Voice Grade or DS1).

When high capacity facilities are provided between a customer premises and a facility Hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. The facility Hub will not be considered as a customer premises.

Different locations may be designated by the Telephone Company as Hubs for different facility capacities, e.g., multiplexing from DS3 to DS1 may occur at one location while multiplexing from DS1 to Voice Grade may occur at a different location. When ordering, the customer will specify the desired multiplexing Hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This Tariff identifies the type(s) of multiplexing functions available and the serving wire centers at which they are available.

The types of multiplexing arrangements available include the following:

- from higher to lower bandwidth
- from high capacity to voice grade channels

End-to-end services may be provided on channels of these facilities to a Hub. The transmission performance for the end-to-end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SWITCHED ACCESS SERVICE

6.8 Rate Regulations (Cont'd)

6.8.15 Facility Hubs (Cont'd)

The Telephone Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Additional individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub or may be ordered and/or installed at a later date, at the option of the customer. The customer who orders the High Capacity Service must order all associated individual Access Channelized Services. The customer will be billed for a high capacity Entrance Facility, Direct-Trunked Transport, Channel Mileage (when applicable), and the multiplexing arrangements at the time the facility is installed. Additional individual service rates (by service type) will apply for an Entrance Facility for additional Direct-Trunked Transport (as required) for each subsequent channelized service. These will be billed to the customer as each individual service is installed.

In addition, Hubbing may be provided at an end office if all the circuits to be multiplexed are on an individual Direct-Trunked facility and equipment is available.

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ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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6SWITCHED ACCESS SERVICE

6.9 Rates and Charges

6.9.1 Switched Transport

(A) Entrance Facilities

(1) Voice Grade

	First	Nonrecurring Charges Additional	Per Month	USOC
- per point of termination				
Two-wire .....	-	-	\$ 14.00	EFG2X
Four-wire .....	-	-	26.02	EFG4X
- per point of termination				
Two-wire				
Installation/Change	\$ 1.00	\$ 1.00	-	EFG2X
Rearrangement .....	.90	.60	-	NRBOY
Four-wire				
Installation/Change	1.00	.75	-	EFG4X
Rearrangement .....	.90	.60	-	NRBOZ

(2) DS1

- per point of termination.....	-	-	190.00	EFGDX
Installation/Change	355.00	220.00	-	EFGDX
Rearrangement .....	.90	.60	-	NRBOZ

(3) DS3

- per point of termination				
(a) Electrical				
Interface .....	1.00	1.00	2100.00	TYFAX TYFBX
(b) Optical				
Interface .....	1.00	1.00	2100.00	EF2RX

(B) Tandem Switched MOU

	Per Month	Per Minute of Use		
		Fixed	Per Mile	
Tandem Switching-End Office				
Non Toll Free	-	\$ .00000000		(C)
Tandem Switching-3 <sup>rd</sup> Party				
Non Toll Free	-	\$ .00168400		(C)
Dedicated Tandem Trunk Ports				
-per Trunk .....	\$12.50			
Tandem Transport-End Office				
Non Toll Free	-	\$ .000000	\$ .0000000	(C)
Tandem Transport-3 <sup>rd</sup> Party				
Non Toll Free	-	\$ .000000	\$ .0000020	(C)
Host/Remote Transport				
Non Toll Free	-	\$ .000000	\$ .000000	(C)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 21-0427-T-T dated June 23, 2021.

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Cancels 4th Revised Page 122a

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.1 Switched Transport (Cont'd)

(B) Tandem Switched MOU (Cont'd)

Joint Tandem Switched Transport Access Service per MOU - Toll Free (N)  
Originating 0.001000 (N)

(C) Direct Trunked Transport	Fixed	Per Month		USOC
			Per Mile	
(1) Voice Grade .....	\$ 10.00(I)	\$ 2.00(D)		1YTXS 1YTES
(2) DS1 .....	80.00(I)	22.00(D)		1YTXS 1YTCS
(3) DS3				
- Optical	825.00(D)	161.25(D)		1YTXS 1YTDS 1YTOS
- Electrical	825.00(D)	161.25(D)		1YTXS 1YTDS 1YTOS

(D) Multiplexing

- Entrance Facility, per arrangement	Nonrecurring Charge	Per Month	
DS1 to Voice Grade....	\$ 0.00(D)	\$210.00(D)	MKW1X
DS3 to DS1.....	1.00(D)	775.00(I)	MKW3X MJW3X
- Direct Trunked Transport, per arrangement			
DS1 to Voice Grade....	0.00(D)	210.00(D)	MKW1X
DS3 to DS1.....	1.00(D)	775.00(I)	MKW3X MJW3X

(E) Shared Network Arrangement

- Processing Charge per Service Order.....		40.00	SRNXX
- Alternate Serving Wire Center, per Point of Termination.....		25.00	
- Alternate SWC (elec/opt).....		250.00	

(F) Switched Access Connection Charge

- per Line or Trunk .....	-	25.00	TPP++
- Diversity-per circuit .....	-	5.00	

(G) Service Order Charge

- per Service Order .....		130.00	NRBLE
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ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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Original Page 122b

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.1 Switched Transport (Cont'd)

(I) Per Remote Trunk Group	Nonrecurring Charge	Per Month	USOC
- per occurrence .....	\$320.00	-	NRBTC
(J) Nonchargeable Optional Features			
(1) Supervisory Signaling .....		<u>FID</u>	
DX Supervisory Signaling arrangement per Transmission Path* .....		NCI	++DX+
SF Supervisory Signaling arrangement per Transmission Path# .....		NCI	++SF+
E&M Type I Supervisory Signaling arrangement per Transmission Path* .....		NCI	++EA+
E&M Type II Supervisory Signaling arrangement per Transmission Path* .....		NCI	++EB+

\* Available with Interface Groups 1 and 2.

# Available with Interface Groups 2 and 6 through 10.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.1 Switched Transport (Cont'd)

(J) Nonchargeable Optional Features (Cont'd)

(1) Supervisory Signaling (Cont'd)	<u>FID</u>
E&M Type III Supervisory Signaling	
per Transmission Path* .....	NCI ++EC+
Tandem Supervisory Signaling	
per Transmission Path† .....	NCI ++EX+
(2) Customer specification of the receive transmission level at the first point of switching within a range acceptable to the Telephone Company	
per Transmission Path# .....	TLV
(3) Customer specification of Switched Transport Termination Four-wire termination in lieu of two-wire termination	
per Transmission Path** .....	NC S+T+

(K) Common Channel Signaling	Per	
Access Service	<u>Month</u>	<u>USOC</u>
(1) STP access mileage, per mile .....	\$ 5.00	10XJX
(2) STP Port Termination, per port .....	900.00	PT8SX

(L) Alternate Serving Wire Center	Per	
per point of termination	<u>Month</u>	<u>USOC</u>
(1) DSI .....	\$ 25.00	AV3
(2) DS3 (optical or electrical) .....	250.00	AV3

\* Available with Interface Groups 1 and 2 for Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and FGD.  
† Available with Interface Group 2 for FGA.  
# Available with Interface Groups 2 through 10 for Lineside BSA, Trunkside BSA-950 Option and FGA and FGB. The range of transmission levels which may be specified is described in Technical Reference PUB 62500.  
\*\* Available with Trunkside BSA-950 Option and Feature Group B with type B Transmission Performance.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.



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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.1 Switched Transport (Cont'd)

(M) Dedicated Network Access Link (DNAL)

	Nonrecurring Charge	Per Month
(1) Metallic DNAL		
(a) Channel Termination, First		
- per point of termination....	\$200.00	\$22.50
Channel Termination, Add'l		
- per point of termination....	\$150.00	\$22.50
		Per Month
	Fixed	Per Mile
(b) Channel Mileage.....	-	\$3.25

(N) Toll Free Data Base Access Service

(O)

(1) Toll Free Data Base Access Service (available with Feature Group D and Trunkside BSA-101XXXX Option equipped with out of band signaling)

Basic Query Charge

- per Query ..... \$ .001808

- -

(D)(O)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 22-0493-T-T dated June 13, 2022.

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

(N)

6.9.1 Switched Transport (Cont'd)

(O) Dedicated Network Access Link (DNAL)

(1) Voice Grade DNAL

(a) Channel Termination

- Per point of termination

Two-Wire

Four-Wire

Monthly Rates

\$14.00

26.02

Nonrecurring Charges

First

Add'l

- Per point of termination

Installation

Two-Wire

Four-Wire

\$ 1.00

\$1.00

1.00

.75

Monthly Rates

Fixed

Per Mile

(b) Channel Mileage

\$10.00

\$2.00

(c) Optional Features

Monthly Rates

Nonrecurring Charges

(1) Conditioning

- Per point of termination

(A) C-Type

\$2.00

None

(B) Improved Attenuation  
Distortion

\$2.00

None

(C) Improved Envelope  
Delay Distortion

\$75.00

None

(2) Improved Return Loss for  
Effective Two-Wire Transmission  
or Improved Termination for  
Four-Wire Transmission

(A) Improved Return Loss

- Per point of termination

- Two-Wire

\$7.00

\$None

(B) Improved Termination

- Per point of termination

- Four-Wire

\$9.00

None

(3) Data Capability

- Per point of termination

\$2.00

\$250.00

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. 13-0808-T-T dated June 26, 2013.

ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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11<sup>th</sup> Revised Page 125  
Cancels 10<sup>th</sup> Revised Page 125

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office

(A) Local Switching

	<u>Originating</u>	<u>Terminating</u>	
<u>Non Toll Free</u>			
Features Groups -			
A, B, C and D			
Usage	\$.0022730	\$0	
Dedicated Trunk Ports			
-per Trunk, per Month.....	12.50	0	
Shared End Office Trunk.....	.0015810	0	
LS1 Premium-Lineside BSA			
and Trunkside BSA-950			
	0	0	
LS1 Premium-Lineside BSA			
and Trunkside BSA			
	0	0	
 <u>Toll Free</u>			
Features Groups -			
A, B, C and D			
Usage.....	\$.000000		(D)
Dedicated Trunk Ports			
-per Trunk, per Month.....	12.50	\$0	
Shared End Office Trunk.....	.000000		(D)
LS1 Premium-Lineside BSA			
and Trunkside BSA-950			
	0		
LS1 Premium-Lineside BSA			
and Trunkside BSA			
	0		

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 23-0452-T-T dated June 2, 2023 effective July 1, 2023.

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>FID/ USOC</u>
Call Denial on Line or Hunt Group (available with Lineside BSA and FGA) per Transmission Path or Transmission Path Group .....	-	-	CAD
Service Code Denial on Line or Hunt Group (available with Lineside BSA and FGA) per Transmission Path or Transmission Path Group .....	-	-	SCD
Hunt Group Arrangement (available with FGA) per Transmission Path Group ....	-	-	HML/GTG
Hunting Service Arrangements BSE (available with Lineside BSA) per Line .....	\$31.20*	\$.08	HSHPG
Hunting Service Arrangements: Circular BSE (available with Lineside BSA) per Line .....	31.50*	.08	HSHCH
Hunting Service Arrangements: Preferred BSE (available with Lineside BSA) per Line .....	31.50*	.10	HSHHP
Uniform Call Distribution Arrangement (available with FGA) per Transmission Path Group ....	-	-	HTY UD

\* This charge applies to subsequent activity only.

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs (Cont'd)

	<u>Rate</u>	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>FID/ USOC</u>
Uniform Call Distribution BSE (available with Lineside BSA) per Line .....		\$48.00*	\$.80	EN7PG
Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (available with FGA) per Transmission Path .....		-	-	NHN
Non-Hunt Directory Numbers BSE (available with Lineside BSA) per Line .....		24.00*	.05	HSGPN
Automatic Number Identification (available with FGB and FGD) per Transmission Path Group .....		-	-	ANI
Automatic Number Identification BSE (available with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Trunkside BSA-101XXXX Option) per Call .....	\$.0004	70.00*	-	ANI

\* This charge applies to subsequent activity only.

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs (Cont'd)

	<u>Rate</u>	<u>FID/ USOC</u>
Up to 7-Digit Outpulsing of Digits to Customer (available with Trunkside BSA-950 Option and FGB) per Transmission Path Group .....	-	USDO
Revertive Pulse Address Signaling (available with Trunkside BSA-MTS/WATS Option) per Transmission Path Group .....	-	ADS RP
Delay Dial Start-Pulsing Signaling (available with Trunkside BSA-MTS/WATS Option) per Transmission Path Group .....	-	DDSP
Calling Party Number (available with Trunkside BSA-101XXXX Option and FGD equipped with out-of-band signaling) per End Office, Per Trunk Group† .....	-	CF3CP
Charge Number (available with FGD equipped with out-of-band signaling) per End Office, Per Trunk Group† .....	-	CF3CN
Carrier Selection Parameter (available with Trunkside BSA-101XXXX Option and FGD equipped with out-of-band signaling) per End Office, Per Trunk Group# .....	-	CF3CS

† Available only on originating Trunkside BSA-101XXXX Option and FGD.

# Available only at designated Telephone Company switches.

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs (Cont'd)

	<u>FID/</u> <u>USOC</u>
Access Transport Parameter (available with Trunkside BSA-101XXXX Option and FGD(equipped with out-of-band signaling) per End Office, per Trunk Group†# .....	-
Immediate Dial Pulse Address Signaling (available with Trunkside BSA-MTS/WATS Option) per Transmission Path Group .....	ADS IDP
Dial Pulse Address Signaling (available with Trunkside BSA-MTS/WATS Option) per Transmission Path Group .....	ADS DP

† Available only on originating Trunkside BSA-101XXXX Option and FGD.  
# Available only at designated Telephone Company switches.

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs (Cont'd)

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>FID/ USOC</u>
Panel Call Indicator Address Signaling (available with Trunkside BSA-MTS/WATS Option) per Transmission Path Group .....	-	-	ADS PCI
Service Class Routing (available with Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option and FGD) per Transmission Path Group .....	-	-	SCRT
Alternate Traffic Routing (available with FGB and FGD) per Transmission Path Group ...	-	-	ARTG
Trunk Access Limitation Arrangement, available with Trunkside BSA-101XXXX Option and FGD per end office .....	-	-	CHOK
Call Gapping Arrangement, available with Trunkside BSA-101XXXX Option and FGD per end office .....	-	-	CGAP
International Carrier Option, available with Trunkside BSA-101XXXX Option per end office and access tandem .....	-	-	INCO

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs (Cont'd)

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>FID/ USOC</u>
Overflow Advance Arrangement for Use with WATS Access Line Service, available with Lineside BSA, Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGA, FGB and FGD, per arrangement .....	-	-	BAAD
Hunt Group Arrangement for Use with WATS Access Line Service, available with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGA, FGB and FGD per WATS access line group .....	-	-	HML/HTG
Uniform Call Distribution Arrangement for use with WATS Access Line Service, available with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGA, FGB and FGD per WATS access line .....	-	-	HTY UD

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(2) Common Switching Optional Features and BSEs (Cont'd)

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>FID/ USOC</u>
Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service, with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGA, FGB and FGD per WATS access line .....	-	-	NHN
Answer Supervision With a Line Side Interface BSE (available with Lineside BSA) per Line .....	\$32.50*	\$1.50	USW1X
Three-Way Call Transfer (available with Lineside BSA) per Line .....	25.00*	4.00	E03
Make Busy Arrangement (available with Lineside BSA) per Group .....	43.50*	4.25	DXV

(3) Transport Termination Nonchargeable Options

	<u>FID</u>
(a) Line Side Terminations (For Lineside BSA and FGA)	
Two-Way Operation	
Dial Pulse with Loop Start	NC +++A
Dial Pulse with Ground Start	NC +++E
DTMF with Loop Start	NC +++F
DTMF with Ground Start	NC +++G

\* This charge applies to subsequent activity only.

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(3) Transport Termination Nonchargeable Options (Cont'd)

FID

(a) Line Side Terminations

(For Lineside BSA and FGA) (Cont'd)

Terminating Operation

Dial Pulse with Loop Start	NC +++N
Dial Pulse with Ground Start	NC +++P
DTMF with Loop Start	NC +++R
DTMF with Ground Start	NC +++S

Originating Operation

Loop Start	NC +++U
Ground Start	NC +++V

(b) Trunk Side Terminations

(For Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGB and FGD)

Standard Trunk for Originating, Terminating or Two-way Operation, available with Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, FGB and FGD	TTC SO
	TTC ST
	TTC TY

Rotary Dial Station Signaling Trunk, available with Trunkside BSA-950 Option and FGB	TTC RD
--	--------

Operator Trunk, Coin, Noncoin or Combined Coin and Noncoin, available with Trunkside BSA-MTS/WATS Option	TTC CO
--	--------

Operator Trunk, Full Feature Arrangement, available with Trunkside BSA-101XXXX Option and FGD	TTC FF
---	--------

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.2 End Office (Cont'd)

(A) Local Switching (Cont'd)

(4) WATS Access Line Termination Chargeable Options

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>USOC</u>
Answer Supervision Trunk Side Terminations, for WATS access lines originating only			
Initial and Additional WATS Access Line Service, per trunk group			
per initial WATS access line . . . . .	\$103.81	\$16.37	(U)
each additional WATS access line . . . . .	57.63	16.37	(U)

(B)

(1) WATS Access Line  
Terminations Nonchargeable Options

(a) Line Side Terminations:

FID

Originating-only Loop Start, Line Side Connection, with DTMF Address Signaling per Transmission Path.....	NC	+++R
Originating-only Loop Start, Line Side Connection, with Dial Pulse Address Signaling per Transmission Path.....	NC	+++N
Originating-only Ground Start, Line Side Connection, with DTMF Address Signaling per Transmission Path.....	NC	+++S
Originating-only Ground Start, Line Side Connection, with Dial Pulse Address Signaling per Transmission Path.....	NC	+++P

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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Cancels 3<sup>rd</sup> Revised Page 134

SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

FID

6.9.3 Message Unit Credit, per originating access minute ... \$.0009

6.9.5 VoIP-PSTN

These rates can also be found in the Telephone Company's applicable federal access tariff.

(A) Tandem Switched Transport

	Usage Rate	
	Fixed	Per Mile
<u>Tandem Transport, per MOU - Non Toll Free</u>		
Originating Rate Zone 1	\$.000000	\$.000002
Originating Rate Zone 2	.000000	.000002
Originating Rate Zone 3	.000000	.000002
Terminating Rate Zone 1	.000000	.000002
Terminating Rate Zone 2	.000000	.000002
Terminating Rate Zone 3	.000000	.000002
<u>Tandem Switching, per MOU - Non Toll Free</u>		
Originating Rate Zone 1	\$.001684	
Originating Rate Zone 2	.001684	
Originating Rate Zone 3	.001684	
Terminating Rate Zone 1	.001684	
Terminating Rate Zone 2	.001684	
Terminating Rate Zone 3	.001684	
<u>Transport Multiplexing - Non Toll Free</u>		
(DS3 to DS1), per MOU	0.000000	
<u>Joint Tandem Switched Transport Access Service, per MOU - Toll Free</u>		
Originating	0.000000	

(D)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 23-0452-T-T dated June 2, 2023 effective July 1, 2023.

ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

6.9.5 VoIP-PSTN (Cont'd)

(B) Local Switching

<u>Premium Rates</u>	<u>Originating Rate</u>	<u>Terminating Rate</u>	
LS1-Feature Groups A, B, C & D - Non Toll Free	\$.002273	\$0	
LS1-Feature Groups A, B, C & D - Toll Free	\$.000000	\$0	(D)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. 23-0452-T-T dated June 2, 2023 effective July 1, 2023.

Issued: May 26, 2023

Effective: July 1, 2023

ACCESS SERVICE TARIFF  
P.S.C.-W.Va.-No. 217

Frontier West Virginia Inc.

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SWITCHED ACCESS SERVICE

6.9 Rates and Charges (Cont'd)

	<u>FID</u>	(M)
6.9.6 Operator Transfer Service, per call transferred .....	\$.22	(M)

(M) Material appearing on this page previously appeared on Original Page 34. (N)

Issued by authority of an Order of the Public Service Commission of West Virginia  
in Case No. 11-1781-T-T dated March 29, 2012.

SPECIAL ACCESS SERVICE

7.1 General

Special Access Service provides a transmission path to connect customer-designated premises\*, either directly or through a Telephone Company hub where bridging or multiplexing functions are performed. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

Transmission specifications,  
Bandwidth,  
Speed, e.g., bit rate,  
Spectrum

Customers can order a basic channel and select, from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low-speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 hertz (Hz).

WATS Access Line - a channel between a customer-designated premises and a Wide Area Telephone Service (WATS) serving office for transmission of intrastate traffic.

\* Telephone Company Centrex CO-like switches are considered to be customer premises for purposes of this tariff.

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel: (Cont'd)

Wideband Analog - a channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - an analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps, or asynchronous serial data at rates up to 19.2, 50.0 or 230.4 kbps.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in Service Descriptions following.

The customer also has the option of ordering voice grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Telephone Company hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are specified in Service Descriptions following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also specified in Service Descriptions following.

For example, a customer may order a 3.152 Mbps facility from a customer-designated premises to a Telephone Company hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to voice grade or wideband analog (i.e., Group Level) channels or may be extended to other customer-designated premises. Optional features may be added to either the 1.544 Mbps or the voice grade channels.

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.2 Rate Categories

There are four basic rate categories which apply to Special Access Service:

Channel Terminations (described in 7.1.2(A) following)  
Channel Mileage (described in 7.1.2(C) following)  
Optional Features and Functions (described in 7.1.2(E) following)  
Surcharge (described in 7.4.2 following)

(A) Channel Termination

The channel termination rate category provides for the communications path between a customer-designated premises and the serving wire center of that premises. Included as part of the channel termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as specified in (E) following. One Channel Termination Charge applies per customer-designated premises at which the channel is terminated. This charge will apply even if the customer-designated premises and the serving wire center are colocated in a Telephone Company building.

(B) Channel Mileage

Channel mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer-designated premises, between a serving wire center associated with a customer-designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel mileage rates are comprised of a fixed rate element and a per-mile rate element.

(C) Optional Features and Functions

The optional features and functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.2 Rate Categories

(C) Optional Features and Functions (Cont'd)

combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

The following is a list of Verizon's Open Network Architecture (ONA) Special Access Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Service User Guide, July 31, 1991, from the product name utilized in this tariff.

<u>GENERIC NAME</u>	<u>VERIZON PRODUCT NAME</u>
Access To Clear Channel Transmission	Clear Channel Capability
Automatic Protection Switching	Automatic Loop Transfer
Bridging	Bridging
Conditioning	Conditioning

Examples of optional features and functions that are available include, but are not limited to, the following:

Signaling Capability  
Hubbing Functions  
Conditioning  
Transfer Arrangements

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer-designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available optional features and functions are specified in 7.2 following.

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-point Service

A two-point service connects two customer-designated premises, either on a directly-connected basis or through a hub where multiplexing functions are performed.

Applicable rate elements are:

Channel Terminations  
Channel Mileage (as applicable)  
Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge as specified in 7.4.2 following, may be applicable.

(B) Multipoint Service

Multipoint service connects three or more customer-designated premises through a Telephone Company hub. There is no limitation on the number of midlinks available with multipoint service. However, when more than three midlinks are provided in tandem, the quality of the service may be degraded. A midlink is a channel between hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions specified in 7.2. following.

Multipoint service utilizing a customized technical specifications package as specified in 7.2 following will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s) selected from the Telephone Company list of available hub locations. The hub list will specify the type of bridging available at a given location and the wire centers served from that hub.

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

Applicable Rate Elements are:

Channel terminations (one per customer-designated premises),

Channel mileage (as applicable between each customer-designated premises and the hub and between hubs),

Bridging, and

Optional features (when applicable)

In addition, the Special Access Surcharge as specified in 7.4.2 following may be applicable.

7.1.4 Alternate Use

Alternate use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an Individual Case Basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an Individual Case Basis. The customer will pay the stated tariff rates for the access service rate elements ordered, i.e., channel terminations, channel mileage, as applicable, and optional features if any.

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-only) are specified in Section 11 following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.10 Rate Deregulated Services

Where special access service is not carrier access service, but instead is provided by the Telephone Company directly to an end user customer, the rates and charges specified herein shall not apply to the services which were rate deregulated by the Public Service Commission in Case No. 04-0292-T-PC and which may be used for special access, namely, digital data service and high capacity digital data service (DS-1 and above); frame relay service; asynchronous transfer mode service, including switching and other components; and transparent LAN services. Such rates and charges are as specified in the informational pricing schedule provided to the Commission Staff or as set forth in any applicable individual case basis contract with the end user customer.

(N)

(N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. 04-0292-T-PC dated August 10, 2004.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.6 Design Layout Report (Cont'd)

its overall service. This information will be provided in the form of a design layout report. The design layout report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters:

- (A) For voice grade analog services, acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic, Telegraph, Video, Wideband Analog and Wideband Data) and for digital services (i.e., Digital Data and High Capacity) acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

In addition to the aforementioned tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in Section 13, paragraph 13.3.5(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions specified in Section 5 preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges etc.).

7.1.9 Special Access Surcharge

A Special Access Surcharge, as specified in 7.5.10 following, will apply to Special Access Service provided to a customer in accordance with the regulations specified in 7.4.2 following.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions

For the purposes of ordering, there are seven categories of Special Access Service. These are:

- Metallic (MT)
- Telegraph Grade (TG)
- Voice Grade (VG)
- Wideband Analog (WA)
- Wideband Data (WD)
- Digital Data (DA)
- High Capacity (HC)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered, the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub where bridging or multiplexing functions are performed.

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two-letter codes are shown preceding in parentheses following the category of Special Access Service. The letter "C" following the two-letter code indicates the technical specifications package for a customized service. A numeric or alphanumeric designation following the two-letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

Channel interfaces at each point of termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. However, communications can only be provided between points of terminations with compatible channel interfaces. Only certain channel interfaces are compatible. These are specified in 7.3.5 following in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References specified at the end of 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following technical references for each category of service:

Metallic	TR-NPL-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-NPL-000335 and associated Revisions PUB 62501 and associated Addendum PUB 41004, Table 4
WATS Access Line	TR-NPL-000334 and associated Revisions
Program Audio	TR-NPL-000337, Issue 1
Video	TR-NPL-000338
Wideband Analog	TR-NPL-000339
Wideband Data	TR-NPL-000340
Digital Data	PUB 62507 and associated Addendum PUB 62310
High Capacity	PUB 62411 PUB 62411A

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in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.1 Metallic Service

(A) Basic Channel Description

A metallic channel is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

(B) Technical Specifications Packages

Parameter	Package MT-			
	C	1	2	3
DC Resistance				
Between Conductors.....	X	X	X	
Loop Resistance .....	X			X
Shunt Capacitance .....	X			X

The technical specifications are delineated in Technical Reference 000336.

(C) Channel Interfaces

Compatible channel interfaces are specified in 7.3.5(A) following.

(D) Optional Features and Functions

Central Office Bridging Capability

(1) Three-premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer-designated premises.

(2) Series Bridging of up to 26 customer-designated premises.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package MT-			
	C	1	2	3
Three-premises Bridging.....	X	X		X
Series Bridging.....	X		X	

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.2 Telegraph Grade Service

(A) Basic Channel Description

A telegraph grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph grade channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package TG -</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Distortion . . . . .	X	X	X

The technical specifications are delineated in Technical Reference 000336.

(C) Channel Interfaces

Compatible channel interfaces are specified in 7.3.5(B) following.

(D) Optional Features and Functions

Telegraph Bridging (two-wire and four-wire)

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package TG -</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Bridging . . . . .	X	X	X

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service

(A) Basic Channel Description

A voice grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated as analog two-wire or four-wire, or where facilities permit, as a four-wire in a digital format when used with another analog termination at the other end. Voice grade channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

Parameter	Package VG-												
	C*	1	2	3	4	5	6	7	8	9	10	11	12
Attenuation Distortion.....	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise.....	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control.....	X	X	X	X		X		X	X			X	X
Envelope Delay Distortion.....	X						X	X	X	X	X	X	X
Frequency Shift.....	X						X	X	X	X	X	X	X
Impulse Noise.....	X					X	X	X	X	X	X	X	X
Intermodulation Distortion.....	X						X	X	X	X	X	X	
Loss Deviation.....	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain Hits, and Dropouts	X												
Phase Jitter.....	X						X	X	X	X	X	X	
Signal-to-C Message Noise.....					X								
Signal-to-C Notch Noise.....	X					X	X	X	X	X	X	X	

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference 000335.

(C) Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are specified in 7.3.5(C) following.

\* The desired parameters are selected by the customer from the list of available parameters.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions

(1) Central Office Bridging Capability

- (a) Voice Bridging (two-wire and four-wire)
- (b) Data Bridging (two-wire and four-wire)
- (c) Telephoto Bridging (two-wire and four-wire)
- (d) Select-A-Station Service Bridging with sequential arrangement ports or addressable arrangement ports
- (e) Telemetry and Alarm Bridging

Split Band, Active Bridging  
Passive Bridging  
Summation, Active Bridging

(2) Central Office Multiplexing

Voice to Telegraph Grade: An arrangement that converts a voice grade channel to telegraph grade channels using frequency division multiplexing.

(3) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade Services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each midlink or end link. C-Type and data capability conditioning may be combined on the same service.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Conditioning (Cont'd)

(a) C-Type Conditioning

C-type conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-type conditioning are:

Attenuation Distortion  
(Frequency Response)  
Relative to 1004 Hz

<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

Envelope Delay

<u>Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (micro- seconds)</u>
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000

(b) Sealing Current Conditioning

Sealing current conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(4) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the POT. This level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference PUB 62501.

(5) Improved Termination and Return Loss

(a) Improved termination on effective four-wire transmission at four-wire point of termination (applicable to each two-wire port): Provides for a fixed 600-ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The improved return loss parameters are delineated in Technical Reference 000335 and associated revisions.

(b) Improved return loss on effective two-wire transmission at two-wire point of termination: Provides for more stringent echo control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The improved return loss parameters are delineated in Technical Reference 000335 and associated revisions.

(6) Data Capability

Data capability provides transmission characteristics suitable for data communications. Specifically, data capability provides for the control of signal-to-C-notched noise ratio and intermodulation distortion. It is available for two-point services or multipoint services.

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7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(6) Data Capability (Cont'd)

The signal-to-C-notched noise ratio and intermodulation distortion parameters for data capability are:

Signal-to-C-notched noise ratio is equal to or greater than 32dB.

Intermodulation distortion:

Signal to second order modulation products (R2) is equal to or greater than 38dB

Signal to third order modulation products (R3) is equal to or greater than 42dB

(7) Telephoto Capability

Telephoto capability provides transmission characteristics suitable for telephotographic communications. Specifically, telephoto capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for telephoto capability are:

Attenuation Distortion  
(1004 Hz Reference)

<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

Envelope Delay Distortion

<u>Frequency Range (Hz)</u>	<u>Variation (mcs)</u>
1000-2600	100
800-2800	180

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(8) Signaling Capability

Signaling capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(9) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

(10) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key-activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

(11) Four-wire/Two-wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer-designated premises, a four-wire to two-wire conversion is required. The customer will be charged the Four-wire Channel Termination rate as specified in 7.5.3 (A) following when effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic Four-wire Channel Termination rate.

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7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available:

	C*	Available with Technical Specifications Package VG-											
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
C-Type Conditioning . . . . .	X					X	X	X	X	X	X		
Central Office Bridging Capability . . . . .	X		X			X	X				X	X	X
Central Office Multiplexing	X						X						
Customer-specified Premises Receive Level . . . . .	X		X	X				X	X	X			
Data Capability . . . . .	X						X	X			X		
Improved Return Loss For Effective Four-wire Transmission . . . . .	X	X	X	X	X	X	X	X	X	X	X	X	X
For Effective Two-wire Transmission . . . . .	X		X	X				X					
Sealing Current Conditioning . . . . .	X						X						
Selective Signaling Arrangement . . . . .	X		X										
Signaling Capability . . . . .	X	X	X	X				X	X	X			
Telephoto Capability . . . . .	X											X	
Transfer Arrangement . . . . .	X	X	X	X	X	X	X	X	X	X	X	X	X

7.2.4 WATS Access Line Service

(A) Basic Channel Description

A WATS Access Line Service is a channel which provides voice frequency transmission capability. The service provides customer-premises to customer-premises connection through the combination of a WATS access connection, a dedicated channel between the customer's end user's premises and a WATS serving office equipped with Feature Group A, B or D service as specified in Section 6 preceding. The WATS access connection is dedicated to one customer who has the ability to transport traffic intrastate.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.4 WATS Access Line Service (Cont'd)

(A) Basic Channel Description (Cont'd)

The WATS access connection is comprised of a channel termination from the customer's end user serving wire center to the customer's end user premises.

WATS Access Line Service is service arranged for originating, terminating or two-way transmission to or from an end user's premises at the option of the customer. It is provided with rotary dial or dual tone multifrequency address signaling and with either loop start or ground start signaling. Two-way WATS Access Line Service is subject to recording capability and central office capacity.

Originating-only and two-way originating-only WATS Access Line Service customers, at their option and at no charge, may be provided access to test lines in their local central office to test the WATS access connection. Access to two types of lines is available, balance (type 100) and milliwatt (type 102). Where available, this feature is only provided in Telephone Company electronic end offices in which WATS access connections are provided.

(B) Technical Specifications Packages

<u>Parameters</u>	<u>Packages WAL-</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Attenuation Distortion .....	X	X	
Bit Error Rate .....			X
C-Message Noise .....	X	X	
Echo Control .....	X	X	
Envelop Delay Distortion .....	X	X	
Frequency Shift .....	X	X	
Impulse Noise .....	X	X	
Intermodulation Distortion .....	X	X	
Loss Diviation .....	X	X	
Phase Jitter .....	X	X	
Signal-to-C Notch Noise .....	X	X	

WATS access connections are offered as either effective two-wire, effective four-wire, high capacity or improved two-wire access connections. The technical limitations are delineated in Technical Reference TR-NPL-000334.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.4 WATS Access Line Service (Cont'd)

(C) Channel Interfaces

Compatible channel interfaces are specified in 7.3.5(D) following.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

Voice Bridging, two-wire and four-wire

(2) Improved Two-wire Transmission Specifications

7.2.5

7.2.6 Wideband Analog Service

(A) Basic Channel Description

A wideband analog channel is a channel with a bandwidth measured in kilohertz (kHz) for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. Wideband analog channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Packages WA-</u>				
	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Amplitude Stability.....	X	X			
Background Noise.....	X	X	X	X	X
Frequency Shift.....	X	X	X		
Gain/Frequency Characteristics of:					
Group Connections .....	X			X	X
Mastergroup Connection .....			X		
Supergroup Connections .....		X			
Impulse Noise.....	X	X	X		
Net Loss Variations.....	X	X	X	X	X
Pilot Slot.....	X	X	X		
Spurious Single Frequency Tone.....	X	X	X		

The technical specifications are delineated in Technical Reference 000339.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service (Cont'd)

(C) Channel Interfaces (CI)

The following channel interfaces define the bandwidths that are available for a wideband analog channel.

<u>CI</u>	<u>Bandwidth</u>
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	28 kHz to 44 kHz
WD-3	29 kHz to 44 kHz

Compatible channel interfaces are specified in 7.3.5(E) following.

(D) Optional Features and Functions

Central Office Multiplexing

(1) Mastergroup to Supergroup

An arrangement that converts a mastergroup channel to ten supergroup channels using frequency division multiplexing.

(2) Supergroup to Group

An arrangement that converts a supergroup channel to five Group channels using frequency division multiplexing.

(3) Group to Voice

An arrangement that converts a group channel to twelve voice grade channels using frequency division multiplexing. A channel of this group level service to the hub can be also used for Metallic Services.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(4) Group to DS1

An arrangement that converts two group channels to a DS1 channel using analog to digital conversion.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package WA-				
	1	2	2A	3	4
Central Office Multiplexing:					
Mastergroup to Supergroup .....			X		
Supergroup to Group .....		X			
Group to Voice .....	X				
Group to DS1*					

7.2.7 Wideband Data Service

(A) Basic Channel Description

A wideband data channel is an analog channel for the transmission of synchronous serial data at the rate of 19.2, 50.0, or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0, or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 data station. The 303 data station provides coupling between the customer's business machine and the wideband data transmission medium and is required only at the end user premises. A voiceband coordinating channel is also provided. Wideband data channels are provided between customer-designated premises.

(B) Technical Specifications Package

Parameter	Package WD-		
	1	2	3
Error-free Seconds .....	X	X	X

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75%. The technical specifications are delineated in Technical Reference 000340

\* Requires two channels with technical specifications package WA1 to form a WA1T service.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.7 Wideband Data Service (Cont'd)

(C) Channel Interfaces

The following channel interfaces define the bit rates that are available for a Wideband Data channel:

<u>CI</u>	<u>Bit Rate</u>
WB-18S	18.75 kbps, synchronous
WB-19A	up to 19.2 kbps, asynchronous
WB-19S	19.2 kbps, synchronous
WB-23A	up to 230.4 kbps, asynchronous
WB-23S	230.4 kbps, synchronous
WB-40S	40.8 kbps, synchronous
WB-50A	up to 50.0 kbps, asynchronous
WB-50S	50.0 kbps, synchronous

Compatible channel interfaces are specified in 7.3.5(F) following.

