

TARIFF F.C.C. NO. 2
In lieu of F.C.C. No. 1
rejected by the Federal
Communications Commission
1st Revised Title Page 1
Cancels Original Title Page 1

ACCESS SERVICE

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

UNION TELEPHONE COMPANY

in the State of

WYOMING
&
UTAH

as provided herein.

Rate Centers:

Browns Park, CO	Christmas Meadows, UT	
Dutch John, UT	Encampment, WY	(N)(X)
Greendale, UT	Hanna, WY	(N)(X)
Labarge, WY (N)(X)	Lyman, WY	
Manila, UT	Manila-McKinnon, WY	
Mountain View, WY	Rock River, WY	(N)(X)
Saratoga, WY (N)(X)	Shirley Basin, WY	(N)(X)
Urie, WY		

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

(X) Issued under Special Permission 94-1053 of the Federal Communications Commission.

ACCESS SERVICE

Check Sheet

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ACCESS SERVICE

EXPLANATION OF SYMBOLS

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

EXPLANATION OF ABBREVIATIONS

ac	-Alternating current	
ANI	-Automatic Number Identification	
AT&T	-American Telephone and Telegraph Company	
BD	-Business Day	
BHMC	-Busy Hour Minutes of Capacity	(N)
BNA	-Bill Name and Address	(N)
BTN	-Billed Telephone Number	
CCS	-Common Channel Signaling	
CCSN	-Common Channel Signaling Network	
CCSAC	-Common Channel Signaling Access Capability	
CO	-Central Office	
CNP	-Charge Number Parameter	
Cont'd	-Continued	
CPE	-Customer Premises Equipment	
CPN	-Calling Party Number	
CSP	-Carrier Selection Parameter	
DA	-Directory Assistance	
dB	-decibel	
dc	-direct current	
EPL	-Echo Path Loss	
ESS	-Electronic Switching System	
ESSX	-Electronic Switching System Exchange	
f	-frequency	
F.C.C.	-Federal Communications Commission	

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

FX	-Foreign Exchange	
Hz	-Hertz	
IC	-Interexchange Carrier	
ICB	-Individual Case Basis	
kbps	-kilobits per second	
kHz	-kilohertz	
LATA	-Local Access and Transport Area	
MMUC	-Minimum Monthly Usage Charge	
MRC	-Monthly Recurring Charge	
MTS	-Message Telecommunications	
NPA	-Numbering Plan Area	
NRC	-Nonrecurring Charge	
NTS	-Non-Traffic Sensitive	
NXX	-Three-Digit Central Office Code	
PBX	-Private Branch Exchange	
PCM	-Pulse Code Modulation	
PI	-Priority Installation	
POT	-Point of Termination	
PR	-Priority Restoration	
SNAL	-Signaling Network Access Link	(N)
SP	-Signaling Point	
SPOI	-Signaling Point of Interface	
SRL	-Singing Return Loss	
SSN	-Switched Service Network	
SS7	-Signaling System 7	
SSP	-Service Switching Point	
STP	-Signaling Transfer Point	(N)
TSP	-Telecommunications Service Priority	
TSPS	-Traffic Service Position System	
TV	-Television	
USOC	-Uniform Service Order Code	
VG	-Voice Grade	
V&H	-Vertical & Horizontal	
WATS	-Wide Area Telecommunications Service(s)	

ACCESS SERVICE

REFERENCE TO OTHER TARIFFS

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

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

Certain regulations appearing on this page formerly appeared on page(s) 19 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS

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

Technical Reference:

- | | | |
|------------------------------------|-----------------------------|-----|
| 1. PUB 41451 | | |
| Issued: January, 1983 | Available: May 17, 1983 | |
| 2. PUB 41004 | | |
| Issued: October, 1973 | Available: October, 1973 | |
| 3. PUB 62500 | | |
| Issued: December, 1983 | Available: March 15, 1984 | |
| 4. PUB 62501 & Associated Addendum | | |
| Issued: December, 1983 | Available: March 15, 1984 | |
| 5. PUB 62502 | | |
| Issued: December, 1983 | Available: January, 1984 | |
| 6. PUB 62503 & Associated Addendum | | |
| Issued: December, 1983 | Available: March 15, 1984 | |
| 7. PUB 62504 & Associated Addendum | | |
| Issued: December, 1983 | Available: March 15, 1984 | |
| 8. PUB 62505 & Associated Addendum | | |
| Issued: December, 1983 | Available: January, 1984 | |
| 9. PUB 62506 | | |
| Issued: December, 1983 | Available: January, 1984 | |
| 10. PUB 62507 | | |
| Issued: December, 1983 | Available: March 15, 1984 | |
| 11. PUB 62508 | | |
| Issued: December, 1983 | Available: January, 1984 | |
| 12. PUB 62310 | | |
| Issued: September, 1983 | Available: October, 1983 | |
| 13. PUB 62411 | | |
| Issued: September, 1983 | Available: October, 1983 | |
| 14. PUB TR EOP-000178 | | |
| Issued: 3rd Quarter 1985 | Available: 3rd Quarter 1985 | |
| 15. TR-INS-000342 High Capacity | | (N) |
| Digital Special Access Service | | |
| Issued: February 1991 | | (N) |

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

ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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

Available: June, 1980

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

PUB AS No. 1 - Issue II
Issued: May, 1984

Available: May, 1984

The following technical publications are referenced in this tariff and may be obtained from GVNW, Inc/Management, 2270 La Montana Way, Colorado Springs, Colorado 80918. Updates to this document are performed periodically. The availability of the most current version of these documents will depend on distribution and availability from the Ordering and Billing Forum (OBF).

1. Multiple Exchange Carrier Access Billing (MECAB)

Ordering and Billing Forum
Issued: November, 1987

Available: November, 1987

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

Ordering and Billing Forum
Issued: October, 1985

Available: November, 1985

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

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook, National Communications System (NCSH 3-1-2)
Dated: July 9, 1990

Available: August, 1990

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCSM 3-1-1)
Dated: July 9, 1990

Available: August, 1990

ACCESS SERVICE

1. Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to the provision of End User Access, Switched Access, Special Access Services, Lifeline Assistance, Universal Service Fund, and other miscellaneous services, hereinafter referred to collectively as service(s), provided by Union Telephone Company, hereinafter referred to as the Telephone Company, to Customer(s). (C)

Pursuant to the Commission's Rules at Section 69.4(c), 69.5(d), 69.104(1), 69.116, 69.117, 69.603(c), and 69.603(d), regulations concerning administration and billing of Lifeline Assistance and Universal Service Fund, rates and charges for Union's carrier elements are contained in Section 8 of the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., Tariff F.C.C. No. 5. The National Exchange Carrier Association, Inc., will bill and collect all Lifeline Assistance and Universal Service Fund charges on behalf of the Telephone Company.

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

ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1. Scope

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

2.1.2 Limitations

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

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

- (B) All services offered in this tariff will be provided on a first-come first-served basis except as provided for following. The regulations for the installation and restoration of Telecommunications Service Priority (TSP) System Services shall be subject to Part 64.401, Appendix A, of the Federal Communications Commissions Rules and Section 10., following.

(c)
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|
|
(c)

ACCESS SERVICE

2. General Regulations (Cont'd) (M)

2.1 Undertaking of the Telephone Company (Cont'd) (M)

2.1.3 Liability (M)

(A) Except in the case of willful misconduct for which the Telephone Company's liability is not limited by this tariff, the Telephone Company's liability for damages shall not exceed an amount equal to the proportionate tariff charge for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may be due the customer as described in Section 2.4.3, following. (T)

(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. (M)

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

(D) 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 end users or IC or; (M)

Certain regulations appearing on this page formerly appeared on page(s) 23-23.1 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.1 Undertaking of the Telephone Company (Cont'd)
- 2.1.3 Liability (Cont'd)
 - (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 of 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;
 - (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. (M)
 - (F) 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 Section 2.4.4, following. (M)
- 2.1.4 Provision of Services (T)
 - The Telephone Company's obligation to furnish the services described in this tariff is dependent upon. (T)

Certain regulations appearing on this page formerly appeared on page(s) 23.1-25 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.1 Undertaking of the Telephone Company (Cont'd) |
- 2.1.4 Provision of Services (Cont'd) (M)
 - its ability to provide such service after provision has been made for the (T)
 - Telephone Company's exchange services. |
- 2.1.5 Installation and Termination of Services (T)
 - The services provided under this tariff (A) will include any entrance cable or (M)
 - drop wiring and wire or intrabuilding cable to that point where provision is |
 - made for termination of the Telephone Company's outside distribution network |
 - facilities at a suitable location inside a customer-designated premises and (B) |
 - will be installed by the Telephone Company to such Point of Termination. |
 - Wire required within a building to extend Access Service facilities will be (M)
 - provided, at the Customer's request, on a time sensitive charge basis. The |
 - labor rates for the installation of such wire are the same as those set forth in (C)
 - Section 9.2, following, for Other Labor. |
- 2.1.6 Maintenance of Services (C)
 - The services provided under this tariff shall be maintained by the Telephone (M)
 - 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 FCC Part 68 |
- Regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, (M)
- where such action is reasonably required in the operation of its business, (A) (T)
- change any facilities used in providing service under this tariff, (B) change (T)
- minimum protection criteria, (C) change operating or maintenance. (M)

Certain regulations appearing on this page formerly appeared on page(s) 25-26 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.1 Undertaking of the Telephone Company (Cont'd) |
- 2.1.7 Changes and Substitutions (Cont'd) (M)
- characteristics of facilities or (D) change operations or procedures of the Telephone Company. The Telephone Company shall not be responsible if the change renders customer furnished services obsolete or requires modification of the customer furnished services. If such change materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the changes made. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures. (T)
- 2.1.8 Refusal and Discontinuance of Service (M)
- (A) Unless the provisions of Section 2.2.1(B) or 2.5, following, apply, if a customer fails to comply with Section 2.1.6, preceding, or Sections 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) day's 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 non-complying customer at any time thereafter.
- If the Telephone Company does not refuse additional applications for service on the date specified in the thirty (30) day's 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 non-complying customer without further notice.
- (B) Unless the provisions of Section 2.2.1(B) or 2.5, following, apply, if a customer fails to comply with Section 2.1.6. (M)

Certain regulations appearing on this page formerly appeared on page(s) 26-27 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Limitation of Use of Metallic Facilities

Signals applied to a metallic facility shall conform to the limitations set forth in Technical Reference Publication AS No. 1. Where necessary, the customer shall be responsible for the provision of current limiting devices to protect Telephone Company facilities from excessive current due to abnormal conditions and for the provisions 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 additions, removals, and routine preventative maintenance. 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.