(D) Optional Features and Functions

Key-activated Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key-activated control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option. The following table shows the technical specifications packages with which the optional features and functions are available

	<u>Available with Technical Specifications Package WD-</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Key-activated Transfer Arrangement.....	X	X	X

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service

(A) Basic Channel Description

A digital data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital data channels are only available via Telephone Company designated hubs and are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package DA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds .....	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a digital data channel:

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-56	56.0 kbps
DU-96	9.6 kbps

Compatible channel interfaces are specified in 7.3.5(G) following.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service (Cont'd)

(D) Optional Features and Functions

- (1) Central Office Bridging Capability
- (2) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer's premises. This arrangement is only available at a Telephone Company designated hub. A key-activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging				
Capability .....	X	X	X	X
Transfer Arrangement .....	X	X	X	X

7.2.9 High Capacity Service

(A) Basic Channel Description

A high capacity channel is a channel for the transmission of nominal 64.0 kbps\* or 1.544, 3.152, 6.312, 44.736, or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High capacity channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

\* Available only as a channel of a 1.544 Mbps facility between two Telephone Company digital data hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities at a digital data hub. The customer must provide system and channel assignment data.

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7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(B) Technical Specifications Packages

<u>Parameters</u>	<u>Package HC-</u>					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-free Seconds .....		X				

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411 and Supplement A.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a high capacity channel:

<u>CI</u>	<u>Bit Rate</u>
DS-15†	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are specified in 7.3.5(H) following.

(D) Optional Features and Functions

(1) Automatic Loop Transfer

The automatic loop transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is not included as a part of the option. This

† A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company hub.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(1) Automatic Loop Transfer (Cont'd)

option requires compatible equipment at both the serving wire center and the customer premises. Customers are responsible for providing the equipment at their premises.

(2) Transfer Arrangement

An arrangement that affords customers an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key-activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

(3) Central Office Multiplexing

(a) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time-division multiplexing.

(b) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time-division multiplexing.

(c) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time-division multiplexing.

(d) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time-division multiplexing.

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7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

(e) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the hub can also be used for Digital Data or Metallic Services.

(f) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

(g) DS0 to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Automatic Loop Transfer.....		X				
Central Office Multiplexing:						
DS4 to DS1 .....						X
DS3 to DS1 .....					X	
DS2 to DS1 .....				X		
DS1C to DS1 .....			X			
DS1 to Voice .....		X				
DS1 to DS0 .....		X				
DS0 to Subrate* .....	X					
Transfer Arrangement .....		X				

\* Available only on a Channel of a 1.544 Mbps facility to a Telephone Company hub. Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes

The customer must specify the channel interface codes and network channel codes when ordering Special Access Service. Following 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 MT network channel code and a 2DC8-3 channel interface at the customer's premises, the following is being requested:

MT = Metallic channel with a predefined technical specification package  
2 = Number of physical wires at customer premises  
DC = Facility interface for direct current or voltage  
8 = Variable impedance level  
3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

7.3.1 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)
CT	-	Centrex tie trunk termination
DA	-	data stream in VF frequency band at customer's end user's point of termination
DB	-	data stream in VF frequency band at customer's point of termination
	- 10	VF for TG1 and TG2
	- 43	VF for 43 telegraph carrier type signals, TG1 and TG2 direct current or
DC	-	voltage.
	- 1	monitoring interface with series RC combination (McCulloh format)
	- 2	Telephone Company energized alarm channel Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

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SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD	-	Select-A-Station (and TABS) interface at customer's point of termination
DE	-	Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS	-	digital hierarchy interface
	- 15	1.544 Mbps (DS1) format per PUB 62411 and Supplement A 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 62411 and Supplement A
	- 15K	1.544 Mbps format per PUB 62411 and Supplement A plus extended framing format
	- 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
	- 24	2.4 kbps
	- 48	4.8 kbps
	- 56	56.0 kbps
	- 96	9.6 kbps
	- A	1.544 Mbps format per PUB 62411 and Supplement A
	- B	1.544 Mbps format per PUB 62411 and Supplement A plus D4
	- C	1.544 Mbps format per PUB 62411 and Supplement A 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	- M	Type I E&M lead signaling. Customer at POT or customer's end user at POT originates on M lead.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

Code	Option	Definition
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
GS	-	ground start loop signaling - closed end function by customer or customer's end user
	- C	Centrex foreign exchange termination
	- M	For terminating in central office located answering service concentrator.
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
LS	-	loop start loop signaling - closed end function by customer or customer's end user
NO	-	no signaling interface, transmission only
PR	-	protective relaying*
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
SF	-	single-frequency signaling with VF band at either customer POT or customer's end user POT

\* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
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
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
WC	-	wideband data interface at customer's end user POT
	- 18	18.75 kbps, synchronous
	- 19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous
	- 23	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, asynchronous
WD	-	wideband bandwidth interface at customer POT
	- 1	nominal passband from 300 to 18000 Hz
	- 2	nominal passband from 28000 to 44000 Hz
	- 3	nominal passband from 29000 to 44000 Hz

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.2 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

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer-designated premises. Customers who have ordered hubbed, multiplexed DS1 systems and are connecting channelized services will be requested to provide subsequent system and channel assignment data. Customers who order these interfaces in conjunction with other compatible nondigital interfaces without subsequent system and channel assignment data will be provided service on Telephone Company Facilities Inventory. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DS0 or 4DS6 plus the speed options indicated following.

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS9-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

\* For those interface codes with a 4-wire transmission path at the customer-designated POT, rather than a standard 900-ohm impedance, the code (3) denotes a customer-provided transmission equipment termination.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 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
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
WA1	WJ
WAIT	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

Service Designator Code	Network Channel Code
HC0	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

7.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

(A) Metallic

Compatible CIs		Compatible CIs	
4AH5-B	2DC8-1	4AH6-D	2DC8-2
4AH5-B	2DC8-2	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

(B) Telegraph Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	10IA8	4AH6-D	2TT2-6	4DB2-43†	2TT2-6
4AH5-B	2TT2-2	4AH6-D	4TT2-6	4DB2-43†	4TT2-2
4AH5-B	4TT2-2	2DB2-10	10IA8	4DS9-#	10IA8
4AH5-B	2TT2-6	2DB2-10	2TT2-2	4DS9-#	2TT2-2
4AH5-B	4TT2-6	2DB2-10	4TT2-2	4DS9-#	4TT2-2
4AH6-C	10IA8	2DB2-43†	10IA8	4DS9-#	2TT2-6
4AH6-C	2TT2-2	2DB2-43†	2TT2-2	4DS9-#	4TT2-6
4AH6-C	4TT2-2	2DB2-43†	2TT2-6	2TT2-2	2TT2-2
4AH6-C	2TT2-6	2DB2-43†	4TT2-2	2TT2-3	2TT2-2
4AH6-C	4TT2-6	4DB2-10	10IA8	2TT2-3	4TT2-2
4AH6-D	10IA8	4DB2-10	2TT2-2	2TT2-6	2TT2-6
4AH6-D	2TT2-2	4DB2-10	4TT2-2	2TT2-6	4TT2-2
4AH6-D	4TT2-2	4DB2-43†	10IA8	4TT2-2	4TT2-2
				4TT2-6	2TT2-6

\* See 7.3.3 preceding for explanation. Available only when the customer has provided the system and channel assignment data.

† Supplemental Channel Assignment information required.

# See 7.3.3 preceding for explanation.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AB2	4AB2	4AH6-C	4DX3	4AH5-B	9EA3
4AB2	4AC2	4AH5-B	4DX3	4AH5-B	6EA2-E
4AB3	4AC2	4AH6-D	4DX2	4AH5-B	6EA2-M
4AB2	2AC2	4AH6-C	4DX2	4AH5-B	4EA2-E
4AB3	2AC2	4AH5-B	4DX2	4AH5-B	4EA2-M
4AB2	2AC2	4AH6-D	9DY2	4AH6-D	8EB2-E
4AB3	2AC2	4AH6-D	9DY3	4AH6-D	8EB2-M
4AB2	4SF2	4AH6-D	6DY2	4AH6-D	6EB2-E
4AB3	4SF2	4AH6-D	6DY3	4AH6-D	6EB2-M
4AC2	4AC2	4AH6-D	4DY2	4AH6-C	8EB2-E
4AC2	2AC2	4AH6-D	2DY2	4AH6-C	8EB2-M
4AH6-D	4AC2	4AH6-C	9DY2	4AH6-C	6EB2-E
4AH6-D	2AC2	4AH6-C	9DY3	4AH6-C	6EB2-M
4AH6-C	4AC2	4AH6-C	6DY2	4AH5-B	8EB2-E
4AH6-C	2AC2	4AH6-C	6DY3	4AH5-B	8EB2-M
4AH5-B	4AC2	4AH6-C	4DY2	4AH5-B	6EB2-E
4AH5-B	2AC2	4AH6-C	2DY2	4AH5-B	6EB2-M
4AH6-D	2CT3	4AH5-B	9DY2	4AH6-D	2G02
4AH6-C	2CT3	4AH5-B	9DY3	4AH6-D	2G03
4AH5-B	2CT3	4AH5-B	6DY2	4AH6-C	2G02
4AH6-D	6DA2	4AH5-B	6DY3	4AH6-C	2G03
4AH6-D	4DA2	4AH5-B	4DY2	4AH5-B	2G02
4AH6-D	2DA2	4AH5-B	2DY2	4AH5-B	2G03
4AH6-C	6DA2	4AH6-D	9EA2	4AH6-D	6GS2
4AH6-C	4DA2	4AH6-D	9EA3	4AH6-D	4GS2
4AH6-C	2DA2	4AH6-D	6EA2-E	4AH6-D	2GS3*
4AH5-B	6DA2	4AH6-D	6EA2-M	4AH6-D	2GS2
4AH5-B	4DA2	4AH6-D	4EA2-E	4AH6-C	6GS2
4AH5-B	2DA2	4AH6-D	4EA2-M	4AH6-C	4GS2
4AH6-D	4DE2	4AH6-C	9EA2	4AH6-C	2GS3*
4AH6-C	4DE2	4AH6-C	9EA3	4AH6-C	2GS2
4AH5-B	4DE2	4AH6-C	6EA2-E	4AH5-B	6GS2
4AH6-D	2DE2	4AH6-C	6EA2-M	4AH5-B	4GS2
4AH6-C	2DE2	4AH6-C	4EA2-E	4AH5-B	2GS3*
4AH5-B	2DE2	4AH6-C	4EA2-M	4AH5-B	2GS2
4AH6-D	4DX3	4AH5-B	9EA2	4AH6-D	2LA2

\* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-C	2LA2	4AH6-C	2N02	2CT3	6DY2
4AH5-B	2LA2	4AH5-B	4N02	2CT3	4DY2
4AH6-D	2LB2	4AH5-B	2N02	2CT3	2DY2
4AH6-C	2LB2	4AH6-D	4PR2	2CT3	9EA3
4AH5-B	2LB2	4AH6-D	2PR2	2CT3	9EA2
4AH6-D	2LC2	4AH6-C	4PR2	2CT3	6EA2-E
4AH6-C	2LC2	4AH6-C	2PR2	2CT3	6EA2-M
4AH5-B	2LC2	4AH5-B	4PR2	2CT3	4EA2-E
4AH6-D	2L03	4AH5-B	2PR2	2CT3	4EA2-M
4AH6-D	2L02	4AH6-D	4RV2-T	2CT3	8EB2-E
4AH6-C	2L03	4AH6-D	2RV2-T	2CT3	8EB2-M
4AH6-C	2L02	4AH6-C	4RV2-T	2CT3	6EB2-E
4AH5-B	2L03	4AH6-C	2RV2-T	2CT3	6EB2-M
4AH5-B	2L02	4AH5-B	4RV2-T	2CT3	6EB3-E
4AH6-D	4LR2	4AH5-B	2RV2-T	2CT3	8EC2
4AH6-D	2LR2	4AH6-D	4SF2	2CT3	4SF2
4AH6-C	4LR2	4AH6-C	4SF2	2CT3	4SF3
4AH6-C	2LR2	4AH5-B	4SF2	6DA2	6DA2
4AH5-B	4LR2	4AH6-D	4SF3	6DA2	4DA2
4AH5-B	2LR2	4AH6-C	4SF3	6DA2	6DA2
4AH6-D	6LS2	4AH5-B	4SF3	4DA2	4DA2
4AH6-D	4LS2	4AH6-D	4TF2	4DA2	2DA2
4AH6-D	2LS2	4AH6-D	2TF2	2DA2	2DA2
4AH6-D	2LS3†	4AH6-C	4TF2	4DB2	6DA2
4AH6-C	6LS2	4AH6-C	2TF2	4DB2	4DA2
4AH6-C	4LS2	4AH5-B	4TF2	4DB2	2DA2
4AH6-C	2LS2	4AH5-B	2TF2	2DB3	2DA2
4AH6-C	2LS3†	2CT3	2CT3	2DB2	2DA2
4AH5-B	6LS2	2CT3	4DS9-*	4DB2	4DB2
4AH5-B	4LS2	2CT3	6DX2	4DB2	4N02
4AH5-B	2LS2	2CT3	4DX2	4DB2	2N02
4AH5-B	2LS3†	2CT3	4DX3	2DB2	2N02
4AH6-D	4N02	2CT3	9DY3	4DB2	4PR2
4AH6-D	2N02	2CT3	6DY3	4DB2	2PR2
4AH6-C	4N02	2CT3	9DY2	2DB2	2PR2

\* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

† The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2GS3-M).

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4DD3	4DE2	4DS9*	2GS3†	4DX3	9DY3
4DD3	2DE2	4DS9*	2LA2	4DX2	9DY2
4DS9*	4AC2	4DS9*	2LB2	4DX3	9DY2
4DS9*	2AC2	4DS9*	2LC2	4DX2	6DY3
4DS9*	6DA2	4DS9*	2L02	4DX3	6DY3
4DS9*	4DA2	4DS9*	2L03	4DX2	6DY2
4DS9*	2DA2	4DS9*	4LR2	4DX3	6DY2
4DS9*	4DE2	4DS9*	2LR2	4DX2	4DY2
4DS9*	2DE2	4DS9*	6LS2	4DX3	4DY2
4DS9*	4DX3	4DS9*	4LS2	4DX2	2DY2
4DS9*	4DX2	4DS9*	2LS2	4DX3	2DY2
4DS9*	9DY3	4DS9*	2LS3#	6DX2	9EA3
4DS9*	9DY2	4DS9*	4N02	6DX2	9EA2
4DS9*	6DY3	4DS9*	2N02	6DX2	6EA2-E
4DS9*	6DY2	4DS9*	4PR2	6DX2	6EA2-M
4DS9*	4DY2	4DS9*	2PR2	6DX2	4EA2-E
4DS9*	2DY2	4DS9*	4RV2-T	6DX2	4EA2-M
4DS9*	9EA2	4DS9*	2RV2-T	4DX2	9EA2
4DS9*	9EA3	4DS9*	4SF2	4DX3	9EA2
4DS9*	6EA2-E	4DS9*	4SF3	4DX2	9EA3
4DS9*	6EA2-M	4DS9*	4TF2	4DX3	9EA3
4DS9*	4EA2-E	4DS9*	2TF2	4DX2	6EA2-E
4DS9*	4EA2-M	4DX2	4DX2	4DX3	6EA2-E
4DS9*	8EB2-E	4DX3	4DX2	4DX2	6EA2-M
4DS9*	8EB2-M	4DX3	4DX3	4DX3	6EA2-M
4DS9*	6EB2-E	6DX2	9DY3	4DX2	4EA2-E
4DS9*	6EB2-M	6DX2	9DY2	4DX3	4EA2-E
4DS9*	2G02	6DX2	6DY3	4DX2	4EA2-M
4DS9*	2G03	6DX2	6DY2	4DX3	4EA2-M
4DS9*	6GS2	6DX2	4DY2	6DX2	8EB2-E
4DS9*	4GS2	6DX2	2DY2	6DX2	8EB2-M
4DS9*	2GS2	4DX2	9DY3	6DX2	6EB2-E

\* See 7.3.3 preceding for explanation.