(M)

2.1.11 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers 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, the Telephone Company will furnish to the customer 6 months notice, by certified mail, of the effective date and an explanation of the reason(s) for such change(s).

(M)

(M) Material now appearing on this page previously appeared on Original Page 21.1.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

(M)

|

(M)

2.1.12 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.

2.1.13 Nonchargeable Confirmation Services

(N)

(A) Billed Number Screening (BNS): At the request of the customer, the Telephone Company business office will confirm BNS codes associated with a line to which a call is to be billed.

(B) Originating Line Screening (OLS): At the request of the customer, the Telephone Company business office will confirm OLS codes associated with an exchange access line from which a call originates.

|

(N)

2.2 Use

2.2.1 Interference or Impairment

(A) The facilities and equipment provided by the customer which are used in conjunction with Telephone Company facilities in the provision of Access Service shall not interfere with or impair the provision of service by the Telephone Company.

(M) Material previously appearing on this page now appears on 1st Revised Page 21.1.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use (Cont'd) (M)

2.2.1 Interference or Impairment (Cont'd) (M)

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

2.2.2 Unlawful Use (M)

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

2.3 Obligations of the Customer (D)

2.3.1 Damages (M)

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

Certain regulations appearing on this page formerly appeared on page(s) 30-31 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.3 Obligations of the Customer (Cont'd) |
- 2.3.1 Damages (Cont'd) |
- 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. |
- (M)
- 2.3.2 Ownership of Facilities (C)
- Facilities utilized by the Telephone Company to provide service under the |
- provisions of this tariff shall remain the property of the Telephone Company. |
- Such facilities shall be returned to the Telephone Company by the customer, |
- whenever requested, within a reasonable period following the request in as |
- good condition as reasonable wear will permit. Any cost of repair or |
- replacement for unreasonable wear or damage will be billed to the customer |
- who utilized the equipment. (M)
- (N)
- 2.3.3 Equipment Space and Power (N)
- (M)
- 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 space at reasonable times for installing, testing, repairing |
- or removing Telephone Company services. |
- 2.3.4 Availability for Testing |
- The services provided under this tariff shall be available to the Telephone |
- Company at times mutually agreed upon in order to permit the Telephone |
- Company to make tests and adjustments (M)

Certain regulations appearing on this page formerly appeared on page(s) 31-32 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.3 Obligations of the Customer (Cont'd)
 - 2.3.4 Availability for Testing (Cont'd)

appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.
 - 2.3.5 Balance

All signals for transmission over the services provided under this tariff shall be delivered by the customer balanced to ground except for ground start, duplex (DX) and 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 Section 2.1.7, preceding, the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of the Telephone Company, minimum protection criteria or operating or maintenance characteristics of the facilities.
 - 2.3.7 Reference to the Telephone Company

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

Certain regulations appearing on this page formerly appeared on page(s) 32-33 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.3 Obligations of the Customer (Cont'd) (M)
- 2.3.8 Claims and Demands for Damages (D)
- 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 material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortuous conduct of the customer, its officers, agents or employees. The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this tariff. (M) (T) (M) (D) (D)

Certain regulations appearing on this page formerly appeared on page(s) 33-34 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements

(A) Jurisdictional Reports - Switched Access

(N)

For Switched Access Service, the Telephone Company cannot in all cases determine the jurisdictional nature of customer traffic and its related access minutes. In such cases the customer may be called upon to provide a projected estimate of its traffic, split between the interstate and intrastate jurisdictions. For purposes of determining the jurisdiction of Switched Access Services, the regulations set forth in (1) through (4), below, apply.

(1) Percentage of Interstate Usage (PIU)

(a) For purposes of developing the projected interstate percentage for Feature Group C and Feature Group D, 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 the call; i.e., a call between two points within the same state is an intrastate call even if it is routed through another state.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(N)

(1) Percentage of Interstate Usage (PIU) (Cont'd)

(a) (Cont'd)

For purposes of developing the projected interstate percentage for Feature Group A and Feature Group B, 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 (as designated by the called station telephone number) is situated is an intrastate communication and every call for which the point of entry is in a state other than that where the called station (as designated by the called station telephone number) is situated is an interstate communication.

(b) When the Telephone Company receives sufficient call detail to permit it to determine the jurisdiction of some or all originating and terminating access minutes of use, the Telephone Company will use that call detail to render bills for those minutes of use and will not use PIU factor (s) described in (2), below, to determine the jurisdiction of those minutes of use.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(N)

(1) Percentage of Interstate Usage (PIU) (Cont'd)

(b) (Cont'd)

When the Telephone Company receives insufficient call detail to determine the jurisdiction of some or all originating and terminating access minutes of use, the Telephone Company will apply the PIU factor (s) provided by the customer or developed by the Telephone Company as set forth in (2), below, only to those minutes of use for which the Telephone Company does not have sufficient call detail. Such PIU factor (s) will be used until the customer provides an update to its PIU factor (s) as set forth in (2) (g) or (h), below.

For all flat rated Switched Access Services, the Telephone Company will apply the PIU factor (s) as provided by the customer or developed by the Telephone Company as set forth in (2), below, each month until the customer provides an update to its PIU factor (s) as described in (2) (g) or (h), below.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(2) Use of PIU Factors

(N)

- (a) The customer will provide a projected PIU for each Switched Access Service for each end office when placing its order. Such PIU factors are applied to all usage rated elements (including but not limited to Information Surcharge, Local Switching, and Tandem Switched Transport), where the Telephone Company does not receive sufficient call detail to determine the jurisdiction of the usage.

If the customer fails to provide a PIU factor on its order for service, the following provisions apply. For originating access minutes, when the call detail is adequate to determine the appropriate jurisdiction and when the Feature Group C or Feature Group D access minutes of use are measured, the Telephone Company will develop PIU factor (s) on a monthly basis by end office by dividing the customer's measured interstate access minutes (the access minutes where the calling party is in one state and the called party is in another state) by the customer's total originating access minutes. For terminating access minutes, the same data used by the Telephone Company to develop the PIU factor for originating access minutes will be used to develop the PIU factor for such terminating access minutes.

The Telephone Company developed PIU factor (s) described in this section will only be used for minutes of use for which the Telephone Company does not have sufficient call detail to determine the jurisdiction until such time as the customer provides updated PIU factor (s) for these services.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(2) Use of PIU Factors (Cont'd) (N)

(a) Separate PIUs are required for flat rated Entrance Facilities, Direct Trunked Transport Facilities, and Switched Access Services Optional Features and Functions. The PIU factor (s) for use with such flat rated elements will reflect the combination of originating and terminating traffic of all services using such facilities.

If the customer fails to provide a PIU factor on its order for service, the Telephone Company will apply the PIU factor it developed pursuant to (2) (a), above, against the customer's flat rated Switched Access Services to apportion those changes between the jurisdictions.

(c) When a customer orders Feature Group A or Feature Group B Switched Access Service, the customer shall, in its order, state the projected percentage for interstate usage for each Feature Group A or Feature Group B Switched Access Service group ordered. The term group shall be construed to mean single lines or trunks as well. For all groups the number of access minutes (either measured or assumed) for a group will be multiplied by the projected interstate percentage to develop the interstate access minutes. The number of access minutes for the group minus the developed interstate access minutes for the group will be developed intrastate access minutes. (N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

- | | | |
|-----|--|-----|
| (A) | <u>Jurisdictional Reports - Switched Access</u> (Cont'd) | (N) |
| (2) | <u>Use of PIU Factors</u> (Cont'd) | |
| (d) | When a customer orders Directory Assistance Service, the customer shall, in its order, provide the projected interstate percentage for terminating use. | |
| (e) | When the customer has both interstate and intrastate Operator Services traffic, the percentage interstate usage determined for the customer's FGC or FGD service will be applied to the customer's Operator Services charges. | |
| (f) | For each service, the customer may only provide a PIU factor that is in a whole number format, i.e., a number from 0 to 100. When the customer provides the PIU factor, the Telephone Company will subtract the provided PIU from 100 and the difference is the percent intrastate usage. The sum of the interstate and intrastate percentages will equal 100 percent. The customer provided factors will be used by the Telephone Company as described in (1) (b), above, until the customer provides updated PIU factors as required in (2) (g) or (h), below. | |
| | | (N) |

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(N)

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

(g) When the customer adds or discontinues Busy Hour Minutes of Capacity (BHMC), lines or trunks to an existing Switched Access Service group, the customer shall furnish a revised projected interstate percentage for the remaining BHMC, lines or trunks in the end office group. The revised report will serve as the basis for future billing, where applicable, and will be effective on the next bill date. No prorating or back billing will be done based on such revised report.