† The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

# The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6DX2	6EB2-M	4DX2	4RV2-T	6EA2-M	2AC2
4DX2	8EB2-E	4DX3	2RV2-T	9EA2	9DY3
4DX2	8EB2-M	4DX2	2RV2-T	9EA2	9DY2
4DX3	8EB2-E	6DX2	4SF2	9EA2	6DY3
4DX3	8EB2-M	4DX2	4SF2	9EA2	6DY2
4DX2	6EB2-E	4DX3	4SF2	9EA2	4DY2
4DX2	6EB2-M	4DX3	4SF3	9EA2	2DY2
4DX3	6EB2-E	4DX2	4SF3	9EA3	9DY3
4DX3	6EB2-M	9DY3	9DY3	9EA3	9DY2
4DX2	2LA2	9DY3	9DY2	9EA3	6DY3
4DX3	2LA2	9DY2	9DY2	9EA3	6DY2
4DX3	2LA2	9DY3	6DY3	9EA3	4DY2
4DX2	2LB2	9DY3	6DY2	9EA3	2DY2
4DX3	2LB2	9DY2	6DY2	6EA2-E	9DY3
4DX3	2LB2	9DY2	6DY3	6EA2-E	9DY2
4DX2	2LC2	9DY3	4DY2	6EA2-E	6DY3
4DX3	2LC2	9DY2	4DY2	6EA2-E	6DY2
4DX3	2LC2	9DY2	2DY2	6EA2-E	4DY2
4DX2	2L03	9DY3	2DY2	6EA2-E	2DY2
4DX3	2L03	6DY3	6DY3	6EA2-M	9DY3
4DX3	2L03	6DY3	6DY2	6EA2-M	9DY2
4DX2	6LS2	6DY2	6DY2	6EA2-M	6DY3
4DX3	6LS2	6DY3	4DY2	6EA2-M	6DY2
4DX3	4LS2	6DY3	2DY2	6EA2-M	4DY2
4DX2	4LS2	6DY2	4DY2	6EA2-M	2DY2
4DX3	2LS3#	6DY2	2DY2	4EA2-E	9DY3
4DX2	2LS3#	4DY2	2DY2	4EA2-E	9DY2
4DX3	2LS2	4DY2	4DY2	4EA3-E	9DY3
4DX2	2LS2	2DY2	2DY2	4EA3-E	9DY2
4DX3	2LS2	6EA2-E	4AC2	4EA3-E	6DY3
4DX3	2LS3#	6EA2-M	4AC2	4EA3-E	6DY2
4DX3	4RV2-T	6EA2-E	2AC2	4EA3-E	4DY2

# The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA3-E	2DY2	4EA3-E	4EA2-E	4EA2-M	6EB2-E
4EA2-E	6DY3	4EA3-E	4EA2-M	4EA2-M	6EB2-M
4EA2-E	6DY2	4EA2-E	4EA2-M	6EA2-E	2LA2
4EA2-E	4DY2	4EA3-E	9EA2	6EA2-M	2LA2
4EA2-E	2DY2	4EA3-E	9EA3	6EA2-E	2LB2
4EA2-M	9DY3	4EA2-M	4EA2-M	6EA2-M	2LB2
4EA2-M	9DY2	9EA2	8EB2-E	6EA2-E	2LC2
4EA2-M	6DY3	9EA2	8EB2-M	6EA2-M	2LC2
4EA2-M	6DY2	9EA2	6EB2-E	6EA2-E	2L03
4EA2-M	4DY2	9EA2	6EB2-M	6EA2-M	2L03
4EA2-M	2DY2	9EA3	8EB2-E	6EA2-E	6LS2
4EA2	9EA2	9EA3	8EB2-M	6EA2-M	6LS2
4EA2	9EA3	9EA3	6EB2-E	6EA2-E	4LS2
4EA2	6EA2-E	9EA3	6EB2-M	6EA2-M	4LS2
4EA2	6EA2-M	6EA2-E	8EB2-E	6EA2-E	2LS2
4EA2	4EA2-E	6EA2-E	8EB2-M	6EA2-M	2LS2
4EA2	4EA2-M	6EA2-E	6EB2-E	6EA2-E	2LS3
4EA3	9EA3	6EA2-E	6EB2-M	6EA2-M	2LS3
4EA3	6EA2-E	6EA2-M	8EB2-E	6EA2-E	4RV2-T
4EA3	6EA2-M	6EA2-M	8EB2-M	6EA2-M	4RV2-T
4EA3	4EA2-E	6EA2-M	6EB2-E	6EA2-E	2RV2-T
4EA3	4EA2-M	6EA2-M	6EB2-M	6EA2-M	2RV2-T
4EA2-E	6EA2-E	4EA2-E	8EB2-E	9EA3	4SF2
4EA2-E	6EA2-M	4EA2-E	8EB2-M	9EA2	4SF2
4EA2-M	6EA2-M	4EA3-E	8EB2-E	6EA2-E	4SF3
4EA2-E	4EA2-E	4EA3-E	8EB2-M	6EA2-M	4SF3
4EA2-E	4EA2-M	4EA2-E	6EB2-E	6EA2-E	4SF2
4EA2-M	4EA2-E	4EA2-E	6EB2-M	6EA2-M	4SF2
4EA2-M	4EA2-M	4EA3-E	6EB2-E	4EA3-E	4SF2
4EA2-E	4EA2-E	4EA3-E	6EB2-M	4EA2-E	4SF2
4EA3-E	6EA2-E	4EA2-M	8EB2-E	4EA2-M	4SF2
4EA3-E	6EA2-M	4EA2-M	8EB2-M	8EB2-E	4AC2

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SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
8EB2-M	4AC2	6EB2-M	2DY2	8EB2-M	2LS2
8EB2-E	2AC2	6EB3-E	9EA2	8EB2-E	2LS3*
8EB2-M	2AC2	6EB3-E	9EA3	8EB2-M	2LS3*
8EB2-E	9DY3	6EB3-E	6EA2-E	8EB2-E	4RV2-T
8EB2-E	9DY2	6EB3-E	6EA2-M	8EB2-M	4RV2-T
8EB2-E	6DY3	6EB3-E	4EA2-E	8EB2-E	2RV2-T
8EB2-E	6DY2	6EB3-E	4EA2-M	8EB2-M	2RV2-T
8EB2-E	4DY2	8EB2-E	8EB2-E	8EB2-E	4SF2
8EB2-E	2DY2	8EB2-E	8EB2-M	8EB2-M	4SF2
8EB2-M	9DY3	8EB2-M	8EB2-M	8EB2-E	4SF3
8EB2-M	9DY2	8EB2-E	6EB2-E	8EB2-M	4SF3
8EB2-M	6DY3	8EB2-E	6EB2-M	6EB3-E	4SF2
8EB2-M	6DY2	8EB2-M	6EB2-E	6EB2-E	4SF2
8EB2-M	4DY2	8EB2-M	6EB2-M	6EB2-M	4SF2
8EB2-M	2DY2	6EB2-E	6EB2-E	8EC2	9DY2
6EB2-E	9DY2	6EB2-E	6EB2-M	8EC2	9DY3
6EB2-E	9DY3	6EB3-E	8EB2-E	8EC2	6DY2
6EB3-E	9DY2	6EB3-E	8EB2-M	8EC2	6DY3
6EB3-E	9DY3	6EB2-M	6EB2-M	8EC2	4DY2
6EB2-E	6DY2	8EB2-E	2LA2	8EC2	2DY2
6EB3-E	6DY2	8EB2-M	2LA2	8EC2	9EA2
6EB2-E	6DY3	8EB2-E	2LB2	8EC2	9EA3
6EB3-E	6DY3	8EB2-M	2LB2	8EC2	6EA2-E
6EB2-E	4DY2	8EB2-E	2LC2	8EC2	6EA2-M
6EB3-E	2DY2	8EB2-M	2LC2	8EC2	4EA2-E
6EB3-E	4DY2	8EB2-E	2L03	8EC2	4EA2-M
6EB2-M	9DY2	8EB2-M	2L03	8EC2	8EB2-E
6EB2-M	9DY3	8EB2-E	6LS2	8EC2	8EB2-M
6EB2-M	6DY2	8EB2-M	6LS2	8EC2	6EB2-E
6EB2-M	6DY3	8EB2-E	4LS2	8EC2	6EB2-M
6EB2-M	4DY2	8EB2-M	4LS2	8EC2	4SF2
6EB2-E	2DY2	8EB2-E	2LS2	6EX2-B	2G03

\* The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2GS3-C or 2GS3-M).

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6EX2-A	6GS2	2G03	2GS3*	2LR2	2LR2
6EX2-A	4GS2	6G02	4SF2	2LR3	2LR2
6EX2-A	2GS2	4G02	4SF2	4LR2	4SF2
6EX2-A	2GS3*	4G03	4SF2	4LR3	4SF2
6EX2-B	2LA2	6GS2	2G02	6LS2	2LA2
6EX2-B	2LB2	4GS2	2G02	4LS2	2LA2
6EX2-B	2LC2	4GS2	4G02	4LS3	2LA2
6EX2-B	2L02	4GS3	2G02	2LS2	2LA2
6EX2-B	2L03	4GS2	2G03	2LS3†	2LA2
6EX2-B	4LR2	6L02	6LS2	6LS2	2LB2
6EX2-B	2LR2	6L02	4LS2	4LS2	2LB2
6EX2-A	6LS2	6L02	2LS2	4LS3	2LB2
6EX2-A	4LS2	6L02	2LS3†	2LS2	2LB2
6EX2-A	2LS2	4L02	6LS2	2LS3†	2LB2
6EX2-A	2LS3†	4L02	4LS2	6LS2	2LC2
6EX2-A	4SF2	4L03	6LS2	4LS2	2LC2
6EX2-B	4SF2	4L03	4LS2	4LS3	2LC2
6G02	6GS2	4L03	2LS3†	2LS2	2LC2
6G02	4GS2	4L03	2LS2	2LS3†	2LC2
6G02	2GS2	4L02	2LS2	6LS2	2L03
6G02	2GS3*	4L02	2LS3†	6LS2	2L02
4G02	6GS2	2L03	2LS3†	4LS2	2L02
4G03	6GS2	2L03	2LS2	4LS2	2L03
4G02	4GS2	2L02	2LS2	4LS3	2L02
4G03	4GS2	2L02	2LS3†	4LS3	2L03
4G02	2GS2	6L02	4SF2	6LS2	4SF2
4G02	2GS3*	4L02	4SF2	4LS3	4SF2
4G03	2GS2	4L03	4SF2	4N02	6DA2
4G03	2GS3*	4LR3	4LR2	4N02	4DA2
2G02	2GS2	4LR3	2LR2	4N02	2DA2
2G03	2GS2	4LR2	4LR2	2N02	6DA2
2G02	2GS3*	4LR2	2LR2	2N02	4DA2

\* The "C" and "M" option as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

† The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

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SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
2N02	2DA2	4SF3	4DY2	4SF3	2LC2
4N02	4DE2	4SF3	2DY2	4SF2	2L03
4N02	2DE2	4SF2	2DY2	4SF3	2L03
4N02	4N02	4SF3	9EA2	4SF2	2LR2
4N02	2N02	4SF3	9EA3	4SF3	4LR2
2N02	2N02	4SF3	4EA2-E	4SF3	2LR2
2N03	2N02	4SF3	4EA2-M	4SF3	6LS2
2N03	2PR2	4SF3	6EB2-E	4SF2	4LS2
4RV2-0	4RV2-T	4SF3	6EB2-M	4SF3	4LS2
4RV2-0	2RV2-T	4SF2	2G03	4SF2	2LS2
2RV2-0	2RV2-T	4SF3	6GS2	4SF2	2LS3†
4RV2-0	4SF2	4SF2	6GS2	4SF3	2LS2
4SF2	4AC2	4SF2	4GS2	4SF3	2LS3†
4SF2	2AC2	4SF3	4GS2	4SF3	4RV2-T
4SF3	9DY3	4SF2	2GS2	4SF2	4RV2-T
4SF2	9DY2	4SF2	2GS3*	4SF2	2RV2-T
4SF3	9DY2	4SF3	2GS2	4SF3	2RV2-T
4SF2	9DY3	4SF3	2GS3*	4SF3	4SF3
4SF3	6DY3	4SF2	2LA2	4SF3	4SF2
4SF2	6DY2	4SF3	2LA2	4SF2	4SF2
4SF2	6DY3	4SF2	2LB2	4TF2	4TF2
4SF3	6DY2	4SF3	2LB2	4TF2	2TF2
4SF2	4DY2	4SF2	2LC2	2TF3	2TF2

(D) WATS Access Line Service

Compatible CIs		Compatible CIs		Compatible CIs	
4DS9*	4DS9*	2L03	4DS9*	2RV3-0	4RV2-0
2G03	4DS9*	2L03	2LS2	4RV2-0	4DS9*
2G03	2GS2	2L03	4LS2	4RV2-0	2RV2-T
2G03	2GS3	4L02	4DS9*	4RV2-0	2RV3-T
2G03	4GS3	4L02	2LS2	4RV2-0	4RV2-0
4G02	4DS9*	4L02	4LS2		
4G02	2GS2	2RV3-0	4DS9*		
4G02	2GS3	2RV3-0	2RV2-T		
4G02	4GS2	2RV3-0	2RV3-T		

\* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination, i.e., 2GS3-C or 2GS3-M.

† The "M" option as described in 7.3.1 preceding is also available with this combination, i.e., 2LS3-M.

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(E) Wideband Analog

Compatible CIs		Compatible CIs		Compatible CIs	
4AH5-B	4AH5-B	4AH6-D	4AH6-D	4WD5-1	4WA5-1
4AH6-C	4AH5-B	4AH5-B	4DS9-15	4WD5-2	4WA5-1
4AH6-C	4AH6-C			4WD5-3	4WA5-2
4AH6-D	4AH5-B				
4AH6-D	4AH6-C				
		4AH5-B	4DU8-A, B or C		
		4AH6-C	4DU8-A, B or C		
		4AH6-D	4DU8-A, B or C		

(F) Wideband Data

Compatible CIs		Compatible CIs		Compatible CIs	
8WB5-18S	12WC6-18	8WB5-23A	10WC6-23	8WB5-50A	10WC6-50
8WB5-19A	10WC6-19	8WB5-23S	12WC6-23S	8WB5-50S	12WC6-50
8WB5-19S	12WC6-19	8WB5-40S	12WC6-40		

(G) Digital Data

Compatible CIs		Compatible CIs		Compatible CIs	
4DS9-15	4DS9-15*	4DS9-15	6DU5-48	4DU5-96	4DU5-96
4DS9-15	4DU5-24	4DS9-15	6DU5-56	6DU5-24	6DU5-24
4DS9-15	4DU5-48	4DS9-15	6DU5-96	6DU5-48	6DU5-48
4DS9-15	4DU5-56	4DU5-24	4DU5-24	6DU5-56	6DU5-56
4DS9-15	4DU5-96	4DU5-48	4DU5-48	6DU5-96	6DU5-96
4DS9-15	6DU5-24	4DU5-56	4DU5-56	4DU5-96S	4DU5-96S
4DS9-15	4DU5-24S	4DS9-15	6DU5-48S	6DU5-24S	6DU5-24S
4DS9-15	4DU5-48S	4DS9-15	6DU5-56S	6DU5-48S	6DU5-48S
4DS9-15	4DU5-56S	4DS9-15	6DU5-96S	6DU5-56S	6DU5-56S
4DS9-15	4DU5-96S	4DU5-24S	4DU5-24S	6DU5-96S	6DU5-96S
4DS9-15	6DU5-24S	4DU5-48S	4DU5-48S		
		4DU5-56S	4DU5-56S		

\* Available only as a cross-connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(H) High Capacity

Compatible CIs		Compatible CIs	
4DS0-63	4DS0-63	4DS9-15	6DU8-B
4DS0-63	6DU8-A,B or C	4DS9-15	4DU8-B
4DS0-63	4DU8-A,B or C	4DS9-15J	6DU8-A
4DS6-27	4DS6-27	4DS9-15J	4DU8-A
4DS6-27	6DU8-A,B or C	4DS9-15K	6DU8-B
4DS6-27	4DU8-A,B or C	4DS9-15K	4DU8-B
4DS6-44	4DS6-44	4DS9-15K	6DU8-C
4DS6-44	6DU8-A,B or C	4DS9-15K	4DU8-C
4DS6-44	4DU8-A,B or C	4DS9-31	4DS9-31
4DS9-15	4DS9-15†	4DS9-31	6DU8-A,B or C
4DS9-15J	4DS9-15J	4DS9-31	4DU8-A,B or C
4DS9-15K	4DS9-15K	4DU9-A,B or C	4DU8-A,B or

7.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access Service.

7.4.1 Types of Rates and Charges

There are two types of rates and charges. These are monthly rates and nonrecurring charges. The rates and charges are described as follows.

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity, i.e., installation or change to an existing service. The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. (T)

† Available also as a cross connect of two individual channels of 1.544 Mbps. facilities at a Telephone Company hub.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are specified in 7.5 following as a Nonrecurring Charge for the Channel Termination rate element.

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which nonrecurring charges apply are:

Voice Grade Data Capability  
Voice Grade Telephoto Capability  
Wideband Data Transfer Arrangement

(3) Service Rearrangements

Service rearrangements are changes to existing installed services which do not result in either a change in the minimum period requirements as specified in 5.2.5 preceding, i.e., change from one type of Special Access Service to another or a change from one type of channel termination to another, or a change in the physical location of the POT at a customer-designated premises. Changes in the type of service, channel termination or in the type of high capacity multiplexer, e.g. from DS1 to voice to DS1 to digital, are treated as disconnects and starts. Changes in the physical location of the POT are treated as moves and are described and charged for as specified in 7.4.4 following.

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7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes will be made without charge to the customer. Such changes require the continued provision and billing of the Access Service to the same customer, i.e., same customer remains responsible for all outstanding indebtedness for the Access Service. Administrative changes are as follows.

Change of customer name,

Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,

Change in billing data, e.g., name, address, or contact name or telephone number,

Change of agency authorization,

Change of customer circuit identification,

Change of billing account number,

Change of customer test line number,

Change of customer or customer's end user contact name or telephone number, and

Change of jurisdiction.

All other service rearrangements will be charged for as follows.

If the change involves the addition of another leg to an existing multipoint service, the nonrecurring charge for the channel termination rate element will apply. The charge will apply only for the leg that is being added.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

If the change involves changing the type of signaling on a Voice Grade Service, a charge equal to the voice grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.

For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

7.4.2 Surcharge for Special Access Service

(A) General

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

(B) Application

- (1) The Special Access Surcharge will apply to each Special Access Service that terminates on an end user's PBX or other device where, through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include but are not limited to wiring and software functions, bridging, switching or patching of calls or stations. The surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex CO-type switch.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(B) Application (Cont'd)

- (2) Special Access Service will be exempted from the surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations.
- (a) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
  - (b) a termination used for TELEX Service; or
  - (c) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines; or
  - (d) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line Charges such as, where the channel services facility access only FGA and no local exchange lines, or channel services facility between customer points or termination or channel services facility connecting CCSA or CCSA-type equipment (intermachine trunks); or
  - (e) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device that has not been blocked by either hardware or software partitioning restrictions from connecting the channel services facility to a local exchange customer line.

(C) Exemption of Special Access Service

- (1) Special Access Services, which are terminated as specified in (B) preceding, will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company: at the time the Special Access Service is ordered or installed; at such time as the service is reterminated to a device incapable of interconnection to local exchange facilities; or at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(C) Exemption of Special Access Service (Cont'd)

- (2) The exemption certification is to be provided by the customer ordering the services. The certification must be signed by the customer or authorized representative and include the category of exemption, as specified in (B) (2) preceding, for each termination, and the date which the exemption is effective.
- (3) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (4) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. However, the Telephone Company reserves the right to request additional information from the customer, when necessary, to assure qualifications for exemption of the surcharge are met. In addition, the Telephone Company may withhold exemption of the service until the dispute is resolved.

(D) Rate Regulations

- (1) The surcharge applies to each channel of a Special Access Service and per voice grade equivalent service derived from a Special Access Service as shown in the following example:

Special Access Service	Voice Grade Equivalent		Surcharge	Monthly Charge
DS1	24	X	\$25	= \$600.00

One surcharge will apply for each termination of a multipoint Special Access Service at a customer's designated premises.

- (2) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each Special Access Service installed unless exemption certification is provided as specified in (C) preceding.
- (3) If a written certification is not received at the time the Special Access Service is obtained, the surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations specified in (4) following.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(D) Rate Regulations (Cont'd)

(4) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as specified in (C) preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed 90 days, based on the effective date of the change as specified by the customer in the letter of certification.

7.4.3 Minimum Periods

The minimum service period for all services is one month.

7.4.4 Moves

A move involves a change in the physical location of one of the following.

The POT at the customer's premises  
The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half of the nonrecurring charge for the service termination affected. There will be no change in the minimum period requirements.

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the channel mileage is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer-designated premises, a serving wire center associated with a customer-designated premises and a Telephone Company hub or two Telephone Company hubs. The serving wire center associated with a customer-designated premises is the serving wire center from which the customer-designated premises would normally obtain dial tone.

Mileage is stated in 7.5 following in terms of a per-mile structure. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, then apply the appropriate rates. When the calculation results in a fraction of a mile, always round up to the next whole mile before applying the rate.

When hubs are involved, mileage is computed and rates applied separately for each section of the channel mileage, i.e., customer-designated premises serving wire center to hub, hub to hub, and/or hub to customer-designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer-specified bridging or multiplexing, e.g., the Telephone Company chooses to so route for test access purposes, rates will be applied only to the distance calculated between the serving wire centers associated with the customer-designated premises.

7.4.6 Facility Hubs

A customer has the option of ordering Voice Grade facilities or analog or digital high capacity facilities (i.e., group, supergroup, master-group, DS1, DS1C, DS2, DS3 or DS4) to a facility hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., telegraph, etc.).

When analog or digital high capacity facilities are provided between a customer premises and a facility hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. A facility hub is not considered to be a customer premises.

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When ordering, the customer will specify the desired multiplexing hub(s) from a list that the Telephone Company will make available. The hub list will specify the type of multiplexing available at a specific location and the wire centers served from that hub.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.6 Facility Hubs (Cont'd)

Some of the types of multiplexing available include the following:

- From higher to lower bit rate
- From higher to lower bandwidth
- From digital to voice frequency channels

End-to-end services may be provided on channels of these facilities to a hub. The transmission performance for the end-to-end service provided between the customer-designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be voice grade, not high capacity.

The Telephone Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer or the service order. Additional individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub, or may be ordered and/or installed at a later date, at the option of the customer. The customer ordering High Capacity Service must order all associated individual access channelized service. The customer will be billed for a voice grade or a high capacity analog or digital channel termination, channel mileage, when applicable, and the multiplexer at the time the facility is installed. Additional individual service rates, by service type, will apply for the channel termination and additional channel mileage, as required, for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a high capacity analog or digital channel is demultiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further demultiplexed. For example, a Supergroup facility is demultiplexed to five group facilities and then one of the Group facilities is further demultiplexed to individual voice grade channels.

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations channel mileage charges also apply between the hubs.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.7 Shared Use Analog and Digital High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service are provided over the same Wideband Analog or High Capacity Special Access Service through a common interface. The facility will be ordered, provisioned and rated as Special Access Service (i.e., channel termination, channel mileage, as appropriate, and multiplexer and a terminating channelized individual service [by channel type], and channel mileage, as appropriate) until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. As each individual channel is activated for Switched Access Service, the Special Access Service channel termination, channel mileage and multiplexer rates will be reduced accordingly (e.g., 1/12th for a group (i.e., WA1) service, 1/24th for a DSL service, 1/672nd for DS3 service, etc). This reduction provision does not apply to channels used to provision Wide Area Telephone Service Access Line Service since it is Special Access Service.

Switched Access Service rates and charges specified in Section 6 preceding, will apply for each channel of the shared use facility that is used to provide Switched Access Service. Where Special Access Service is provided utilizing a channel of the shared facility to the hub, wideband analog or high capacity rates and charges will apply for the facility to the hub, as specified preceding, and individual service rates and charges will apply from the hub to the customer-designated premises. The rates and charges that will apply to the portion from the hub to the customer-designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., voice grade, telegraph, etc.). The applicable rates and charges will include a channel termination and channel mileage, if applicable Rates and charges for optional features and functions associated with the service, if any, will apply as specified in 7.5 following. The customer must place an order for each individual Switched or Special Access Service utilizing shared use facilities and specify the channel assignment for each such service.

Should the customer displace (reduce) the entire capacity of the Special Access High Capacity Service with Switched Access Service, the Special Access Service will, for billing purposes, be considered disconnected. Any future capacity due to a customer's disconnect of Switched Access Service will be considered Telephone Company inventory. Should the customer subsequently order Special Access Service, this will be treated as a new order and full rates and charges for the Special Access Service type ordered, as specified in 7.5 following, will apply.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.8 Voice Grade Rate Stability Plan

(A) Rate Stability Plan

The Voice Grade Rate Stability Plan is available to any customer utilizing four-wire Voice Grade Special Access Services who qualifies for the plan's minimum requirements and agrees to the plan's terms and conditions. The minimum service requirements for participation in this plan are: 250 four-wire Voice Grade Special Access Channel Terminations; all of the customer's four-wire Special Access services must be subject to the Voice Grade Rate Stability Plan. The Rate Stability Plan will allow customers to stabilize their rates at current levels for four-wire voice grade services for a period of two years from the installation date of the customer's order with the option by the customer to extend the rate stability period for up to two extensions of six months each. In return for this assurance of rate stability, the customer agrees to guarantee a designated percentage of growth in service as specified in (C) following.

(B) Rate Stability Plan Services

The only services which will be rate stabilized are those identified as having voice grade transmission capability within the analog 300 to 3000 hertz (Hz) frequencies and as specified in the Technical Specifications in 7.2.3 following and the Telephone Company's requirements. The transmission interface specification will only be four-wire. All four-wire services added during the term of the Rate Stability Plan will be subject to the plan for the remaining portion of the rate stability period. However, only the rate elements listed in 7.5.11 following will be stabilized.

(C) Rate Stability Plan Application

The Rate Stability Plan will only stabilize the voice grade channel termination and channel mileage recurring rate elements for the customer. The recurring rates for these elements for the service period will be the rates in effect on the service effective date. The currently available rates for the Voice Grade Rate Stability Plan are as specified in 7.5.11 following. This Rate Stability Plan does not include the rates for Optional Features and Functions and Nonrecurring Charges. Full recurring rates for future optional features and functions requirements will be applied according to rates then in effect. Full Nonrecurring Charges for future requirements apply to all connects, changes and additions or deletions of circuits and features and functions according to the rates then in effect.

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7.4 Rate Regulations (Cont'd)

7.4.8 Voice Grade Rate Stability Plan (Cont'd)

(C) Rate Stability Plan Application (Cont'd)

As specified in (A) preceding, the customer guarantees a minimum annual growth in service in four-wire channel terminations during the Rate Stability Period of four percent. This minimum annual growth will be measured at each service anniversary date against the initial number of four-wire channel terminations converted to the Plan at the service effective date. In addition, the customer guarantees two-percent growth in service for each six-month extension selected.

As part of the rate plan growth guarantee, a deficiency payment will be imposed for any channel termination shortfall as determined at the service anniversary date. The deficiency payment amount will be comprised of the deficit between actual and agreed upon growth in channel terminations times an averaged dollar amount. The averaged dollar amount for the deficiency payment will be the four-wire channel termination rate in effect at the service effective date plus an average per-mile mileage quantity and an average fixed mileage quantity times the rates in effect at the service effective date and annualized.

The average mileage portion of the deficiency payment calculation will be determined by the channel termination, fixed mileage quantities and circuit miles relationships at the service effective date.

In the case of a six month extension, the deficiency payment will be calculated at the end of the extension, using an annual growth rate of four percent per year, i.e., two percent for the six month extension period.

7.4.9 Special Access Rate Exceptions

Services provided by the Telephone Company to connect a customer location to a Public Data Network Access Concentrator or Packet Switch will be rated as a channel termination and, when the customer is normally served by a different serving office, channel mileage applies from the normal serving office to the concentrator or the switch serving office. No channel termination applies at the concentrator or the switch serving office except where protocol conversion is provided, in which case a channel termination will apply to the protocol conversion provider.

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges

7.5.1	Metallic Service Per	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>USOC</u>
	(A) Channel Termination, per point of termination .....	\$ 89.00	\$16.58	T6ECS
		<u>Per Month</u>		
		<u>Fixed</u>	<u>Per Mile</u>	
	(B) Channel Mileage .....	None	\$4.84	1L5LS
	(C) Optional Features and Functions	<u>Nonrecurring Charge</u>	<u>Per Month</u>	
	Bridging			
	(1) Three-premises Bridging, per port .....	-	ICB	BCNM3
	(2) Series Bridging, per port .....	-	ICB	BCNMS

7.5.2 Telegraph Grade Service

(A)	Channel Termination, per point of termination			
	Two-Wire .....	\$112.00	\$26.25	T6E2X
	Four-wire .....	112.00	42.01	T6E4X
		<u>Per Month</u>		
		<u>Fixed</u>	<u>Per Mile</u>	
	(B) Channel Mileage .....	\$8.55	\$5.20	1L5LS
	(C) Optional Features and Functions			
	Telegraph Bridging, two-wire and four-wire, per port		<u>Per Month</u>	
	Two-wire .....		ICB	BCNT2
	Four-wire .....		ICB	BCNT4

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service

(A) Channel Termination, per point of termination	<u>Nonrecurring Charge</u>		
Two-wire.....	\$168.00	\$35.68	T6E2X
Four-wire.....	168.00	57.08	T6E4X
		<u>Per Month</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(B) Channel Mileage .....	\$8.55	\$5.20	1L5LS
(C) Optional Features and Functions			
(1) Bridging			
(a) Voice Bridging			
		<u>Per Month</u>	
Two-wire/Four-wire, per port			
Two-wire.....		ICB	BCNV2
Four-wire.....		ICB	BCNV4
(b) Data Bridging			
Two-wire/Four-wire, per port			
Two-wire.....		ICB	BCNV2
Four-wire.....		ICB	BCNV4
(c) Telephoto Bridging			
Two-wire/Four-wire, per port			
Two-wire.....		ICB	BCNV2
Four-wire.....		ICB	BCNV4

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7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

(1) Bridging (Cont'd)

(d) Select-A-Station Service Bridging

Sequential Arrangement Ports	Nonrecurring Charge	Per Month	USOC
Per 2-wire channel connected.....	\$314.00	\$ 2.87	DQ2
Per 4-wire channel connected.....	314.00	14.97	DQ4
Addressable Arrangement Ports			
Per 2-wire channel connected.....	336.00	2.87	KQ2
Per 4-wire channel connected.....	336.00	14.97	KQ4

(e) Telemetry and Alarm Bridging

Active Bridging Channel  
Connections

Split Band

Per channel connected... ICB ICB CNLRX

Summation

Per channel connected... ICB ICB BCNSA

Passive Bridging Channel  
Connections

Per channel connected... ICB ICB BCNTP

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

(2) Conditioning

Per point of termination	Per Month	<u>USOC</u>
C-Type .....	\$4.44	X1CPT
Sealing Current .....	None	1HBPT

(3) Improved Return Loss for Effective Two-wire Transmission, or Improved Termination for Four-wire Transmission, per point of termination

Two-wire Improved Return Loss .....	ICB	1RL2W
Four-wire Improved Termination .....	ICB	1RL4W

(4) Customer-specified Receive Level, per two-wire point of termination .....

	None	RLS
--	------	-----

(5) Multiplexing Nonrecurring Charge

Voice to Telegraph Grade, per arrangement .....	-	ICB	MQX
---	---	-----	-----

(6) Data Capability, per point of termination .....

	ICB	ICB	XDCPT
--	-----	-----	-------

(7) Telephoto Capability, per point of termination .....

	ICB		XTCPT
--	-----	--	-------

(8) Signaling Capability, per point of termination .....

	6.86	XSS++
--	------	-------

In lieu of ++, substitute appropriate two-digit code from the following list to specify type of signaling.

AB	DX	EB	GO	LB	LR	SF
AC	DY	EC	GS	LC	LS	
CT	EA	EX	LA	LO	RV	

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7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd)	Per Month	USOC
(9) Selective Signaling Arrangement, per arrangement .....	ICB	USZ
(10) Transfer Arrangement (key-activated* or dial-up†), per four-port arrangement including control channel termination# .....	ICB	USY
Per five-port arrangement including control channel termination# .....	ICB	US5

7.5.4 WATS Access Line Service

(A) WATS Access Connection	Nonrecurring Charge		
Per point of termination			
Two-wire .....	\$168.00	\$35.68	X2W/ XEE
Four-wire .....	168.00	57.08	X4W/ XEE
(B) Channel Mileage .....	No Charge		1LFXX
(C) Optional Features and Functions			
(1) Bridging			
WATS Access Connection Bridging			
Two-wire Four-wire, per port			
Two-wire.....		ICB	BCNV2
Four-wire.....		ICB	BCNV4
(2) Improved Two-wire Transmission Specifications, per point of termination .....		ICB	X2T

\* The key-activated control channel is rated as a metallic channel termination and channel mileage, if applicable. T6EME  
1L5MS

† The dial-up option requires the customer to purchase the controller arrangement from Section 13, paragraph 13.3.8 following. XTDDU

# An additional Channel Termination Charge will apply whenever a spare channel is configured as a leg to the customers premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

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7.5 Rates and Charges (Cont'd)

7.5.5

7.5.6 Wideband Analog Service

(A) Channel Termination, per point of termination

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>USOC</u>
60 kHz - 108 kHz (AH-B) .....	ICB	ICB	TWT++
312 kHz - 552 kHz (AH-C) .....	ICB	ICB	TWT++
564 kHz - 3084 kHz (AH-D) .....	ICB	ICB	TWT++
300 kHz - 18 kHz (WD-1) .....	ICB	ICB	TWT++
29 kHz - 44 kHz (WD2&3) .....	ICB	ICB	TWT++

(B) Channel Mileage

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
60 kHz - 108 kHz .....	ICB	ICB	1LO++
312 kHz - 552 kHz .....	ICB	ICB	1LO++
564 kHz - 3084 kHz .....	ICB	ICB	1LO++
300 Hz - 18 kHz .....	ICB	ICB	1LO++
29 kHz - 44 kHz .....	ICB	ICB	1LO++

(C) Optional Features and Functions

Multiplexing

(1) Mastergroup to Supergroup, per arrangement .....	ICB	None	MQ9++
(2) Supergroup to Group, per arrangement .....	ICB	None	MQS++
(3) Group to Voice, per arrangement ....	ICB	None	MQV++
(4) Group to DS1*, per arrangement .....	ICB	None	MQG++

\* Requires two 60-108 kHz channel terminations and channel mileage, one 1.544 Mbps channel mileage and either a 1.544 Mbps channel termination or a DS1 to voice multiplexing optional feature, depending on whether the service terminates at a customer's premises or was purchased as a facility to a Telephone Company hub for multiplexing to voice grade.

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.7 Wideband Data Service

(A) Channel Termination, per point of termination

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>USOC</u>
19.2 or 18.75 kbps .....	ICB	ICB	TWT++
50.0 or 40.8 kbps .....	ICB	ICB	TWT++
230.4 kbps .....	ICB	ICB	TWT++

(B) Channel Mileage

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
19.2 or 18.75 kbps .....	ICB	ICB	1LO++
50.0 or 40.8 kbps .....	ICB	ICB	1LO++
230.4 kbps .....	ICB	ICB	1LO++

(C) Optional Features and Functions

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	
Key-activated Transfer Arrangement, per four-port arrangement including control channel termination* .....	ICB	ICB	UTK++

(D) 303 Data Station, per point of  
termination where provided .....

	ICB	ICB	TDQ++
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7.5.8 Digital Data Service

(A) Channel Termination, per point of  
termination

2.4 kbps .....	ICB	ICB	T6ECS
4.8 kbps .....	ICB	ICB	T6ECS
9.6 kbps .....	ICB	ICB	T6ECS
56 kbps .....	ICB	ICB	T6ECS

(B) Channel Mileage

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
2.4 kbps .....	ICB	ICB	1L5XX
4.8 kbps .....	ICB	ICB	1L5XX
9.6 kbps .....	ICB	ICB	1L5XX
56 kbps .....	ICB	ICB	1L5XX

\* The key-activated control channel is rated as a metallic channel termination and channel mileage.

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7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(C) Optional Features and Functions	<u>Per Month</u>	<u>USOC</u>
(1) Bridging, per port .....	ICB	BCNDA
(2) Loop Transfer Arrangement (key-activated* or dial-up†), per four-port arrangement# .....	ICB	XTD

7.5.9 High Capacity Service

(A) Channel Termination, per point of termination

	<u>Nonrecurring Charge</u>	<u>Per Month</u>	<u>USOC</u>
1.544 Mbps .....	ICB	ICB	TMECS
3.152 Mbps .....	ICB	ICB	TWT++
6.312 Mbps .....	ICB	ICB	TWT++
44.736 Mbps .....	ICB	ICB	TWT++
274.176 Mbps .....	ICB	ICB	TWT++

(B) Channel Mileage

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
64 kbps .....	ICB	ICB	1L5TS
1.544 Mbps .....	ICB	ICB	1L5TS
3.152 Mbps .....	ICB	ICB	1LO++
6.312 Mbps .....	ICB	ICB	1LO++
44.736 Mbps .....	ICB	ICB	1LO++
274.176 Mbps .....	ICB	ICB	1LO++

\* The key-activated control channel is rated as a metallic channel termination and mileage, if applicable.

† The dial-up option requires the customer to purchase the controller arrangement from Section 13, paragraph 13.3.8 following.

# An additional Channel Termination Charge will apply whenever a spare channel is configured as a leg to the customer's premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer-premises serving wire center.

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7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Optional Features and Functions

	Per Month	USOC
(1) Multiplexing		
DS4 to DS1, per arrangement .....	ICB	MXA++
DS3 to DS1, per arrangement .....	ICB	MXB++
DS2 to DS1, per arrangement .....	ICB	MXD++
DS1C to DS1, per arrangement .....	ICB	MXH++
DS1 to Voice*, per arrangement .....	ICB	MQ1
DS1 TO DS0, per arrangement .....	ICB	QMU
DS0 to Subrates, per arrangement		
Up to 20 2.4 kbps services .....	ICB	QSU24
Up to 10 4.8 kbps services .....	ICB	QSU48
Up to 5 9.6 kbps services .....	ICB	QSU96
(2) Automatic Loop Transfer, per arrangement†† ...	ICB	T59
(3) Transfer Arrangement (key-activated† or dial-up#), per four-port arrangement including control channel termination** .....	ICB	USV

7.5.10 Special Access Surcharge

Per voice equivalent channel.....	\$25.00	S25
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\* A channel of this DS1 to the hub can be used for a Digital Data Service.