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

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports - Switched Access (Cont'd) (N)

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

(h) Cont'd

If the customer does not supply the revised reports, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the customer, the Telephone Company will assume the percentages to be the same as those provided in the customer's order for service or as developed by the Telephone Company as specified in (2) (a), above.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports - Switched Access (Cont'd) (N)

(3) Maintenance of Customer Records

(a) The customer shall retain for a minimum of six (6) months call detail records that substantiate the interstate percent provided to the Telephone Company as set forth in (2), above, for Switched Access Services. Such records shall consist of (i) and (ii), below, if applicable.

(i) 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 terminating address (i.e., 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;

(ii) If the customer has a mechanized system in place that calculated the PIU, then a description of that system and the methodology used to calculate the PIU 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.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports - Switched Access (Cont'd) (N)

(4) Disputes Involving Jurisdictional Reports – Switched Access

(a) If a billing dispute arises or if a regulatory commission questions the projected PIU factor (s) provided by the customer, the Telephone Company may, by written request, require the customer to provide the data the customer used to determine the projected PIU factor (s). This written request will be considered the initiation of the audit. The customer shall supply the data to an independent auditor or the Telephone Company within thirty (30) days of the Telephone Company request. The customer shall keep records of call detail from which the percentage of interstate and intrastate use can be ascertained as set forth in (3), above, and upon request of the Telephone Company make the records available for inspection at an agreed upon location during normal business hours as reasonably necessary for purposes of verification of the percentages. The Telephone Company will audit data from one quarter unless a longer period is requested by the customer and agreed to by the Telephone Company.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports - Switched Access (Cont'd) (N)

(4) Disputes Involving Jurisdictional Reports – Switched Access (Cont'd)

(b) If the customer does not provide the requested data to the Telephone Company or independent auditor within thirty (30) days of the notice of audit, the customer will be in violation of the Tariff and subject to the provisions specified in Section 2.1.8 (A), preceding.

(c) Audits may be conducted by: (1) the Telephone Company when the customer agrees; (2) an independent auditor under contract to the Telephone Company; (3) a mutually agreed upon independent auditor paid for equally by the customer and the Telephone Company; or (4) an independent auditor selected and paid for by the customer. If the customer selects option (4), where it pays for its own independent audit, the selected auditor must certify that the audit was performed following Commission procedures for measuring interstate traffic as established by Commission Order, and provide the Telephone Company a report with supporting documentation to verify such procedures.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(N)

(4) Disputes Involving Jurisdictional Reports – Switched Access (Cont'd)

(d) Verification audits may be conducted no more frequently than once per year except in extreme circumstances. The Telephone company and customer will attempt to limit the audit to a reasonable time to effectively complete the audit. The Telephone Company and customer shall respond promptly to requests generated during the audit to ensure timely completion of the audit.

(e) When a PIU audit is conducted by the Telephone Company or an independent auditor under contract to the Telephone Company, the audit results will be furnished to the customer by Certified U.S. Mail. When a PIU audit is conducted by an independent auditor selected by the customer, the audit results will be furnished to the Telephone Company by Certified U.S. Mail. The Telephone Company will adjust the customer's PIU based upon the audit results. The PIU resulting from the audit shall be applied to the customer's usage for the quarter the audit is completed, the usage for the quarter prior to the completion of the audit, and the usage for the two (2) quarters following the completion of the audit. After that time, the customer may report revised PIU pursuant to (2) (g) or (h), above. If the revised PIU submitted by the customer represents a deviation of 5 percentages points or more from the audited PIU, and that deviation is not due to identifiable reasons, the provisions in (4) (a), above, may be applied.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports - Switched Access (Cont'd) (N)

(4) Disputes Involving Jurisdictional Reports – Switched Access (Cont'd)

(f) Both credit and debit adjustments will be made to the customer's interstate access charges based on the audit results for the specified periods to accurately reflect the interstate usage for the customer's account consistent with Section 2.4.1, following.

(g) If, as a result of an audit conducted by an independent auditor, a customer is found have over-stated its PIU(s) by 20 percentage points or more, the Telephone Company shall require reimbursement from the customer for the cost of the audit. Such bill(s) shall be due and paid in immediately available funds within 30 days from receipt and shall carry a late payment penalty as set forth in Section 2.4.1, following, if not paid within the 30 days.

(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

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

(D)

(D)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

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

(M)

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

(M)

(A) For monthly and nonrecurring chargeable rate elements, multiply the percent interstate 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 interstate use times actual use times the stated tariff rate.

The interstate percentage will change as revised usage reports are submitted as set forth in Section 2.3.9, preceding.

2.4 Payment Arrangements and Credit Allowance

2.4.1 Payment of Rates, Charges and Deposits

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

(M) Material formerly appearing on 3rd Revised Page 28 now appears on this page.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(A) (Cont'd) (Z)

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

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

(1) The bill day for End User Access Service and Presubscription Service will be the same day established for the provision of local service. (C)
(C)

(2) The bill day(s) for all access services other than End User Access Service and Presubscription Service will be established by the Telephone Company for each customer account and shall appear on the carrier access bill. If the Telephone Company advises the customer in writing, an alternate billing schedule may be established. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12-month period. (C)
(C)

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
 - 2.4 Payment Arrangements and Credit Allowance (Cont'd) |
 - 2.4.1 Payment of Rates, Charges and Deposits (Cont'd) (M)
 - (3) (a) Payment for service is due by the next bill day of the following (T)
month unless the due date falls on a Saturday, Sunday or legal holiday |
(i.e., New Years, Independence Day, Labor Day, Thanksgiving, |
Christmas, Veterans Day the days when Washington's Birthday, |
Memorial Day, and Columbus Day are legally observed). If such (T)
payment date falls on a Sunday or on a Holiday which is observed on a (M)
Monday, the payment date shall be the first non-Holiday day |
following such Sunday or Holiday. If such payment date falls on a (M)

Certain regulation appearing on this page formerly appeared on page(s) 40 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

- 2. General Regulations (Cont'd) (M)
- 2.4 Payment Arrangements and Credit Allowance (Cont'd) |
- 2.4.1 Payment of Rates, Charges and Deposits (Cont'd) |
- (3) (Cont'd) |
- (a) (Cont'd) |
- 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. (M)
- (b) If payment is not received in immediately available funds by the due date as determined in (a) above, a late payment charge calculated at 21% annual interest or the maximum interest allowed by state law whichever is less will apply. Applicable interest will be compounded daily. The late payment charge will be calculated from the due date to and including the date that payment is actually received by the Telephone Company. Any penalty due will be included as a separate item on the next statement issued. (C)
- (c) In the event that a billing dispute concerning charges billed to the customer by the Telephone Company is resolved in favor of the Telephone Company, any disputed payments withheld pending settlement of the dispute shall be subject to the late payment penalty beginning 10 days after the payment date. If the dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount. In this case, if full payment was made by the due date, the Telephone Company will refund the disputed amount in question plus interest calculated daily from 10 days following the due date up to and including the date the payment is refunded. Interest will be calculated as described in (b), above. (M) (T) (T)

Certain regulations appearing on this page formerly appeared on page(s) 40-41.1 EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 1.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(C)

(D)

(D)

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

(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).

2.4.2 Minimum Periods

(A) Unless a minimum service period is described for a specific tariff item, the minimum period for which services are provided and for which rates and charges are applicable is one month.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.2 Minimum Periods (Cont'd)

(A) (Cont'd)

When a service is discontinued prior to the expiration of the minimum period, the total charges at the rate level in effect at the time service is discontinued will apply for the remainder of the minimum period. If the discontinued service is provided based on usage, applicable minimum monthly usage charges (MMUC) will apply for the remainder of the minimum period. If the service is not subject to MMUC, the Telephone Company will estimate usage to the end of the minimum period based on historical data.

(B)

(D)
|
|
(D)

2.4.3 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of facilities used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative. An allowance for interruption will apply only when the interruption is not due to the negligence of the customer. The credit allowance for an interruption or for a series

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

(A) General (Cont'd)

of interruptions shall not exceed the monthly rate and minimum monthly usage charge for the service interrupted in any one monthly billing period.

(B) When a Credit Allowance Applies

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

- (1) For Switched Access Service usage rated elements, no credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of the applicable monthly rates or minimum monthly usage charge for each period of 24 hours or major fraction (12 hours and one minute) thereof that the interruption continues. (C)
- (2) For Special Access Services and for flat rated Switched Access elements (i.e., Entrance Facility, Direct Trunked Transport, and Multiplexing), no credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or major fraction (16 minutes or more) thereof that the interruption continues. (C)
(N)
(N)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruption (Cont'd)

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

(2) (Cont'd)

(a) For two-point service, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., a channel termination per customer designated premises, channel mileage and optional features and functions).

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

(c) Multiplexed Services

For multiplexed services, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., the channel termination, channel mileage Entrance Facility, Direct Trunked Transport and optional features and functions, including the multiplexer on the facility to the hub, and the channel terminations, channel mileages and optional features and functions on the individual services from the hub). When the service which rides a channel of the multiplexed facility is inoperative, the monthly charge shall be the total of all the monthly rate

(N)

(N)

Material previously appearing on this page now appears on Original Page 34.1

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruption (Cont'd)

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

(2) (Cont'd)

(c) Multiplexed Services (Cont'd) (N)

element charges associated with that portion of the service from the hub to a customer premises (i.e., channel termination, channel mileage, Direct Trunked Transport, and optional features and functions).

(d) Flat Rated Switched Access Service Rate Elements

For flat rated Switched Access Service rate elements, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., Entrance Facility, Direct Trunked Transport and Multiplexing).

(C) When a Credit Allowance Does Not Apply (M)

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.

(M) Material previously appearing on Original Page 34 now appears on this page.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

2.4.3 Credit Allowance for Service Interruptions (Cont'd)

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

- (4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of a change order during the time that was negotiated with the customer prior to the release of the service. Thereafter, a credit allowance as set forth in (B), preceding, applies.
- (5) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.

2.4.4 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 for the same customer following an interruption resulting from 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 interruption.
- (2) The service is at the same location on the same premises.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

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

- (3) The re-establishment of service begins within 60 days after Telephone Company service is available.

(B) Nonrecurring Charges Apply

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

2.4.5 Access Services Provided by More Than One Telephone Company

Pursuant to FCC order in CC Docket No. 87-579, released August 29, 1988, the provisions contained in this tariff related to access services provided by more than one Telephone Company which had been set to expire on August 31, 1988 will be effective until further notice.

When more than one Telephone Company is involved in the provisions of Access Services, the Telephone Companies involved will mutually agree upon one of the billing methods described in (A) or (B), following, to bill for the transport or mileage portion of the service. The FCC, in its Memorandum Order and Opinion adopted July 20, 1987 and released July 31, 1987, has identified the alternative methods to be used when billing access services provided by more than one company. For FGC, FGD and Special Access, the Telephone Company will select one of the four options listed after agreeing to implement that method with the interconnecting companies.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

The Telephone Company will notify the customer which of the billing methods will be used. The customer will place the order for service as set forth in Section 5.9, following. The Telephone Company receiving the order or copy of the order from the customer will be responsible for billing the customer according to one of the FCC approved methods. Additionally, the Telephone Company shall provide 30-day advanced notification of any changes in the Multiple Carrier Access Billing arrangement.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(A) Single Bill Options

(1) Single Bill/Multiple Tariff

Under this arrangement, the Telephone Company and the interconnecting carrier companies determine a billing entity (the Telephone Company, the interconnecting carrier, or a third party). The billing entity will prepare a single access bill with each Telephone Company's charges separately identified. The customer then pays the billing entity for the access charges and the billing entity then pays each Telephone Company involved in the provision of the service. This method would require that the billing entity maintain in its billing system the applicable tariff rates and charges for all Telephone Companies involved with the access service.

(2) Single Bill/Pass-Through Billing

Under this arrangement, a predetermined billing company would assemble a single access bill for the entire service provided. Each Telephone Company involved in the provision of the access service prepares an access bill (based on its own tariff) for its portion of the access service and forwards the bill to the billing company. The billing company would combine the various Telephone Company's bills into one access bill to be rendered to the customer.

(3) Single Bill/Single Tariff (LEC-to-LEC Access Billing)

Under this arrangement, the end office Telephone Company is responsible for billing the customer. Included in the Telephone Company's access rate structure would be the cost-based tariff charges of the other Telephone Companies involved in the provision of the access service. The Telephone Company bills the customer for the entire access service and is billed by the other Telephone Companies for the portion of access service they provide.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(B) Multiple Bill Options

(1) Multiple Company/Multiple Tariff Billing

Tandem Switched Transport is non-distance sensitive. Under the arrangement, each Telephone Company providing service will bill the customer according to its tariff. Additionally, these access bills must use the same access minutes of use and include cross references to the other Telephone Company's bills, and common circuit identification. This method was described as the least preferable in the FCC's July 20, 1987 Memorandum Opinion and Order. The only issuing carriers selecting this option are those with technical limitations which prevent implementation of one of the single bill options.

(a) For Non-Distance Sensitive Rate Elements:

Local Transport rate elements with the exception of the Direct Trunked Facility elements are nondistance sensitive. The Local Transport rates described in Section 6.9.2, following, for these elements will apply to the total number of access minutes, terminations, or arrangements as appropriate. The rates charged for the portion of Local Transport provided by a connecting exchange Telephone Company will be based on the connecting exchange Telephone Company's access tariff and may be distance sensitive for all rate options.

(b) For Distance Sensitive Rate Elements:

The Direct Trunked Facility rate in Local Transport and the Channel Mileage Facility rate in Special Access provided by the Telephone Company are distance sensitive.

(M)

(M) Material formerly appearing on 3rd Revised Page 28 now appears on this page.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(B) Multiple Bill Options (Cont'd)

(1) Multiple Company/Multiple Tariff Billing (Cont'd)

(b) For Distance Sensitive Rate Elements:

(M)

The Direct Trunked Facility rate described in Section 6.9.2(D)(1), following, and the Channel Mileage Facility Rate described in Section 7.5.2(A), following, will apply to the total number of miles determined using the following method:

(M)

- (i) Determine the appropriate mileage by computing the number of airline miles between the Telephone Company serving wire centers using the V&H method set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C No. 4.
- (ii) Determine the billing percentage (BP), as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4, which represents the portion of the service provided by each Telephone Company.
- (iii) Multiply the number of airline miles, as set forth in (i), preceding, times the BP for each Telephone Company, as set forth in (ii), preceding, times the Direct Trunked Facility or the Channel Mileage Facility rate as appropriate.

(M) Material formerly appearing on 3rd Revised Page 28 now appears on this page.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(B) Multiple Bill Options (Cont'd)

(1) Multiple Bill/Multiple Tariff Billing (Cont'd)

(b) For Distance Sensitive Rate Elements (Cont'd)

(iv) When three or more Telephone Companies are involved in providing an Access Service, the intermediate Telephone Company(s) will determine the appropriate charges as set forth in (iii), preceding.

(C) Determination of Rates and Charges

(1) Non-Distance Sensitive Rate Elements

(a) Entrance Facility and/or Multiplexing Changes

When the Entrance Facility and/or Multiplexing equipment is located within the operating territory of an issuing carrier of this tariff, the Entrance Facility and/or Multiplexing charge will apply.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(C) Determination of Rates and Charges (Cont'd)

(1) Non-Distance Sensitive Rate Elements (Cont'd)

(b) Residual Interconnection Charge

When the end office (which may be a Remote Switching Module or WATS Serving Office) is located within the operating territory of an issuing carrier of this tariff, the Residual Interconnection Charge will apply.

(c) Tandem Switched Transport

The Tandem Transport rate will apply for all originating and terminating access minutes routed over the facility.

When a tandem office is located within the operating territory of an issuing carrier of this tariff, the Tandem Switching rate will apply to all originating and terminating access minutes that are switched at the tandem.

The Tandem Transport rate is applied as set forth in Section 6.2.(A)(1)(c), following. The Switched Access Nonrecurring Charges are applied as set forth in Section 6.8.1(A), following.

(d) Direct Trunked Termination

The Direct Trunked Termination Rate is applied at each termination located in an office within the operating area of an issuing carrier in this tariff. If a segment of Direct Transport Facility is measured to the intermediate office(s), the Direct Trunked Termination is applied at the intermediate office(s).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowance (Cont'd)

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

(C) Determination of Rates and Charges (Cont'd)

(2) Distance Sensitive Rate Elements

(a) Direct Trunked Facility

The Direct Trunked Facility rate is applied as set forth in Section 2.4.5(B)(1)(b), preceding.

(b) Special Access

For Special Access, the Channel Mileage Facility rate is applied as set forth in Section 2.4.5(B)(1)(b), preceding.

The Special Access Channel Mileage Termination rate and nonrecurring charges are applied as set forth in Sections 7.1.1(B)(2) and 7.1.1(A), following, at each location in an office within the operating area of an issuing carrier in this tariff. (Note: The BP is not applied to either the Channel Mileage Termination Recurring Rate or any Nonrecurring Charge.)

(D) Feature Group C and Special Access Meet Point Billing Option Choices

The Telephone Company will bill the Transport and Special Access mileage portion of service provided by multiple carriers using the Multiple Bill/Multiple Tariff billing option.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections

2.5.1 General

Customer Premise Equipment and 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 Section 2.1, preceding.

2.6 Definitions

Access Order

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

Access Minutes

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

Access Tandem

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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Aggregator

(N)

The term "Aggregator" denotes any entity that, in the ordinary course of its operations, makes telephones available to the public or to transient users of its premises, for interstate telephone calls using a provider of operator services.

(N)

Answer/Disconnect Supervision

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

Balance (100 Type) Test Line

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

Business Day

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

Busy Hour Minutes of Capacity (BHMC)

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

Busy Line Interrupt (BLI)

The term "Busy Line Interrupt (BLI)" denotes the interruption of a telephone line which has been verified as being in use.

Busy Line Verification (BLV)

The term "Busy Line Verification (BLV)" denotes the verifying of a telephone line in use.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Call

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

Carrier or Common Carrier

See Interexchange Carrier.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

CCS

A standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of servers (e.g., trunks). Also known as "100 call seconds".

Central Office

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

Centrex CO Service

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

Channels

A communications path between two or more points of termination.

Coin Station

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

Common Channel Signaling (CCS)

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Common Channel Signaling Access Capability (CCSAC)

The term "Common Channel Signaling Access Capability" denotes the connection between the customer's point of presence and the Signal Transfer Point (STP) designated by the Telephone Company for the transport of signaling information.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Common Line

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

Communications System

Channels and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company.

Conventional Signaling

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 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.

Customer Message

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

(M)

Customer Designated Premises

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

Customers

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.

(M)

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Data Transmission (107 Type) Test Line

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

Detail Billing

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.