† The key-activated control channel is rated as a metallic channel termination and channel mileage, if applicable. T6EME  
1L5MX

# The dial-up option requires the customer to purchase the controller arrangement specified in Section 13, paragraph 13.3.8 of this tariff. XTDDU

\*\* An additional Channel Termination Charge will apply whenever a spare channel is provided as a leg to the customer's premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

†† An additional Channel Termination Charge will apply whenever the spare line is provided as a leg to the customer's premises.

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.11 Voice Grade Rate Stability

Per  
Month      USOC

The rates shown below are those applicable to participating Voice Grade Rate Stability Plan customers for four-wire voice grade services beginning March 18, 1989.

(1) Four-wire Channel Termination,  
per point of termination ..... \$57.08      TUTR4

Per Month  
Fixed      Per Mile

(2) Channel Mileage ..... \$8.55      \$5.20      1U5RS

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DIRECTORY ASSISTANCE SERVICE

The Telephone Company will provide Directory Assistance (DA) Service to customers from Directory Assistance Service locations (DA location).

9.1 General Description

DA Service provides Directory Access Service to DA locations, use of DA access equipment, and use of DA operators to provide telephone numbers.

9.2 Undertaking of the Telephone Company

- (A) A Telephone Company DA operator, when furnished a name and locality, will provide or attempt to provide the telephone number listed in the Telephone Company DA records associated with the name given at the rates and charges as set forth in 9.6 following. The Telephone Company's contact with the customer's end user shall be limited to that effort necessary to process a customer's end user's request for a telephone number; and the Telephone Company will not transfer, forward or redial a customer's end user call to any other location for any purpose other than provision of DA Service.
- (B) A maximum of two requests for telephone numbers will be accepted per call to the DA operator.
- (C) A telephone number which is not listed in DA records will not be available to the customer's end user.
- (D) The Telephone Company will specify the DA location which provides the DA Service for each numbering plan area code (NPA).

When it becomes necessary, as determined by the Telephone Company, to change a DA location, the Telephone Company will notify the involved customers six months prior to the change. For such changes, the regulations as set forth in 2.1.7 preceding apply.

- (E) When DA Service is ordered, Directory Access Service will be provided between the customer premises and the DA location by the Telephone Company at rates and charges as set forth in 9.6 following, as follows.

(1) General

Each Directory Access Service will consist of the following:

A Switched Access Service equipped with one of the following Switched Access Service Local Transport Premises Interface codes:

4DS9-15	4DS6-44	6EA2-M	2RV3-0	4AH6-C
4DS9-31	4DS6-27	6EA2-B	4RV2-0	4AH6-D
4DS0-63	6EA2-E	4SF3	4AH5-B	

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DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company (Cont'd)

(E) (Cont'd)

(1) General (Cont'd)

Directory Transport between the premises of the ordering customer and the DA location.

When required by the Telephone Company, a separate trunk group will be provided for DA Service for each NPA. Separate trunk groups will be required when the Telephone Company notifies the customer that the mechanized search of its data base and its mechanized operator practices require a mechanized identification of the NPA code for which the customer's end user desires DA information.

(2) Local Transport Premises Interface Code

The Switched Access Service Local Transport Premises Interface Codes are provided as set forth in Section 6 preceding. Further, when an access tandem is provided, the Directory Access Service will be provided, at Telephone Company choice, either as a separate trunk group or in association with Trunkside BSA-MTS/WATS Option, Trunkside 101XXXX Option or Feature Group D Switched Access Service. Except as set forth in 9.4(A) following, Local Transport Premises Interface Codes provided under a Special Order for Directory Access Service are subject to the order conditions as set forth in Section 5 preceding. For purposes of applying the order regulations, a DA location is considered to be a customer end user serving wire center.

(3) Directory Transport

Directory Transport provides the transmission facilities and transport termination between the premises of the ordering customer and the DA location. For purposes of determining Directory Transport mileage, distance will be measured from the wire center that normally serves the customer premises to the DA location(s).

Directory Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency path transports calls in the terminating direction (from the premises of the ordering customer to the DA location). The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency band width of approximately 300 to 3000 Hz.

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DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company (Cont'd)

(E) (Cont'd)

(3) Directory Transport (Cont'd)

The Telephone Company will determine whether the Directory Access Service is to be routed directly to a DA location or through an appropriately equipped access tandem switch when such an access tandem switch is available. If the customer desires the traffic routing to be other than that selected by the Telephone Company, it may request a cooperative effort to determine if customer-specified traffic routing can be used in lieu of the Telephone Company-selected traffic routing.

When Directory Transport is provided using a direct route to the DA location, no address signaling is provided. When Directory Transport is provided with the use of an access tandem switch, wink start start-pulsing signaling is provided at the access tandem switch. The customer will be notified by the Telephone Company when access tandem routing is provided and the customer shall address each call to the DA location using NPA + 555 + 1212. Only NPA codes handled by the DA location served by the access tandem switch will be processed.

The number of Directory Transport transmission paths provided is based on the customer's order and is determined by the Telephone Company in a manner similar to Switched Access Service transmission paths as set forth in 6.6.5 preceding.

Directory Transport may, at the option of the customer, be provided for both interstate and intrastate communications. When the customer requests such mixed access, the intrastate Directory Transport charges will be determined by the Telephone Company using the data furnished by the customer as set forth in 2.3.10 preceding.

Except as set forth in 9.4(A) following, Directory Transport provided under a Special Order is subject to the order conditions as set forth in Section 5 preceding.

Directory Transport is provided with one of the Local Transport Interface Groups as set forth in 6.1.2(A) preceding.

(4) Special Facilities Routing

A customer may request that Directory Access Service be provided via Special Facilities Routing. The regulations, rates and charges for Special Facility Routing (Avoidance, Diversity and Cable-only) are as set forth in Section 11 following.

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company (Cont'd)

(E) (Cont'd)

(5) Design Layout Report

The Telephone Company will provide to the customer the makeup of the facilities and services provided under this section as Directory Access Service. This information will be provided in the form of a Design Layout Report similar to that as set forth in 6.1.4. Design Layout Reports for Directory Access Service will be provided only when specifically requested by the customer. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

(6) Transmission Specifications

Directory Access Service is provided with either Type A, B or C Transmission Specifications. The specifications associated with the parameters are guaranteed to the DA location, whether routed directly or via an access tandem. Type C Transmission Specification is provided with Interface Group 1 when routed direct to a DA location. Type B Transmission Specification is provided with Interface Groups 2 through 10 when routed direct to a DA location. Type A Transmission Specification is provided with Interface Groups 2 through 10 when routed via an access tandem.

Type A, B and C Transmission Specifications Capabilities are set forth in 6.5.1 preceding.

(7) Acceptance Testing and Testing Capabilities

The acceptance testing and testing capabilities for Directory Access Service traffic routed through an access tandem are the same as those for the associated Trunkside MTS/WATS Option, Trunkside BSA-101XXXX Option or Feature Group D end office switching. The acceptance testing for Directory Access Service traffic routed directly to or routed in a separate trunk group through an access tandem to the DA location will be as set forth in 6.1.5 preceding. The testing capabilities for Directory Access Service traffic routed directly to or routed in a separate trunk group through an access tandem to the DA location will be as set forth for cooperative scheduled testing or manual scheduled testing in Section 13 following.

(F) Trunk side switching is provided at the DA Service access location. The DA Service access location will provide trunk answer and disconnect supervisory signaling.

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DIRECTORY ASSISTANCE SERVICE

9.2 Undertaking of the Telephone Company (Cont'd)

- (G) The Telephone Company will distribute the calls received over the Directory Access Services to the DA operators using the DA location access equipment.
- (H) In the event that the telephone number is unavailable to the DA operator, no credit applies for the charge for the call to the DA operator. When the DA location or DA operator equipment or terminals are out of service due to a Telephone Company equipment failure or an incorrect number is provided, a credit as set forth in 9.4(H) following will apply.
- (I) DA Service may, at the option of the customer, be provided for interstate and intrastate communications. When the customer requests such mixed access, the intrastate DA Service charges will be determined by the Telephone Company using the data furnished by the customer as set forth in 2.3.10 preceding.

9.3 Obligations of the Customer

- (A) The customer shall determine and order the busy hour minutes of capacity and interface type of Directory Access Services it needs for DA Service.
- (B) When DA Service is initially ordered, the customer shall order the service for at least six months. Thereafter, additional service may be ordered for a minimum of six months. Not later than three months prior to the end of the six-month period, the customer shall notify the Telephone Company if the service is to be discontinued at the end of the six-month period. If no notice is received from the customer, the Telephone Company will automatically extend the service for another six months, and all appropriate charges as set forth in 9.6 following for another six months will apply.
- (C) The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.
- (D) When requested by the Telephone Company, the customer shall order a separate trunk group for DA Service for each NPA. The conditions when the customer will be requested to order a separate trunk group for each NPA are set forth in 9.2(E)(1) preceding.
- (E) When customers bill their end users, the customers shall be responsible for all contacts and arrangements with their end users concerning the provision and maintenance of, and the billing and collecting of charges, for DA services furnished to their end users.

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DIRECTORY ASSISTANCE SERVICE

9.3 Obligations of the Customer (Cont'd)

- (F) The customer understands that DA Operators will respond to only two telephone number requests per call and will not transfer, forward or redial the call to another location for any purpose other than the provision of DA Service.

9.4 Payment Arrangements

(A) Minimum Periods

The minimum period for which DA Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

If DA Service is discontinued prior to the end of each six month period, the charges that apply for the remaining months are the nonrecoverable costs. Such costs include the nonrecoverable cost of equipment and material ordered, provided or used, plus the non-recoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, rights-of-way and other associated costs less estimated net salvage.

(B) Minimum Monthly Charge

DA service is subject to a minimum monthly charge. The minimum monthly charge consists of the following elements.

The minimum monthly charge for Directory Assistance Service calls is the charge as set forth in 9.6 following for the actual usage for the month.

For the Directory Transport rate element, the minimum monthly charge is assessed in terms of a Minimum Monthly Usage Charge (MMUC). If the Directory Transport usage charges based on the actual usage for the month are greater than the MMUC, the customer will be assessed the usage charges based on actual usage. If the Directory Transport usage charges based on the actual usage for the month are lower than the MMUC, the customer will be assessed the MMUC charge. The MMUC is determined as set forth in (C) following. Rates for actual usage are set forth in 9.6 following.

(C) Minimum Monthly Usage Charge (MMUC)

The Minimum Monthly Usage Charge (MMUC) for Directory Transport is a distance sensitive charge that varies by mileage band and Directory Assistance Service busy hour minutes of capacity (BHMC) provided for the customer's use to the DA location.

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DIRECTORY ASSISTANCE SERVICE

9.4 Payment Arrangements (Cont'd)

(C) Minimum Monthly Usage Charge (MMUC) (Cont'd)

MMUC per mileage band equals the Minimum Directory Transport charge per BHMC times the BHMC provided.

The Minimum Directory Transport charge per BHMC is as follows:

<u>Mileage Band</u>	<u>Minimum Directory Transport Charge per BHMC*</u>
0 to 10.....	\$ .3600
11 to 22.....	1.4900
Over 22.....	3.0700

\* BHMC is the Directory Assistance Service busy hour minutes of capacity provided for the customer's use to the DA location.

(D) Cancellation of a Special Order

A customer may cancel a Special Order for DA Service 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 Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days.

When a customer cancels a Special Order for DA Service after the order date but prior to the start of service, the appropriate charges as set forth in Section 5 preceding apply for the Directory Access Service cancelled. In addition, a charge equal to any unrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(E) Changes to Special Orders

When a customer requests changes to a pending order for DA Service, such changes will be undertaken if they can be accommodated by the Telephone Company. The appropriate charges as set forth in Section 5 preceding apply for the Directory Access Service changed. In addition, a charge equal to any other costs incurred by the Telephone Company because of the change will apply.

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DIRECTORY ASSISTANCE SERVICE

9.4 Payment Arrangements (Cont'd)

(F) Moves

A move involves a change in the physical location of the point of termination at the customer premises or of the customer premises. Moves will be treated as set forth in 6.8.5 preceding and all associated nonrecurring charges will apply. Minimum period requirements will be established at the new location as set forth in 6.8.5 preceding. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

(G) DA Service Rearrangements

Nonrecurring charges apply for service rearrangements. Service rearrangements are as set forth in 6.8.1(C)(2) preceding. The Service Rearrangement Charges are as set forth in 6.8.1(C)(2) for the type of change provided by the Telephone Company.

(H) Credit Allowance for DA Service

- (1) When the DA location or DA operator equipment or terminals are out of service due to a Telephone Company equipment failure or an incorrect number is provided and a customer DA call has been answered or forwarded to a DA operator, a credit allowance for a call answered or forwarded to the DA operator equal to the rate for a Directory Assistance Service Call as set forth in 9.6 following plus the rate for a Directory Transport call will be applied to the customer's charges. The rate for a Directory Transport call will be the average of the Directory Transport rates per call as set forth in 9.6 following.
- (2) In addition to the credit as set forth in (1) preceding, when a DA operator or DA equipment provides an incorrect number for a call and the customer reports such occurrences to the Telephone Company, a credit allowance for such DA call will apply. The credit will be as set forth in (3) following. When the customer reports such a call and the number requested, the number provided and the reason the number provided is incorrect, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer.

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DIRECTORY ASSISTANCE SERVICE

9.4 Payment Arrangements (Cont'd)

(H) Credit Allowance for DA Service (Cont'd)

(3) When a DA call is not completed due to the failure of Directory Access Service to DA locations, DA access equipment or DA operator activities, a credit allowance for the Switched Access Service portion in the originating LATA of such DA call will apply. When the customer reports such a call and DA number dialed, time of the call and the date of the call, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer. The credit will be as set forth following:

- (a) Credit per call, when Switched Access Service is billed using monthly rates ..... \$.0173
- (b) Credit per call when Lineside BSA, Trunkside BSA-950 Option, Feature Group A and/or B Switched Access Service is billed using per-minute rates ..... \$.0366
- (c) Credit per call, when Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option or Feature Group D Switched Access Service is billed using per-minute rates ..... \$.0384

(4) Credit allowances for other service interruptions will be provided as set forth in 2.4.4 preceding.

9.5 Rate Regulations

- (A) The Directory Assistance service call charge, as set forth in 9.6(A) following, applies for each call to DA Service. A call is a call which has been answered by or forwarded to a DA operator. The charge applies whether or not the DA operator provides the requested telephone number. The number of calls answered or forwarded to DA operators will be accumulated by Telephone Company measuring equipment. A credit for the provision of an incorrect telephone number will be applied as set forth in 9.4(H) preceding.
- (B) The mileage for Directory Transport is measured from the serving wire center for the premises of the ordering customer to the DA location. Title page notwithstanding, these two wire centers may be in different LATAs. In addition, the premises of the ordering customer must be in the LATA where DA service is requested or in the LATA where the DA location is located. The measurement will be performed as set forth in 6.8.11 preceding.

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DIRECTORY ASSISTANCE SERVICE

9.5 Rate Regulations (Cont'd)

(C) The charge per call for Directory Transport, as set forth in 9.6(B) following, applies for each call to DA service. A call is as set forth in (A) preceding. The number of calls will be accumulated as set forth in (A) preceding.

9.6 Rates and Charges

The rates and charges are:

	<u>Rates</u>
(A) Directory Assistance Service call, each.....	\$.25

(B) Directory Access Service

Directory Access, Installation Charge.....	Charges are the same as those set forth in 6.9.1 preceding.
--	---

Directory Transport

	<u>Rate Per Minute of Use</u>	
Tandem		
Fixed .....	\$ 0.000000	(R)
Per Mile .....	0.000011	(I)
Switching .....	0.000417	(R)
		(D)

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.1 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.

10.2 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.

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

10.3 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 5.2.1(B) preceding.

10.4 Safeguarding of Service

10.4.1 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.

10.5 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 who obtain services under the provisions of this tariff to provide their service to the Federal Government.

10.6 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.

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

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

10.6.1 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 two customer premises. Services are conditioned as follows:

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

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)

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 communication between two customer premises. Services are conditioned as follows:

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

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

10.6.1 Type and Description (Cont'd)

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

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

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(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 communication between a customer's premises switch and a customer's premises. Services are conditioned as follows:

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

(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 customer premises switches. Services are conditioned as follows:

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

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

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

10.6.1 Type and Description (Cont'd)

(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.

(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.

10.6.2 Mileage Application

Mileage, when used for rate application between two customer designated premises, shall be determined by the V and H Coordinates Method and administered as set forth in 7.4.5 preceding.

10.6.3 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 narrow-band 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.

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

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

10.6.3 Rates and Charges (Cont'd)

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

<u>Voice Grade Secure Communications</u>		<u>USOC</u>
Type I, each		
T-3 Conditioning .....	ICB rates and charges apply	GCA++
Additional Conditioning, per service termination ....	ICB rates and charges apply	GTO++
Type II, each		
G-1 Conditioning .....	ICB rates and charges apply	GCB++
Type III, each		
G-2 Conditioning .....	ICB rates and charges apply	GCC++
Additional Conditioning, per service termination ....	ICB rates and charges apply	G20++
Type IV, each		
G-3 Conditioning .....	ICB rates and charges apply	GCD++
Additional Conditioning, per service termination ....	ICB rates and charges apply	G30++

(B) Wideband Digital Special Access Service

<u>Wideband Secure Communications</u>		
Type I, each .....	ICB rates and charges apply	GW1++
Type II, each .....	ICB rates and charges apply	GW2++
Type III, each .....	ICB rates and charges apply	GW3++

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SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES

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

10.6.3 Rates and Charges (Cont'd)

(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.
- (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 a 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.

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.

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SPECIAL FACILITIES ROUTING OF ACCESS SERVICES

11.1 Description of Special Facilities Routing of Access Services

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more services must be provided over not more than two different physical routes.

11.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

11.1.3 Cable-only Facilities

Certain Voice Grade services are provided on Cable-only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-only Facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6 preceding; Narrowband, Voice Grade and Wideband Analog Special Access Services as set forth in 7.2.1 and 7.2.2 preceding; and Special Federal Government Access Services as set forth in 10.6 preceding. Cable-only Facilities are available for Switched Access Service as set forth in Section 6 preceding; Voice Grade Special Access Services as set forth in 7.2.2 preceding; and Special Federal Government Access Services as set forth in 10.6 preceding.