Direct-Trunked Transport

The term "Direct-Trunked Transport" denotes transport from the serving wire center to the end office or from the serving wire center to the access tandem on circuits dedicated to the use of a single customer.

Effective 2-Wire

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

Effective 4-Wire

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).

End Office Switch

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

End User

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

Entrance Facility

The term "Entrance Facility" denotes a Switched Access Service dedicated Local Transport facility between the customer's serving wire center and the customer's designated premises.

Entry Switch

See First Point of Switching

Exchange

A unit generally smaller than a local access and transport area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area.

Exit Message

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

Feature Group D

Trunk side access to Telephone Company end office switches with an associated uniform 10XXX access code for the customer's use in originating and terminating communications.

First Point of Switching

The first Telephone Company location at which switching occurs on the terminating path of a call proceeding from the customer premises to the

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

First Point of Switching (Cont'd)

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

Host Office

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

Immediately Available Funds

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

Individual Case Basis

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

Initial Address Message

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

Interconnection Point

The V and H coordinate as determined in the NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff F.C.C. NO. 4 of a point where facilities of the Telephone Company meets facilities of a connecting exchange telephone company.

Interexchange Carrier (IC) or Interexchange Common Carrier

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

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Interstate Call

A term which denotes both interstate and foreign communications.

Intrastate Call

Any Communications within a state subject to oversight by the state regulatory commission.

Line Side Connection

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

Local Access and Transport Area

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

Loop Around Test Line

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

Message

See "Call".

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Milliwatt (102 Type) Test Line

An arrangement in an end office which provides a 1,004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customer's premises from the Telephone Company end office.

Net Salvage

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

Network Control Signaling

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

Nonsynchronous Test Line

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

North American Numbering Plan

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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Off-Hook

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

On-Hook

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

Open Circuit Test Line

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

Operator Transfer Service

The term "Operator Transfer Service" denotes the transfer of an end user call to a specific IC by a Telephone Company operator.

Originating Direction

The use of access service for the origination of calls from an End User Premises to an IC Premises.

Overlap Outpulsing

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

Pay Telephone

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Point of Termination

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

Premises

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Prime Service Vendor

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

Release Message

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

Remote Switching Modules and/or Remote Switching Systems

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.

Registered Equipment

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.

Service Switching Point (SSP)

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

Serving Wire Center

The wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

Shortage of Facilities or Equipment

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Short Circuit Test Line

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.

Signaling Point (SP)

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

Signaling Point Of Interface (SPOI)

The term "Signaling Point of Interface" (SPOI) denotes the interface point between the Telephone Company and its Access customers for purposes of exchanging SS7 Signaling messages for CCS services.

Signaling System Seven (SS7)

The term "Signaling System Seven" (SS7) denotes the layered protocol used for standardized Common Channel Signaling in the United States.

Signaling Transfer Point (STP)

The term "Signaling Transfer Point" (STP) denotes a packet switch providing CCS Network Access that performs CCS message routing and screening.

Special Order

An order for a Billing and Collection Service.

Subcontractor

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Subtending End Office of an Access Tandem

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

Synchronous Test Line

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

Tandem Switched Transport

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

Terminating Direction

The use of Access Service for the completion of calls from an IC premises to an End User Premises.

Termination Liability

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

Toll Free Number Database

The term "Toll Free Number (TFN) Database" refers to the use of database technology to determine to which access customer an originating TFN call is to be delivered. An originating TFN call is a call made with the prefix 1+800, 1+888, 1+866, 1+855, 1+844, 1+833 or 1+822. These calls may also be referred to as 8XX calls. The TFN Database routes calls to an access customer based on the dialed ten digit TFN number. Initially, the Toll Free Number Database will provide routing information for calls utilizing 800 and 888 toll free numbers. The Toll Free Number Database will be expanded, as required, at a later date to include routing for 877, 855, 844, 833 and 822 toll free numbers. Until that time, toll free number calls, other than those originated as 1+800 or 1+888, will not be completed.

(N)

(N)

(M)

(Y) Issued under Special Permission No. 96-176 of the Federal Communications Commission.
M) Material formerly appearing on this page now appears on 1st Revised Page 50.1

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Transmission Measuring (105 Type) Test Line

(M)

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

|
(M)

Transmission Path

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

Trunk

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

(Y) Issued under Special Permission No. 96-176 of the Federal Communications Commission.

(M) Material formerly appearing on 3rd Revised Page 50 now appears on this page.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Trunk Group

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

Trunk Side Connection

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

Two-Wire to Four-Wire Conversion

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

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

V and H Coordinates Method

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

WATS Serving Office

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

Wire Center

A building in which one or more central offices, used for the provision of Telephone Exchange Services, are located.

ACCESS SERVICE

3. Federal Universal Service Charge (N)
|
Terms and conditions for the Telephone Company's Federal Universal Service Charge (FUSC) |
can be found in the NECA Tariff F.C.C. No. 5, Section 3.9.1(A). (N)

ACCESS SERVICE

4. End User Access Service

4.1 General Description

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

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

4.2 Limitations

- (A) A telephone number is not provided with End User Access.
- (B) Detail billing is not provided with End User Access.
- (C) Directory listings are not included with End User Access.
- (D) Intercept arrangements are not included with End User Access.

4.3 Undertaking of the Telephone Company

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

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.4 Payment Arrangements and Credit Allowance

(A) Minimum Period

The minimum period for which EUCL End User Access is provided and for which charges are applicable is the same as the service with which it is associated.

- (1) Those EUCL's associated with a local exchange telephone service will have the same minimum period as described in the exchange tariff for the associated service.

(B) Cancellation of Application

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

(C) Changes to Orders

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

(D) Allowance for Interruptions

When End User Access Service is interrupted, the credit allowance for interruptions as set forth in Section 2.4.3, preceding, applies.

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.4 Payment Arrangements and Credit Allowance (Cont'd)

(E) Temporary Suspension of Service

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

4.5 Rate Regulations

(A) End User Access charges will be billed to the End User of the associated local telephone exchange service.

(B) The EUCL Business - Multi-line rate applies on a per line basis only to multi-line business subscribers, interstate WATS lines and intrastate WATS lines. Multi-line business subscribers include those end users who are provided more than one local exchange business service including semipublic service by the Telephone Company. The EUCL-Multiline Business rate will be assessed when a Payphone Service Provider obtains an exchange service line for the purposes of offering pay telephone service. (N)

(C) The EUCL charges for individual line or trunk shown in both Sections 4.6(A) and 4.6(B), following, apply to each residence, single line business or single line semipublic service provided to end users receiving service pursuant to the local exchange tariff. (N)

ACCESS SERVICE

4. End User Access Service (Cont'd)

4.5 Rate Regulations (Cont'd)

(D) For business Centrex CO service lines or trunks installed or on order prior to July 28, 1983, the End User Common Line (EUCL)-Centrex CO rate as set forth in Section 4.6(A), following, applies to each line or trunk. Centrex CO service ordered on or after July 28, 1983 is subject to the rate described in Section 4.6(A), following, for Centrex CO.

4.6 Rates and Charges

The rates for End User Access are:

(A)	<u>End User Common Line (EUCL) - Business</u>	Rates Per <u>Month</u>	
	Multi-line, each individual line or trunk	\$9.20	
	Centrex CO, each individual line or trunk Installed or on order before July 28, 1983	\$9.20	
	Ordered on or after July 28, 1983	\$9.20	
	Single line, each individual line	\$6.50	
	<u>End User Common Line (EUCL) - Residence</u>		(T)
	Single line, each individual line	\$6.50	
(B)	<u>Federal Universal Service Charge (FUSC)</u>		(N)
	Regulations concerning the Federal Universal Service Charge are set forth in Section 3 preceding. Rates and charges are the same as those set forth in Section 17.1.3(A) of the NECA Tariff F.C.C. No. 5.		 (N)

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service

5.1 General

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

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.

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 Section 5.2, following, the customer must also provide:

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

5.1.2 Provision of Other Services

Other services as described in Section 9 following, may be ordered in conjunction with the order for Access Service. All rates and charges set forth in Section 9 following, will apply in addition to the rates and charges for the Access Service with which they are associated. (C)

ACCESS SERVICE5. Ordering Options for Switched and Special Access Service (Cont'd)5.1.2 Provision of Other Services (Cont'd)

International blocking service is provided to end users as described in Section 9.3.3, following. The nonrecurring charge set forth in Section 6.9.1, following, is applicable as described in Section 9.3.3, following.

5.2 Access Order

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

- Switched Access Service as set forth in Section 6., following.
- Special Access Service as set forth in Section 7., following.
- Other Services as set forth in Section 9., following.

When ordering Switched Access service, the customer must specify whether the service is to be provided as (1) Direct Trunked Transport to a tandem which connects with Tandem Switched Transport from the tandem to the end office, or (2) Tandem Switched Transport to the end office. When all or a portion of service is ordered as Direct Trunked Transport, the customer must specify the type and quantity of Direct Trunked Transport facility (e.g., Voice Grade or High Capacity DS1).

The customer must also specify the type of Entrance Facility (e.g. Voice Grade or High Capacity) to be used for Switched Access. High Capacity Facilities are available only in certain end offices where technologically feasible. For High Capacity Entrance Facility, the customer must specify the facility assignment and the channel assignment for each trunk.

When ordering Switched Access Service to be combined with High Capacity Special Access Service, the customer must specify the facility assignment and the channel assignment.

Direct Trunked Transport is available at the tandem. All other end offices are identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4. as not having the capability to provide Direct Trunked Transport. Direct Trunked Transport is not available: (1) from end offices that lack recording or measurement capability, and (2) from Non-Service Switching Point (SSP) equipped end offices that cannot accommodate direct trunking of originating Toll Free Number calls.