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services as set forth in 11.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

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SPECIAL FACILITIES ROUTING OF ACCESS SERVICES

11.2 Rates and Charges for Special Facilities Routing of Access Service

The rates and charges for Special Facilities Routing of Access Services are as follows:

11.2.1 Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an Individual Case Basis and filed following:

USOC

SYD++

11.2.2 Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an Individual Case Basis and filed following:

USOC

SYA++

11.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an Individual Case Basis and filed following:

USOC

SYB++

11.2.4 Cable-only Facilities

For each service provided in accordance with 11.1.3 preceding, the rates and charges will be developed on an Individual Case Basis and filed following:

USOC

SYC++

SPECIALIZED SERVICE OR ARRANGEMENTS

12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an Individual Case Basis if such service or arrangements meet the following criteria:

The requested service or arrangements are not offered under other sections of this tariff.

The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.

The requested service or arrangements are provided within a LATA.

The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.

This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

12.2 Rates and Charges

Rates and charges and additional regulations if applicable, for specialized service or arrangements provided on an Individual Case Basis are filed following:

None

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

In this section normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 7:00 AM to 4:00 PM) for the application of rates based on working hours.

13.1 Additional Engineering

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

- (A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 6.1.4 and 7.1.6 preceding.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.1 preceding.

The Telephone Company will notify the customer that additional engineering charges, as set forth in 13.1.1 following, will apply before any additional engineering is undertaken.

13.1.1 Charges For Additional Engineering

The charges for additional engineering are as follows:

Additional Engineering Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof	USOC
(A) Basic Time, normally scheduled working hours, per engineer .....	\$35.47	\$35.47	AEH
(B) Overtime, outside of normally scheduled working hours, per engineer .....	39.37	39.37	AEH

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.2 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 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 13.2.6 following will apply before any additional labor is undertaken.

13.2.1 Overtime Installation

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

13.2.2 Overtime Repair

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

13.2.3 Stand by

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

13.2.4 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.

13.2.5 Other Labor

Other Labor is that additional labor not included in 13.2.1 through 13.2.4 preceding, including, but not limited to labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor

Additional Labor Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof	USOC
(A) Installation or Repair			
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	\$42.50	\$ 2.53	ALH
Premium Time, outside of scheduled work day, per technician*.....	45.03	5.06	ALH
(B) Stand by			
Basic time, normally scheduled working-hours, per technician.....	None	20.06	ALT
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	None	22.59	ALT
Premium Time, outside of scheduled work day, per technician*.....	None	25.12	ALT

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor (Cont'd)

Additional Labor Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof	USOC
(C) Testing and Maintenance with other Telephone Companies, or other labor			
Basic Time, normally scheduled working hours, per technician.....	\$60.03	\$20.06	ALK
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	62.56	22.59	ALK
Premium Time, outside of scheduled work day, per technician*.....	65.09	25.12	ALK

13.3 Miscellaneous Services

13.3.1 Maintenance of Service

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

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.1 Maintenance of Service (Cont'd)

(B) The customer shall be responsible for payment of a Maintenance of Service Charge when the Telephone Company dispatches personnel to the customer's premises and the trouble is in equipment or communications systems provided by other than the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

(C) The charges for Maintenance of Service are as follows:

Maintenance of Service Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof	USOC
Basic Time, normally scheduled working hours, per technician .....	\$20.06	\$20.06	MVV
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician* .....	22.59	22.59	MVV
Premium Time, outside of scheduled work day, per technician* .....	25.12	25.12	MVV

13.3.2 Presubscription

(A) Presubscription is an arrangement whereby an end user may select and designate to the Telephone Company an IC to access, without an access code, for interLATA long distance calls.

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.2 Presubscription (Cont'd)

(B) Presubscription is furnished in accordance with the provisions of the Federal Communications Commission's Allocation Plan, the regulations, rates and charges for which are specified in the Verizon Telephone Companies' Tariff F.C.C. No. 1.

13.3.3 Standard Jacks - Registration Program

Standard jacks are provided by the Telephone Company to connect Registered Equipment to those services that are subject to the Registration Program as set forth in 2.5 preceding. The use of jacks is covered in Part 68 of the F.C.C.'s Rules and Regulations. Specific jacks are described in the document on file with the F.C.C. entitled "Descriptions of Standard Registration Connection Configurations Supplementing Configurations Described in Subpart F of Part 68 of the F.C.C.'s Rules and Regulations."

These jacks are used to terminate services provided by the Telephone Company. Other services or facilities provided by the Telephone Company or by others may also be terminated in any spare capacity of the jacks remaining after installation without additional charge for the use of such capacity.

The nonrecurring charges, which include installation for standard jacks and their typical uses are set forth following:

(A) Standard Voice Jacks	<u>Nonrecurring Charges</u>	<u>USOC</u>
(1) Miniature Six-position Jacks for connection of terminal equip- ment as follows:		
(a) Single-line tele- phone surface or flush mount .....	\$10.00	RJ11C
(b) Single-line telephone wall mounted .....	10.00	RJ11W
(c) Two-line nonbutton telephone surface or flush mounted .....	10.00	RJ14C

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)	<u>Nonrecurring Charges</u>	<u>USOC</u>
(1) (Cont'd)		
(d) Two-line nonbutton telephone wall mounted .....	\$ 10.00	RJ14W
(e) 9DB single-line data equipment with mode indication and mode indication common leads, (This jack is normally used in association with a series jack) .....	10.00	RJ16X
(2) 50-Position Miniature Ribbon for connection of multiline termi- nating equipment and channel derivation devices as follows:		
(a) For connection to 2-wire tie trunks E&M type I signaling (12-line capacity) .....	160.00	RJ2EX
(b) For connection to 4-wire tie trunks E&M type I signaling (8-line capacity) .....	160.00	RJ2GX
(c) For connection to 2-wire tie trunks E&M type II signaling (8-line capacity) .....	160.00	RJ2FX

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(A) Standard Voice Jacks (Cont'd)	<u>Nonrecurring Charges</u>	<u>USOC</u>
(2) (Cont'd)		
(d) For connection to 4-wire tie trunks E&M type II signaling (6-line capacity) .....	\$160.00	RJ2HZ
(e) For connection to off-premises station lines (25-line capacity) .....	160.00	RJ21X
(f) For connection of up to 12-line bridged 4-wire exchange 2/RT, T1/R1 .....	100.00	RJ2DX
(3) Series Jacks for connection of terminal equipment as follows:		
(a) Single-line alarm reporting devices .....	66.00	RJ31X
(b) Series ancillary devices such as automatic dialers. Single-line telephones with exclusion .....	66.00	RJ32X
(c) Two-line telephone with exclusion on one line .....	66.00	RJ37X

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(B) Standard Data Jacks	<u>Nonrecurring Charges</u>	<u>USOC</u>
(1) Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment (1-line capacity).....	\$ 69.00	RJ41S
(2) Programmed Data Jack for use in connecting programmed data equipment (1-line capacity).....	65.00	RJ45S
(3) Miniature Eight-position Keyed Jack for connection of local area data channels and/or Digital Data Access Service.....	31.00	RJ48S
(4) Miniature Fifty-position Ribbon Jack for connection of local area data channels and/or Digital Data Access Services.....	31.00	RJ48T
(5) Multiple Line Universal Data Jack for use in connecting fixed loss loop (FLL) and programmed (P) types of data equipment, (This jack will terminate up to eight lines. The selection of this jack requires the use of the equipment listed following).....	50.00	RJ26X
(a) Multiple Line Universal Data Jack Circuit Cards, for use with RJ26X, one circuit card per circuit required .....	79.00	RJ26S

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.3 Standard Jacks - Registration Program (Cont'd)

(B) Standard Data Jacks (Cont'd)	<u>Nonrecurring Charges</u>	<u>USOC</u>
(5) (Cont'd)		
(b) Multiple Line Universal Data Jack Mounting options, for use with RJ26X, one required per RJ26X		
Wall Mounting with cover .....	\$45.00	RJM3X
Rack Mounting (19-inch or 23-inch) .....	28.00	RJM4X

13.3.4 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in (C) following. Other testing services provided by the Telephone Company in association with Access Services are furnished at no additional charge. These other testing services are described in 6.1.5 and 7.1.7 preceding.

Testing services are normally provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in (A)(5) and (B)(2) following for a customer to request Telephone Company personnel to perform testing services at the customer's premises.

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

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, and (b) tests which are performed after acceptance of such access services by a customer, i.e., in-service tests. These in-service tests may be further divided into two broad categories of tests: scheduled and nonscheduled.

Scheduled tests are those tests performed by the Telephone Company on a regular basis, e.g., monthly, which result in the measurement of Switched Access Service. Scheduled tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a cooperative basis (Telephone Company technician(s) involved at Telephone Company office(s) and customer technician(s) involved at customer's premises) or a manual basis (Telephone Company technician(s) involved at Telephone Company office(s) and at customer's premises).

Nonscheduled tests are performed by the Telephone Company "on demand," which result in the measurement of Switched Access Services. Nonscheduled tests may involve Telephone Company technicians at Telephone Company offices and at the customer's premises.

(1) Additional Cooperative Acceptance Testing

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

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

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

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Reserved for Future Use

(3) Cooperative Scheduled Testing

Cooperative Scheduled Testing (CST) of Switched Access Services (Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, Feature Groups B and D and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and the customer provides a technician at its premises, with suitable test equipment to perform the required tests, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance measurements, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

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

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(4) Manual Scheduled Testing

Manual Scheduled Testing (MST) of Switched Access Services (Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option, Trunkside BSA-101XXXX Option, Feature Groups B and D and Directory Access Service not routed through an access tandem), where the Telephone Company provides a technician at its office(s) and at the customer's premises, will consist of quarterly loss and C-message noise tests, and annual balance tests. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

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

(5) Nonscheduled Testing

Nonscheduled Testing (NST) of Switched Access Services is where:

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 premises, with suitable test equipment to perform the required tests ("cooperative testing"), or

the Telephone Company provides a technician at its office(s), and/or at the customer's premises with suitable test equipment to perform the required tests ("manual testing").

Nonscheduled Tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(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 13.3.4(A)(2) preceding or NST as set forth in 13.3.4(A)(5) preceding.

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

(B) Special Access Service

The Telephone Company will, at the request of a customer, provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing (ACAT)

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user's premises. These tests may consist of the following:

Attenuation Distortion (i.e., frequency response)  
Intermodulation Distortion (i.e., harmonic distortion)  
Phase Jitter  
Impulse Noise  
Envelope Delay Distortion  
Echo Control  
Frequency Shift

(2) Nonscheduled Testing (NST)

When a customer provides a technician at its premises with suitable test equipment to perform the required tests, the Telephone Company will provide a technician at its office

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13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(B) Special Access Service (Cont'd)

(2) Nonscheduled Testing (NST) (Cont'd)

for the purpose of conducting Nonscheduled Testing. At the customer's request, the Telephone Company will provide a technician at the customer's premises. Nonscheduled tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require.

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

(C) Rates and Charges

(1) Switched Access

(a) Additional Cooperative Acceptance Testing (ACAT)

Testing Periods	First Half Hour or Fraction Thereof	Each Additional Half Hour or Fraction Thereof	USOC
Basic Time, normally scheduled working hours, per technician.....	\$20.06	\$20.06	UBCX+
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician*.....	22.59	22.59	UBCX+
Premium Time, outside of scheduled work day, per technician*.....	25.12	25.12	UBCX+

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Reserved for Future Use

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Reserved for Future Use

(c) Cooperative Scheduled Testing (CST)

The three tests as set forth in (I) following represent the minimum offering, i.e., an order for testing must, at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests

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13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(c) Cooperative Scheduled Testing (CST) (Cont'd)

as set forth in (II) following may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests 60 days prior to the start of the customer-prescribed schedule.

<u>To First Point of Switching</u>	<u>Monthly Rates</u>	<u>USOC</u>
(I) Basic Tests*		
1004 Hz Loss Tests performed within a one- year period, per test ordered, per trans- mission path .....	\$ 6.96	UBSX+
C-Message Noise Tests performed within a one- year period, per test ordered, per trans- mission path .....	3.46	UBSX+
Return Loss (Balance) Tests performed within a one- year period, per test ordered, per trans- mission path .....	13.88	UBSX+

\* Subject to a one-year minimum contract period, and annually thereafter.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(c) Cooperative Scheduled Testing (CST) (Cont'd)

<u>To First Point of Switching</u>	<u>Monthly Rates</u>	<u>USOC</u>
--	--------------------------	-------------

(II) Additional Tests

Gain-Slope Tests performed within a one-year period, per test ordered, per transmission path .....	\$6.96	UBSX+
--	--------	-------

C-Notched Noise Tests performed within a one-year period, per test ordered, per transmission path .....	5.54	UBSX+
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(III) Example

A customer schedules 6 1004 Hz Loss Tests, 6 C-Message Noise Tests and 4 Return Loss Tests on one trunk for a year. The charges will be computed as follows:

6 x \$ 6.96 =	\$41.76
+ 6 x 3.46 =	20.76
+ 4 x 13.88 =	<u>55.52</u>
	\$118.04 per month, per trunk

(d) Manual Scheduled Testing (MST)

The three tests as set forth in (I) following represent the minimum offering, i.e., an order for testing must at a minimum, consist of four 1004 Hz Loss Tests per transmission path, four C-Message Noise Tests per transmission path and one Return Loss (Balance) Test per transmission path, per year. The Additional Tests

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(d) Manual Scheduled Testing (MST) (Cont'd)

as set forth in (II) following may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The customer also may specify a more frequent schedule of tests, 60 days prior to the start of the customer-prescribed schedule.

<u>To First Point of Switching</u>	<u>Monthly Rates</u>	<u>USOC</u>
(I) Basic Tests*		
1004 Hz Loss Tests performed within a one-year period, per test ordered, per transmission path .....	\$17.59	UBMX+
C-Message Noise Tests performed within a one-year period, per test ordered, per transmission path .....	10.59	UBMX+
Return Loss (Balance) Tests performed within a one-year period, per test ordered, per transmission path .....	31.47	UBMX+

\* Subject to a one-year minimum contract period, and annually thereafter.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(d) Manual Scheduled Testing (MST) (Cont'd)

<u>To First Point of Switching</u>	<u>Monthly Rates</u>	<u>USOC</u>
--	--------------------------	-------------

(II) Additional Tests

Gain-Slope Tests performed within a one-year period, per test ordered, per transmission path .....	\$17.59	UBMX+
--	---------	-------

C-Notched Noise Test performed within a one-year period, per test ordered, per transmission path .....	14.75	UBMX+
--	-------	-------

(III) Example

See (c)(III) preceding.

(e) Nonscheduled Testing (NST)

Automatic Testing:

<u>To First Point of Switching</u>	<u>Nonrecurring Charge</u>	
1004 Hz Loss, per test performed .....	\$ .62	USCX+
C-Message Noise, per test performed .....	.62	USCX+
Return Loss (Balance), per test performed .....	.62	USCX+

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST) (Cont'd)

Automatic Testing: (Cont'd)

<u>To First Point of Switching</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
Gain-Slope, per test performed .....	\$ .62	USCX+
C-Notched Noise, per test performed .....	.62	USCX+

Cooperative Testing:

<u>Testing Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>	
Basic Time, normally scheduled working hours, per technician .....	\$20.06	\$20.06	USS
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician* ....	22.59	22.59	USS
Premium Time, outside scheduled work day, per technician* .....	25.12	25.12	USS

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(e) Nonscheduled Testing (NST) (Cont'd)

Manual Testing:

<u>Testing Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>	<u>USOC</u>
Basic Time, normally scheduled working hours, per technician .....	\$20.06	\$20.06	USM
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician* ....	22.59	22.59	USM
Premium Time, outside of scheduled work day, per technician* .....	25.12	25.12	USM

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(2) Special Access

(a) Additional Cooperative Acceptance Testing (ACAT)

<u>Testing Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>	<u>USOC</u>
Basic Time, normally scheduled working hours, per technician .....	\$20.06	\$20.06	SNT
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician* ....	22.59	22.59	SNT
Premium Time, outside of scheduled work day, per technician* .....	25.12	25.12	SNT

(b) Nonscheduled Testing (NST)

<u>Testing Periods</u>			
Basic Time, normally scheduled working hours, per technician .....	20.06	20.06	SNO

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.4 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(2) Special Access (Cont'd)

(b) Nonscheduled Testing (NST) (Cont'd)

<u>Testing Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>	<u>USOC</u>
Overtime, outside of normally scheduled working hours, on a scheduled work day, per technician* . . . .	\$22.59	\$22.59	SNO
Premium Time, outside of scheduled work day, per technician* . . . . .	25.12	25.12	SNO

13.3.5 Provision of Access Service Billing Information

(A) The customer will receive its monthly bills in a standard paper format.

(B) At the option of the customer, and for an additional charge:

- (1) Customer monthly bills may be provided on magnetic tape.
- (2) Billing detail and/or information may be transmitted to the customer premises by data transmission.
- (3) Additional copies of the customer monthly bill or service and features record may be provided in standard paper or microfiche format.

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.5 Provision of Access Service Billing Information (Cont'd)

(C) Upon acceptance by the Telephone Company of an order for data transmission, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.

(D) The rates and charges for the provision of Access Service Billing Information are as follows:

	<u>Rates</u>	<u>FID</u>
(1) Provision of Standard Billing Detail and/or Information in magnetic tape format, per record, up to 225 bytes.....	\$.0105	DMT
(2) Data Transmission to a customer's premises of billing detail and/or information, per record transmitted.....	ICB rates and charges apply	BOD DT
(3) Additional Copies of the customer's monthly bill or service and features record in standard paper format, per page.....	.0013	NOB/NEL
Microfiche format, per page per microfiche record.....	.0001	BOD FH

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.6 Protective Connecting Arrangements

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13.3 Miscellaneous Services (Cont'd)

13.3.6 Protective Connecting Arrangements (Cont'd)

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13.3 Miscellaneous Services (Cont'd)

13.3.6 Protective Connecting Arrangements (Cont'd)

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.6 Protective Connecting Arrangements (Cont'd)

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

13.3.6 Protective Connecting Arrangements (Cont'd)

13.3.7 Miscellaneous Equipment

Controller Arrangement

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

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

	<u>Per</u> <u>Month</u>	<u>USOC</u>
Per Arrangement .....	\$163.72	XTDDU

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

(0)

(0)

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ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES

13.3 Miscellaneous Services (Cont'd)

(0)

(0)

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13.3 Miscellaneous Services (Cont'd)

(0)

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13.3 Miscellaneous Services (Cont'd)

(0)

(0)

Issued by authority of an Order of the Public Service Commission of West Virginia  
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PUBLIC DATA NETWORK SERVICE#(LA-3)

A. GENERAL

Public Data Network (PDN) Service provides network transport for data services. The service utilizes packet switching technology, where the data is divided into blocks - packets with a fixed maximum length, and digital transmission facilities to provide common user switched data transport. The PDN Service consists of packet switches, access concentrators with modems and analog and digital facilities which provide for simultaneous two-way transmission of data signals at various speeds. The Public Data Network Service connects customers (end users) to customers (information providers, end users and Interexchange Carriers) and other packet networks.