(C)

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ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

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

When the customer has both Tandem Switched Transport and Direct Trunked Transport at the same end office, the customer will be provided Alternate Traffic Routing as set forth in Section 6.3.4(A)(1)(k), following.

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

(A) Feature Group C and Feature Group D Switched Access Service

- (1) The Telephone Company end office where service is requested.
- (2) The number and type of busy hour minutes of capacity (BHMC) requested.
- (3) The customer designated premises where service is requested.
- (4) Any Customer Identification Function for 900 Access Service options requested.
- (5) When Feature Group C or Feature Group D Switched Access Service is ordered with the Customer Identification Function for 900 Access Service optional feature, the initial order for the Customer Identification Function for 900 Access Service optional feature shall specify the NXX code(s) to be translated within the entire LATA or Market Area. The initial and subsequent orders to add, change, or delete 900 NXX codes shall be placed separately or in combination with orders to change Feature Group C and Feature Group D Switched Access BHMC. Customer assigned NXX codes which have not been ordered will be blocked.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order

(A) Feature Group C and Feature Group D Switched Access Service (Cont'd)

- (6) For Toll Free Number Data Base Access Service, as described in Section 6.3.4(A) following, the customer must order FGC or FGD to those access tandems or end offices designated as Service Switching Points (SSP) for Toll Free Number Data Base Access Service in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4. Direct trunk routes can only be provided from end offices equipped to query centralized data bases. All traffic originating from end offices not equipped to provide SS7 signalling and routing require routing via an access tandem where SSP functionality is available. (C)
- (7) Customers other than AT&T may, at their option, order FGD by specifying the number of trunks desired between customer designated premises and a host office 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 further facility requirements. (C)
- (8) Dedicated, or Direct Trunked Local Transport Access Service will be ordered from the Telephone Company host office. All other end offices are remote offices, and are listed in the NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff F.C.C. No. 4. as wire center(s) incapable of measuring and recording.
- (9) A projected Percentage of Interstate Use (PIU) as set forth in Section 2.3.9, preceding.

(B) Operator Transfer Service

For Operator Transfer Service ordered in conjunction with FGD, as specified in Section 6.3.4(A)(3)(b), following, the customer must specify the number of trunk(s) ordered between its premises and the Telephone Company Operator Services

(Y) Issued under Special Permission No. 96-176 of the Federal Communications Commission.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

(B) Operator Transfer Service (Cont'd)

Position System. Operator Transfer trunk(s) are used to carry originating Operator Transfer traffic only, i.e. the end user dials only the 0 digit with no additional digits.

(C) Busy Line Interrupt (BLI) and Verification (BLV) Service

BLI and BLV Services are provided to customers by Telephone Company operators. Customers access Union operators on Terminating FGC and FGD trunks, using an inward code.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

(C) Special Access Services

- (1) The type of service requested (Metallic, Voice Grade, etc.)
- (2) The customer designated premises or hubs involved.
- (3) The channel interface, technical specification package and options desired.
- (4) Where the Special Access Service is exempt from the Special Access Surcharge as set forth in Section 7., following, the customer shall furnish with the order the certification as set forth in Section 7., following.
- (5) When the requested Special Access Service will be used for both state and interstate traffic, the customer must certify that the traffic consists of more than ten percent interstate traffic.
- (6) Special Access Service may be ordered for connection with FGD Switched Access Service at Telephone Company designated WATS Serving Offices (WSOs) for the provision of WATS or WATS-type Services and may be ordered separately by a customer other than the customer which orders the FGC or FGD Switched Access Service. For the Special Access Service the customer shall specify the customer designated premises at which the Special Access Service terminates, the type of line (i.e., two-wire or four-wire), the type of calling (i.e., originating, terminating, or two way) and the type of Supervisory Signaling.

When the optional screening, switching and/or recording functions are not provided at the customer serving wire center, Channel Mileage, as set forth in Section 7.1.1(B), following, must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

(D) For Feature Group C and Feature Group D with SS7 Signaling, in addition to the information listed in (C), preceding, the customer shall specify:* (T)

- (1) A reference to existing signaling connections or reference to a related signaling connection order.
- (2) SS7 Signaling Local Switching options, if any.

* SS7 Signalling is available only where technically feasible. (N)

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.2 Access Order (Cont'd)

(D) For Feature Group C and Feature Group D with SS7 Signaling, in addition to the information listed in (C), preceding, the customer shall specify: (Cont'd)

(3) The number of BHMC or trunks (for customers other than providers of MTS or WATS) required for or to be converted to an SS7 Signaling capability.

(4) Optional features as specified in Section 6. (N)

5.3 Traffic Engineering Responsibilities

(A) Determination of Busy Hour Minutes of Capacity (BHMC)

It is the responsibility of the customer to determine the BHMC when ordering FGC, FGD, or CCSAC Switched Access Service.

The BHMC may be determined by the customer in the following manner. For each day (8 am to 11 pm, Monday through Friday, excluding national holidays), the customer shall determine the highest number of minutes of use for a single hour (e.g., 55 minutes in the 10-11 AM hour). The customer shall, for the same hour period (i.e., busy hour) for each of twenty consecutive business days, pick the twenty consecutive business days in a calendar year which add up to the largest number of minutes of use. Both originating and terminating minutes shall be included. The customer shall then determine the average busy hour minutes of capacity (i.e., BHMC) by dividing the largest number of minutes of use figure for the same hour period for the consecutive twenty business day period by 20. This computation shall be performed for each end office the customer wishes to serve. The total BHMC by type for each end office will be converted to transmission paths using standard Telephone Company traffic engineering methods.

(B) Determination of SS7 Signaling Connections

For Feature Group C or Feature Group D with SS7 Signaling, the customer shall work cooperatively with the Telephone Company or its agent for CCSAC interconnection to determine the number of signaling connections required to handle its signaling traffic.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.4 Access Order Service Intervals

To the extent the Access Service can be made available with reasonable effort, the Telephone Company will provide Access Service in accordance with the customer's requested interval. The Telephone Company is not responsible for any delays caused by any other connecting exchange telephone company in the provision of service to the customer's point of termination.

If in order to meet the customer's requested service date, work must be performed outside scheduled work hours, Additional Labor charges as described in Section 9. will apply.

5.5 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 that additional labor and/or engineering charges will apply. If the customer still desires the Access Order modification and agrees to any additional charges which may apply, the Telephone Company will schedule a new service date. Additional labor or engineering charges as described in Section 9., following, will apply.

(A) Service Date Change

Access Order service dates 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 cancelled by the Telephone Company and reissued. The appropriate cancellation charges as set forth in Section 5.6,

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.5 Access Order Modifications (Cont'd)

(A) Service Date Change (Cont'd)

following, will apply. If the Telephone Company determines it can accommodate the customer's request with the normal work force during normal business hours and without delaying service dates for orders of other customers, a new service date may be established that is prior to the original service date. No charges will apply.

If the requested service date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the request, the customer will be notified by the Telephone Company that Additional Labor Charges as described in Section 9., following, may apply.

(B) Change in Lines or Capacity

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

Any decrease in the number of ordered Special Access Service channels or Switched Access Service busy hour minutes of capacity will be treated as a partial cancellation and the charges as set forth in Section 5.6, following, will apply.

5.6 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

ACCESS SERVICE5. Ordering Options for Switched and Special Access Service (Cont'd)5.6 Cancellation of an Access Order (Cont'd)

(A) (Cont'd)

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. If the customer is unable to accept Access Service within 30 days after the service date, at the customer's option, service will be cancelled and charges set forth in (B), following, will apply, or billing for the access service will commence on the 31st day after the service date.

(B) When a customer cancels an Access Order, a Cancellation Charge will apply as follows:

(1) Installation of Switched or Special Access Service facilities is considered to have started when the Telephone Company incurs any cost in connection with the installation. Where installation of access facilities has been started prior to the cancellation, the charges specified in (a) or (b), following, whichever is less, shall apply.

(a) A charge equal to the nonrecoverable cost of equipment and material ordered, provided or used, plus the nonrecoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, right-of-way and other associated costs less actual net salvage received after disposal of facilities.

(b) The charge for the minimum period of Switched or Special Access Service ordered by the customer.

(2) Where the customer cancels an Access Order prior to the start of installation of access facilities, no charges shall apply.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.6 Cancellation of an Access Order (Cont'd)

- (C) If the Telephone Company misses a service date by more than 30 days due to circumstances over which it has direct control (excluding, e.g., acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

5.7 Selection of Facilities for Access Orders

The Telephone Company will make a reasonable effort to accommodate a customer request for a specific transmission path. The Telephone Company will make the final determination as to transmission paths utilized in the provision of service.

5.8 Minimum Period

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

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

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

- (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 Section 6.8.4, following.

Switched Access usage rated services (i.e., End Office, Common Line, Tandem Switched Transport, and Residual Interconnection Charge) have no minimum period. The minimum period for which all other Access Service is provided and for which charges are applicable, is one month.

- (B) For Special Access Service and flat rated Switched Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in Section 7.4, following.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

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

- (A) Access Service provided by more than one Telephone Company are Services where one end of the Local Transport or Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company.

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

(1) Single Company Billing

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

- (a) For Switched Access Services the customer will place the order with the Telephone Company in whose territory the first point of switching is located. The first point of switching for FGC and FGD is the end office.

When the first point of switching is not in the same Telephone Company's territory as the Interexchange Carrier premises, the customer must supply a copy of the order to the Telephone Company in whose territory the Interexchange Carrier premises is located.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.9 Access Orders for Services Provided by More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(1) Single Company Billing (Cont'd)

(b) For Special Access Services without the use of a hub, the customer will place the order with the Telephone Company in whose territory the customer designated premises is located.

(c) For Special Access Services with a hub, the customer will place the order with the Telephone Company in whose territory the hub is located.

(B) Multiple Company (Interconnection Point) Billing

Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) (IP) with the other Telephone Company(s). The interconnection point(s) and Billing Percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in the NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff F.C.C. NO. 4. Each Telephone Company will bill the customer for its portion of the service as set forth in Section 2.4.5, preceding. All other appropriate charges in each Telephone Company tariff are applicable.

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

Customers (other than AT&T) may order FGD in trunk quantities desired between the customer designated premises and the access tandem.

ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)

5.9 Access Orders for Services Provided by More Than One Telephone Company (Cont'd)

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

- (2) Except for Special Access Service provided with the use of a hub, the customer may place the order for a Special Access Service with either Exchange Telephone Company.
- (3) For Special Access Service involving a hub(s), the customer must place the order with the Telephone Company in whose territory the hub(s) is located.
- (4) For Special Access Service to be interconnected with Switched Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS or WATS-type Services, the customer must place an order with each Telephone Company in whose territory the end office and the WATS Serving Office are located, if they are not collocated.
- (5) For initiation, additions, changes or deletions to the 900 NXX code(s), the customer must place an order with the Telephone Company who provides the Customer Identification Function for 900 Access Service. The customer must also provide a copy of the order to the Telephone Companies subtending the office providing Customer Identification.

For the service(s) ordered as set forth, preceding, the customer must also supply a copy of the order to the Telephone Company in whose operating territory a customer designated premises is located and any other Telephone Company(s) involved in providing the service.

ACCESS SERVICE6. Switched Access Service6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a communication path between a customer's premises and an end user's premises. It provides for the use of common terminating, switching and trunking facilities and common subscriber plant 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. Specific references to material describing the elements of Switched Access Service are provided in Section 6.2, following.

Rates and charges for Switched Access Service depend generally on its use by the customer. Rates and charges for Switched Access Service are set forth in Section 6.9, following. The application of rates for Switched Access Service is described in Section 6.8, following.

The provision of each Feature Group requires Local Transport facilities, including an Entrance Facility where required, and the appropriate End Office functions. In addition, Special Access Service may, at the option of the customer, be connected with Feature Groups C or D at Telephone Company designated WATS Serving Offices.

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. The technical specifications for the Entrance Facility and Direct Trunked Transport are the same as those set forth in Section 7., following, for Voice Grade and High Capacity services. 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 11., following.

6.2 Rate Categories

There are four rate categories which apply to Switched Access Service:

- Local Transport
- End Office
 - Local Switching
- Toll Free Number Data Base Access Service
- Common Line (described in Section 3. of the NATIONAL EXCHANGE CARRIER ASSOCIATION F.C.C No. 5 (Access Service)

(C)

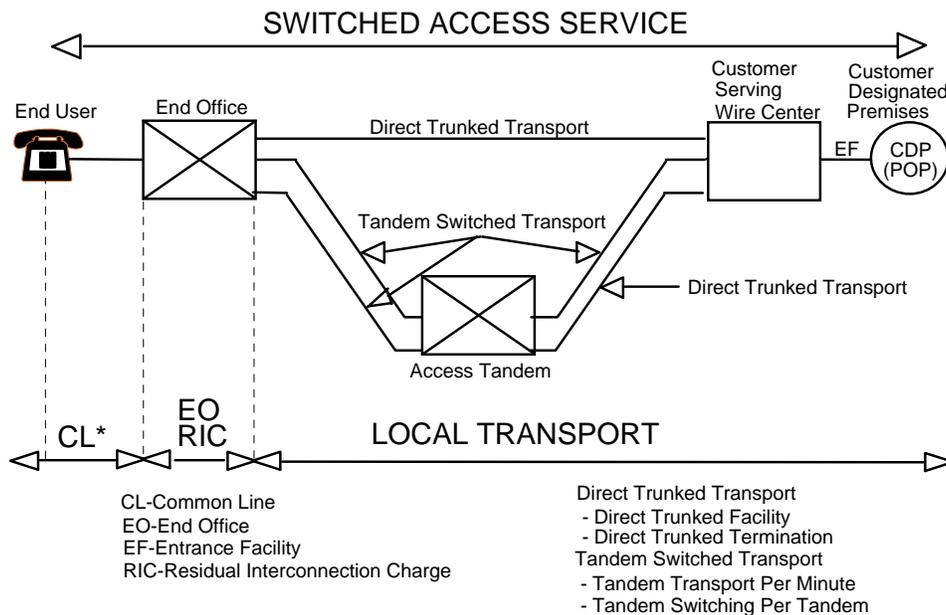
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

The Feature Groups offered by the Telephone Company are described in Section 6.3, following. Premium rates apply for all Feature Group C or Feature Group D Switched Access connections on an access minute basis. Originating FGC or FGD access is available to all customers when used to provide the Interim NXX Customer Identification optional feature. Transitional rates will apply to all non AT&T originating Interim NXX access minutes. Access minutes are determined as described in Section 6.8.5, following. Premium rate classifications are described in Section 6.8.1(B), following.. The following diagram depicts a generic view of the components of Switched Access Service and the manner in which the components are combined to provide a complete Access Service.



*Common Line access is provided under Section 3. of the NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff F.C.C. NO. 5 (Access Service).

(Z)

ACCESS SERVICE6. Switched Access Service (Cont'd)6.2 Rate Categories (Cont'd)(A) Local Transport

Local Transport provides the transmission and tandem switching facilities between the customer designated premises and each end office switch of the Telephone Company where the customer's traffic is switched when originating and terminating the customer's traffic. Some Local Transport rate elements are distance sensitive, while others are non-distance sensitive.

If the customer utilizes the facilities of another connecting exchange carrier to access the Telephone Company end office switch for the provision of switched access service, the Local Transport charge will provide facilities between the end office switch and the interconnection point with the connecting exchange carrier.

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company in accordance with the customer's order specifying dedicated or common facilities. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the customer's designated premises) and in the terminating direction (from the customer's designated premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any type of plant capable of the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3,000 HZ. The customer must specify the choice of facilities (ie., Voice Grade 2- or 4-wire or High Capacity DS1 or DS3) to be used in the provision of the Direct Trunked Transport or Entrance Facility.

The customer must specify when ordering (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, (2) if Direct Trunked Transport is ordered, the type of facilities to be used (i.e., Voice Grade or DS1), (3) the type of Entrance Facility, (4) the directionality of the service, and (5) when multiplexing is required, the hub(s) at which the multiplexing will be provided. Additionally, when service is to be routed through an access tandem switch, the customer must specify whether the facility between the serving wire center and the tandem is to be provided as Direct Trunked Transport or Tandem Switched Transport.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

The Telephone Company will work cooperatively with the customer to develop routing and other local transport arrangements.

In Host/Remote configurations, the Tandem Switched Termination rate will always apply for traffic routed between the Host and Remote offices, regardless of the type of service ordered between the Serving Wire Center and the Host office.

The Telephone Company will designate the serving wire center. The designated serving wire center will normally be that wire center which provides dial tone to the Telephone Company equal access tandem office identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4.

When the customer has both Tandem Switched Transport and Direct Trunked Transport at the same end office, the customer will be provided Alternate Traffic routing, where available, as set forth in Section 6.3.4(A)(1)(k), following.

Direct Trunked Transport is available at all end offices except those identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4, as not having the capability to provide Direct Trunked Transport. Direct Trunked Transport is not available: (1) from end offices that provide equal access through a Centralized Equal Access arrangement, (2) from end offices that lack recording or measurement capability, and (3) for originating Toll Free Number calls from non-Service Switching Point (SSP) equipped end offices that can not accommodate direct trunking of originating Toll Free Number calls.

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ACCESS SERVICE6. Switched Access Service (Cont'd)6.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)

Local Transport is provided at the rates and charges set forth in Section 6.9.2, following. The application of these rates with respect to individual Feature Groups is as set forth in Section 6.3, following. When more than one Telephone Company is involved in providing the Switched Access Service, the Local Transport rates are applied as set forth in Section 2.4.5, preceding.

The Local Transport Rate Category includes five classes of rate elements: (1) Entrance Facility, (2) Residual Interconnection Charge, (3) Tandem Switched Transport, (4) Multiplexing, and (5) Direct Trunked Transport. Not all charges will apply for all issuing carriers.

(1) Non-Distance Sensitive Rate Elements(a) Entrance Facility

The Entrance Facility recovers a portion of the costs associated with the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Entrance Facility is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the customer designated premises and the type of signaling capability, if any.

Two types of Entrance Facility are available: (1) Voice Grade 2- or 4- wire (an analog channel with an approximate bandwidth of 300 to 3,000 hz), and (2) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps). The minimum period for which a DS1 Entrance Facility is provided is twelve months.

One charge applies for each Entrance Facility that is terminated at a customer designated premises. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Non-Distance Sensitive Rate Elements (Cont'd)

(a) Entrance Facility (Cont'd)

At customer request, their Local Transport may be connected to the Entrance Facility of another customer, providing the other customer submits a Letter of Authorization for this connection and assumes full responsibility for the cost of the Entrance Facility.