B. REGULATIONS

1. Explanation of Terms

Call Redirection

Call redirection allows the customer's virtual calls to be automatically forwarded to an alternate destination, if the original destination is busy, out of order or has requested systematic redirection. The number of redirects per call is limited to one. Call redirection is offered on a X.25 basis or on an asynchronous basis. Calls will not be redirected to an X.75 protocol.

Closed User Group

A closed user group is a specific group of data terminals which interconnect with each other. Each customer's channel may be associated with as many as ten closed user groups. Each data terminal in a closed user group can be arranged in one of the following modes.

Denial of Originating Calls\*

The data terminal makes outgoing calls only to the data terminals in the closed user group with which it is associated.

Denial of Terminating Calls\*

The data terminal receives incoming calls only from the data terminals in the closed user group with which it is associated.

\* Available with asynchronous and X.25 protocols only.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

1. Explanation of Terms (Cont'd)

Closed User Group (Cont'd)

Originating Access

The data terminal makes outgoing calls only.

Terminating Access\*

The data terminal receives incoming calls only.

Unrestricted Access\*

The data terminal receives and makes both incoming and outgoing calls.

Mnemonic Addresses

Mnemonic addresses allow the automatic translation of a three or four letter code-word, not including the period punctuation mark, into a data telephone number identifying the called address. This facility is available to a customer on packet switch access and direct access.

Monthly Detailed Connection File†

The monthly detailed connection file is a magnetic tape containing detailed call completion records associated with all customer channels within an account. This file is only available to the customer being billed for the service and contains all network usage.

Multiple Channel Hunt Group

Multiple channels can be arranged in a hunt group with a single network address. Terminating calls are distributed equally over the ports. Hunt groups can have a maximum of 64 circuits.

\* Available with asynchronous and X.25 protocols only.

† Available with X.25 and X.75 protocols only.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

1. Explanation of Terms (Cont'd)

Multiple Network Addresses\*

Customers may obtain for each direct or packet switch access connection, multiple network addresses to which calls can be delivered according to the customer's predetermined specifications.

Network Management Report

This is a feature which provides customer usage reports with call detail information in a paper format.

Network User Identification (NUI)

This is a feature that provides the PDN dial-up end user with the ability to log onto the Public Data Network by entering the end user's NUI and password. This allows for specific end user dial-up usage to be identified for billing and accounting purposes. The network can support up to 6,000 NUIs per access concentrator and the NUIs will be six-digit alphanumeric. NUI is not currently available to users accessing an X.75 connected host.

Packet Size Negotiation†

Provides the capability for a customer to transmit/receive two packets containing a maximum of 256 octets, eight bits each, of data. Default maximum packet size is 128 octets.

Permanent Virtual Circuit

Permanent virtual circuits allow direct and packet switch access customers to establish a dedicated path which provides a security/privacy feature between themselves and a specific location.

Throughput Class Negotiation†

This function permits negotiation on a per call basis of the throughput classes for each direction of data transmission.

\* Available with asynchronous and X.25 protocols only.

† Available with X.25 and X.75 protocols only.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

1. Explanation of Terms (Cont'd)

Window Size Negotiation\*

Provides the capability for a customer to transmit three packets of information without waiting for an acknowledgment from the packet switch to send additional packets. Default window size is two packets.

2. Customers access the Public Data Network Service in three ways; by using Local Exchange Service; by having direct access by way of Special Access Service as described in Section 7 of this tariff and by having packet switch access by way of 9.6 or 56 kilobits per second (kbps) channels as also described in Section 7 of this tariff.
3. The technical specifications for Public Data Network Service are as described in Verizon Publication TR 72211.
4. Public Data Network Service provides the ability to originate and terminate calls as follows.
  - a. Exchange Service Access
    - (1) Dial Access - Originate Only, up to 1.2 and 2.4 kbps
    - (2) ISDN Direct Access - Originate and Terminate, up to 9.6 kbps
  - b. Direct Access - Originate and Terminate, up to 1.2, 2.4, 4.8 and 9.6 kbps
  - c. Packet Switch Access - Originate and Terminate, 9.6 and 56 kbps

The originating and terminating calls are transported through the network in data packets. Data packets pass from the access concentrator to the packet switch in the originating or terminating direction. Packets remain in the proper sequence by means of the establishment of virtual circuits using transport capabilities of the X.25 protocol.

5. Public Data Network Service provides different billing options depending upon the type of customer access. The billing options are as follows.

\* Available with X.25 and X.75 protocols only.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making DDS changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

5. (Cont'd)

a. Dial Access

Customers without Network User Identification - Reverse Charge Only  
Customers with Network User Identification - Prepaid

b. Direct and ISDN Direct Access

(1) Originating Calls

(a) Prepaid

Unless specifically identified on a call by call basis all  
originating traffic will be prepaid.

(b) Reverse Charge

Unless specifically identified on a call by call basis all  
originating traffic will be reverse charged to the called party.

(2) Terminating Calls

(a) Reverse Charge Acceptance

Customers who previously select this option will accept the  
charges for all calls sent to the network addresses assigned to  
the customer.

(b) Reverse Charge Denied

Customers who previously select this option will be able to  
receive prepaid calls only.

(3) Usage charges associated with calls transmitted on a reverse charge  
basis to a customer who does not subscribe to reverse charge  
acceptance capability will be billed to the originator of the call.

c. Packet Switch Access

(a) Originating Calls - See b.(1) preceding.

(b) Terminating Calls - See b.(2)(a) preceding.

(c) Usage Charges - See b.(3) preceding.

# Effective April 15, 2005, Public Data Network Service is no longer available for (N)  
new customer installations or network changes. Current customers are prohibited |  
from making changes to existing service; however, alternative network services (N)  
such as DDS, FRS, and ATM are available for their use.

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

6. Optional Features

Optional Features, many of which are Basic Service Elements (BSEs), provide the capability for direct or packet switch access customers to interact with the Public Data Network Service.

The following is a list of Verizon's Open Network Architecture (ONA) Public Data Network Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Services Users Guide, July 31, 1991, from the product name utilized in this tariff.

GENERIC NAME	VERIZON PRODUCT NAME
Call Detail Recording Reports - Packet	Monthly Detailed Connection File
Call Redirection - Packet	Call Redirection
Closed User Groups - Packet	Closed User Groups
Hunt Groups - Packet	Multiple Channel Hunt Groups
Multiple Network Addresses/Port - Packet	Multiple Network Addresses

7. Provisions and Descriptions of Customer Access

a. Dial Access

There are four forms of dial access; generic, auto-call ports, dedicated dial ports and transaction services. These are initiated within the Public Data Network Service equipped local access and transport area (LATA) by dialing a Public Data Network Service access number via the customer's existing local exchange line. Dial access is provided for in the Telephone Company's Local Exchange and Long Distance Services Tariffs and the charges as specified therein apply for each completed call to the Public Data Network Service access number. Generic dial access supports asynchronous protocol and transmission speeds of up to 1.2 and 2.4 kbps. Auto-call and dedicated dial access support asynchronous protocol and transmission speeds of 300 bps, and 1.2 and 2.4 kbps. Transaction service supports asynchronous protocol and transmission speeds of 300 bps and 1.2 kbps.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

a. Dial Access (Cont'd)

(1) Generic Dial Access

Users will access these ports by dialing a telephone number and then must furnish via the connected data terminal, the network address with which the calling user wishes to converse. In addition, the user must manually negotiate with the Public Data Network Service, on a call-by-call basis, as to the transmission speed, up to 1.2 and 2.4 kbps, character parity, and other parameters of each transaction.

(2) Auto-call Ports

Specially programmed Public Data Network Service dial-in ports, assigned to a unique customer and accessed by a telephone number, which allows the connection of a dial-in terminal directly to a host data base within the Public Data Network Service equipped LATA or to an external data terminal via the services of an interexchange carrier. The connection is affected without the need for the originating data terminal to specify call routing details on a per call basis. Essentially, as soon as the Public Data Network Service dial-up modem "handshakes" with the modem of the originating data terminal, a call request packet is transmitted to the terminating data terminal and a virtual connection is established.

The customer, at service provisioning time, must specify any optional features, speed, parity, etc., as well as the destination network address and the appropriate interexchange carrier.

(3) Dedicated Dial Ports

Dedicated dial ports are auto call ports where the customer elects to provide their own business line termination in lieu of a telephone company provided access number.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

a. Dial Access (Cont'd)

(4) Transaction Service

Transaction service is designed for on-line credit verification. Each transaction consists of up to 12 packets of data transmitted per call. Users will access ports by dialing a telephone number and then must furnish, via the connected data terminal, the network address with which the calling user wishes to communicate. The other transmission parameters are done automatically. Kilopacket transport and network connection time do not apply to transaction service. In addition, transmission speeds are limited to 300 bps and 1.2 kbps only.

b. Direct Access

Direct access is provided through channels as defined in Section 7 of this tariff to connect the customer to a modem on the access concentrator. Direct access supports two types of access concentrator protocols; asynchronous and X.25. Each modem has a unique network address. Direct access is provided with transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 kbps.

The two types of Direct Access are described as follows.

(1) Asynchronous Protocol

Asynchronous protocol provides the capability of establishing a single communications link from the customer through the Public Data Network Service.

(2) X.25 Protocol

X.25 protocol provides the capability of establishing multiple virtual circuits from the customer through the Public Data Network Service. The maximum number of virtual circuits established is determined by the speed as follows.

Speed	Virtual Circuits
1.2 kbps	4
2.4 kbps	8
4.8 kbps	16
9.6 kbps	32

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

b. Direct Access (Cont'd)

(2) X.25 Protocol (Cont'd)

Technical Specifications

The technical specifications defined in Section 7 of this tariff apply for channels provided to the access concentrators.

c. Packet Switch Access

Packet switch access if provided through channels as defined in Section 7 of this tariff to connect a customer directly to a port on the packet switch. This arrangement supports high speed 9.6 or 56 kbps channels and either X.25 or X.75 protocol. The X.75 protocol provides load distribution. Packet switch access has the capability of establishing multiple virtual circuits from the customer through the Public Data Network Service.

(1) X.25 Protocol

The maximum number of virtual circuits established is determined by the speed as follows.

Speed	Virtual Circuits
9.6 kbps	128
56.0 kbps	256

(2) X.75 Protocol

The maximum number of multiple virtual circuits established is determined by speed as follows.

Speed	Virtual Circuits
9.6 kbps	128
56.0 kbps	256

(3) Technical Specifications

The technical specifications defined in Section 7 of this tariff apply for channels provided to the packet switch.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

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PUBLIC DATA NETWORK SERVICE#(LA-3)

B. REGULATIONS (Cont'd)

7. Provisions and Descriptions of Customer Access (Cont'd)

c. Packet Switch Access (Cont'd)

(4) Temporary Takedown

With prior written notice to the Telephone Company, a packet switch access customer may request temporary takedown, i.e., removal from service, of a packet switch access port. The two available takedown procedures are described in Verizon Publication TR 72211.

The credit allowance for service interruptions specified in paragraph 2.4.4. of Section 2 of this tariff does not apply during the period of such temporary takedown.

C. RATES

1. Application of Rates

a. Rates and charges for Special Access Service of the appropriate type contained in Section 7 of this tariff, apply for each circuit connected to an access concentrator or packet switch, and Local Exchange Service rates and charges apply for all dial access.

b. Access Connection

The Access Connection rate element provides a dedicated connection to an access concentrator or a packet switch. There are two types of access connections, the Direct Access Connection and Packet Switch Access Connection.

(1) A Direct Access Connection provides the customer dedicated access to a port on the access concentrator at transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 kbps, with either asynchronous or X.25 protocols.

(2) A Packet Switch Access Connection provides the customer with a dedicated connection to a port on the packet switch at transmission speeds of 9.6 or 56.0 kbps with either X.25 or X.75 protocols.

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)  
|  
(N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

PUBLIC DATA NETWORK SERVICE#(LA-3)

C. RATES (Cont'd)

1. Application of Rates (Cont'd)

c. Network Usage

The Network Usage rate elements provide a customer the ability to send packets of data and the transport of those packets, to another customer. There are two types of Network Usage Charges, i.e., Network Connection Time and Kilopacket Transport.

(1) Network Connection Time

Network Connection Time provides a Dial Access customer the use of the network from the time the call is connected until it is terminated. Network Connection Time is billed to the terminating network address or Interexchange Carrier of the Public Data Network Service dial access call.

(2) Kilopacket Transport

Kilopacket Transport provides for the routing of the packets over the Public Data Network Service in both the originating and terminating directions. Usage charges are based on the number of kilopackets transmitted over the Public Data Network Service for all types of access. Charges are rated on a time-of-day basis as follows.

Rate Period	From	Time Applicable To But Not Including	Days Applicable
1	8:00 A.M.	5:00 P.M.	Monday through Friday
2*	8:00 A.M.	5:00 P.M.	Saturday and Sunday
	5:00 P.M.	11:00 P.M.	Every day
3	11:00 P.M.	8:00 A.M.	Every day

d. Rearrangement Charge

The Rearrangement Charge applies for the following.

- (1) The speed of a direct access connection or packet switch access connection is changed.

\* Applicable for the holidays as specified in Section 2 of this tariff, paragraph 2.4.1.(B)(3)(a).

# Effective April 15, 2005, Public Data Network Service is no longer available for new customer installations or network changes. Current customers are prohibited from making changes to existing service; however, alternative network services such as DDS, FRS, and ATM are available for their use. (N)

Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

PUBLIC DATA NETWORK SERVICE#(LA-3)

C. RATES (Cont'd)

1. Application of Rates (Cont'd)

d. Rearrangement Charge

The Rearrangement Charge applies for the following. (Cont'd)

- (2) A change is required at the direct access port without changing the network address.
- (3) The protocol of a line is changed.
- (4) Port or protocol parameters are changed.
- (5) Existing channels are added to a closed user group.
- (6) Existing channels are added to a multiple channel hunt group.
- (7) Existing channels are established as part of a permanent virtual circuit.
- (8) Existing packet size is changed.†
- (9) Existing window size is changed.†
- (10) Existing throughput class is changed.†
- (11) Existing call redirection destination is changed.†
- (12) Existing mnemonic addresses are changed.†

- e. The NUI consists of a nonrecurring charge per account establishment and a monthly charge per NUI, per access concentrator.

NUI is offered for dial-up users accessing an X.25 or asynchronously connected host on a sent-paid basis.

- f. Network Management Reports consist of a nonrecurring charge per customer for each Data Network Control Center (DNCC) served area associated with the initial order, and a monthly charge per customer per DNCC served area.

† Only one rearrangement charge is applicable for changes to one or more of these features when requested at the same time.

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Issued by authority of an Order of the Public Service Commission of West Virginia in Case No. \_\_\_\_\_ dated \_\_\_\_\_.

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PUBLIC DATA NETWORK SERVICE#(LA-3)

C. RATES (Cont'd)

2. Access Connection

a. Direct Access

(1) Asynchronous Protocol, each For transmission speeds of	Nonrecurring Charge	Per Month	USOC
1.2 kbps .....	\$ 73.37	\$35.00	LPP12
2.4 kbps .....	73.37	42.00	LPP24
4.8 kbps .....	73.37	65.00	LPP48
9.6 kbps .....	73.37	85.00	LPP96
 (2) X.25 Protocol, at the following transmission speeds, each			
1.2 kbps .....	73.37	35.00	LDZ12
2.4 kbps .....	73.37	42.00	LDZ24
4.8 kbps .....	73.37	65.00	LDZ48
9.6 kbps .....	73.37	85.00	LDZ96

b. Packet Switch Access, at the following  
speeds, per port connected

(1) X.25 Protocol			
9.6 kbps .....	-	300.00	LDD96
56.0 kbps .....	-	550.00	LDD56
 (2) X.75 Protocol			
9.6 kbps .....	-	300.00	LDD97
56.0 kbps .....	-	550.00	LDD57

c. Dial Access

(1) Auto Call Ports, including the associated modems, central office  
cross connections, line terminations and telephone numbers.

Asynchronous Protocol

First Auto Call Port .....	100.00	125.00	LJP
Additional Auto Call Port, each ..	100.00	71.81	LRQ

(2) Dedicated Dial Port

First Dial Port .....	100.00	112.00	(U)
Additional Dial Port, each .....	100.00	62.00	

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PUBLIC DATA NETWORK SERVICE#(LA-3)

C. RATES (Cont'd)

2. Access Connection (Cont'd)

c. Dial Access (Cont'd)

(3) Transaction Service, each transaction, per call

0 - 20,000 .....	\$.020
20,001 - 100,000 .....	.018
100,001 - 500,000 .....	.015
500,001 + .....	.012

3. Network Usage

a. Network Connection Time, per dial access minute or fraction thereof

Generic Port

Initial minute .....	.02
Additional minutes, each .....	.01

b. Kilopacket Transport

Number of Kilopackets	Rate Period 1	Rate Period 2	Rate Period 3
Up to 100	\$.55	\$.40	\$.25
Up to 500	.52	.39	.25
Up to 2000	.50	.38	.25
Up to 3000	.47	.37	.25
Up to 4000	.44	.36	.25
Up to 5000	.42	.36	.25
Up to 6000	.40	.35	.25
Over 6000	.38	.35	.25

4. Optional Features

	Nonrecurring Charge	Per Month	USOC
a. Closed User Group, per channel, per group....	-	\$ 10.00	LDJ
b. Monthly Detailed Connection File, per billing account.....	-	230.00	MAJ1T
c. Multiple Channel Hunt Group, per hunt group..	-	10.00	LDM
d. Multiple Network Addresses, per 100 numbers..	-	75.00	LDQ
e. Permanent Virtual Circuit, each.....	-	10.00	LDV

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C. RATES (Cont'd)

4. Optional Features	Nonrecurring Charge	Per Month	USOC
f. Packet Size Negotiation, each*.....	-	\$10.00	LNP
g. Window Size Negotiation, each*.....	-	10.00	LNW
h. Through Put Class Negotiation, each*.....	-	10.00	LD1
i. Call Redirection, each.....	\$ 25.00*	-	LRD
j. Mnemonic Address, per address, per LATA.....	150.00*	-	LJE
k. Network User Identification, each.....	7.00	5.00	
l. Network Management Reports, per customer.....	75.00	150.00	
5. Rearrangement Charge, per rearrangement.....	\$70.00	-	X25

\* If installed subsequent to the initial installation of the Public Data Network Service with which it is associated, a Rearrangement Charge as specified following will apply in addition.

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