(b) Residual Interconnection Charge

The Residual Interconnection Charge recovers the costs associated with Local Transport that are not recovered by the Entrance Facility, Direct Trunked Transport, Tandem Switched Transport, or Multiplexing rates. The Residual Interconnection Charge applies to all access minutes of use (i.e., both Tandem Switched and Direct Trunked).

(c) Tandem Switched Transport

The Tandem Switched Transport rate elements recover a portion of the costs associated with the communications path between the serving wire center and the end office between the tandem and the end office on circuits that are switched at a tandem switch, and between host and remote switching offices. 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 the end office.

Tandem Switched Transport rates consist of a Tandem Switching rate and a Tandem Transport rate.

(M)

(M) Material formerly appearing on this page now appears on 1st Revised Page 69.1.3.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Non-Distance Sensitive Rate Elements (Cont'd)

(c) Tandem Switched Transport (Cont'd)

(1) Tandem Switching

(M)(T)

The Tandem Switching rate recovers a portion of the costs of switching traffic through an access tandem. The Tandem Switching rate described in Section 6.9.2(C), following, is applied on a per access minute per tandem basis for all originating and all terminating minutes of use switched at the tandem. Tandem locations are identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4 (Wire Center Information).

(M)

(2) Tandem Transport

(T)

The Tandem Transport rate recovers a portion of the costs of the circuit equipment that is necessary for the termination of each end of the Tandem Switched Transport. The Tandem Transport rate also recovers a portion of the costs of the transmission facilities, including intermediate transmission circuit equipment, between the end points of the interoffice circuits. The Tandem Transport rate specified in Section 6.9.2(C), following, is applied on a per access minute basis (for all originating and terminating minutes of use routed over the facility) for each measured segment of the Tandem Switched Transport (remote office to host office, end office to serving wire center or end office to tandem). This rate applies from host office to remote office, even when Direct Trunking is ordered from the Serving Wire Center to the host office.

(M)

(M) Material formerly appearing on Original Page 69.1.2 now appears on this page and material formerly appearing on this page now appears on Original Page 69.1.4.

ACCESS SERVICE

6. Switched Access Service (Cont'd) (M)6.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Non-Distance Sensitive Rate Elements (Cont'd)(c) Tandem Switched Transport (Cont'd)(2) Tandem Transport (Cont'd)

For issuing carriers granted a waiver from restructuring their local transport rates in accordance with CC Docket 91-213, the Tandem Transport rate only applies once for each transported access minute, and thus, does not apply separately for the segment from host office to remote office.

(d) Multiplexing

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

Multiplexing is only available at wire centers identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4 (Wire Center Information).

(M) Material formerly appearing on Original Page 69.1.3 now appears on this page.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Distance Sensitive Rate Elements

(a) Direct Trunked Transport

The Direct Trunked Transport rate elements recover a portion of the cost associated with a communications path between the serving wire center and the end office or serving wire center and a tandem on circuits dedicated to the use of a single customer.

Direct Trunked Transport is available to all tandems and to all end offices except those identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4 (Wire Center Information) as not having the capability to provide Direct Trunked Transport.

Direct Trunked Transport is not available: (1) from end offices that lack recording or measurement capability, and (2) for originating Toll Free Number calls from non-Service Switching Point (SSP) equipped end offices that can not accommodate direct trunking of originating Toll Free Number calls. (C)

Two types of Direct Trunked Transport are available: (1) Voice Grade (an analog channel with an approximate bandwidth of 300 to 3,000 Hz), and (2) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps). The minimum period for which a High Capacity DS1 Direct Trunked Transport is provided is twelve months. (C)

DS1 Direct Trunked Transport can not be terminated at end offices that are not identified as hub offices that provide DS1 to Voice Grade multiplexing or are not electronic end offices. Offices that provide multiplexing are identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4 (Wire Center Information).

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Distance Sensitive Rate Elements (Cont'd)

(a) Direct Trunked Transport (Cont'd)

Direct Trunked Transport rates, as described in Section 6.9.2(D), following, consist of a Direct Trunked Facility rate which is applied on a per mile basis and a Direct Trunked Termination rate which is applied at each end of each measured segment of the Direct Trunked Facility (e.g., at the end office, hub, and serving wire center). When the Direct Trunked Facility mileage is zero, neither the Direct Trunked Facility rate nor the Direct Trunked Termination rate will apply.

The Direct Trunked Facility rate recovers a portion of the costs of the transmission facilities, including intermediate transmission circuit equipment, between the end points of the interoffice circuits.

The Direct Trunked Termination rate recovers a portion of the costs of the circuit equipment that is necessary for the termination of each end of the Direct Trunked Facility.

ACCESS SERVICE6. Switched Access Service (Cont'd)6.2 Rate Categories (Cont'd)(A) Local Transport(3) Interface Groups

Ten Interface Groups are provided for terminating the Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching may at the option of the customer be provided with optional features as set forth in (2), following. The interface groups described in Section 11.1, following, and the optional features described in (2), following, are nonchargeable features. No additional charges other than the rate for Local Transport described in Section 6.9.2, following, apply.

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

Technical specifications concerning the available interface groups are set forth in Section 11.1, following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(A) Local Transport

(4) 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 Local 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 set forth in Section 11.1.12, following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 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 rate element.

(1) Local Switching

The Local Switching (LS2) rate element provides the local end office switching functions associated with Feature Group C and Feature Group D and the transport termination for the trunk side arrangements which terminate the Local Transport facilities. The LS2 rate applies to FGC and FGD Switched Access Service. Rates for Local Switching are set forth in Section 6.9.3, following.

(2)

(3) Directory Assistance Information Surcharge

Directory Assistance Information Surcharge rates are assessed to a customer based on the total number of access minutes. Directory Assistance Information Surcharge rates are as set forth in Section 6.9.3(A), following.

(C)

(C) Toll Free Number Data Base Access Service

(C)

Toll Free Number Data Base Access Service is described in Section 6.3.4(A)(3)(a), following. Rates for this service are described in Section 6.9.4, following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Rate Categories (Cont'd)

(B) Reserved for Future Use

6.3 Provision and Description of Switched Access Service Feature Group

Switched Access Service is provided in two Feature Group arrangements:

- Feature Group C
- Feature Group D

The Local Transport, End Office, and Common Line rate categories described in Section 6.2., preceding, apply to all Switched Access Service.

6.3.1 Manner of Provision

Switched Access is furnished in either quantities of lines or trunks, or in busy hour minutes of capacity (BHMCs). FGC and FGD Access are furnished on a BHMC basis and on a per trunk basis as set forth in Section 5.3, preceding.

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

There are two major BHMC categories identified as Originating and Terminating. Originating BHMCs represent access capacity for carrying traffic from the end user to the customer. Terminating BHMCs represent access capacity for carrying traffic from the customer to the end user. When ordering capacity for FGC and FGD Access, the customer must at a minimum specify access capacity in terms of Originating BHMCs and/or Terminating BHMCs.

For Feature Groups C and D, when ordered on a per trunk basis, the customer specifies the type of transport facilities and the number of channels in the order for service.

ACCESS SERVICE6. Switched Access Service (Cont'd)6.3 Provision and Description of Switched Access Service (Cont'd)6.3.1 Manner of Provision (Cont'd)

For Tandem Switched Transport, the Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Feature Group C and D busy hour minutes of capacity ordered. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in Section 5.3(A), preceding) for the end office for each Feature Group ordered from a customer's designated premises. The total busy hour minutes of capacity by type (e.g., originating, terminating, IDDD, Operator) 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 the end office switches only, or (3) the use of the tandem switches only.

6.3.2 Feature Group C (FGC)(A) Description

- (1) FGC is provided at all Telephone Company end office switches. It is provided to the customer (i.e., provider of MTS) on a direct trunk basis or via Telephone Company designated access tandem switches. Originating FGC Access is available to all customers when used to provide the Interim NXX Translation optional features or Toll Free Number Data Base Access Service. Terminating FGC access is available to all customers other than providers of MTS and WATS when such access is used in conjunction with the provision of the Interim NXX Translation optional feature or Toll Free Number Data Base Access, but only for purposes of testing. Feature Group C Switching is provided at an end office switch unless Feature Group D end office switching is provided in the same office. When FGD Switching is available, FGC switching will not be provided.

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ACCESS SERVICE6. Switched Access Service (Cont'd)6.3 Provision and Description of Switched Access Service (Cont'd)6.3.2 Feature Group C (FGC) (Cont'd)(A) Description (Cont'd)

- (2) FGC is provided as trunk side switching. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, immediate dial pulse signaling is provided. When FGC with SS7 signaling is ordered, no inband signaling is provided.
- (3) FGC switching is provided with multifrequency address signaling or out of band SS7 signaling where technically feasible. With multifrequency address signaling and SS7 signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) Feature Group C switching is provided at all end office switches unless Feature Group D end office switching is provided in the same office. When FGD switching is available, FGC switching will not be provided. FGC is provided at Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches.

Feature Group C switching is furnished to providers of MTS and WATS. Additionally, originating Feature Group C switching is available to all customers when used to provide the Interim NXX Translation optional feature of

ACCESS SERVICE

6. Switched Access Service

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

Reserved for Future Use

ACCESS SERVICE

6. Switched Access Service (Cont'd)

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

6.3.2 Feature Group C (FGC) (Cont'd)

(A) Description (Cont'd)

(4) (Cont'd)

Toll Free Number Data Base Access Service. (C)
Terminating Feature Group C switching is available to all customers who are not MTS and WATS providers only when such terminating access is for purposes of testing Feature Group C facilities provided in conjunction with the Interim NXX Translation optional feature or Toll Free Number Data Base Access Service. (C)

(5) The end user must dial a one digit access code to access the IC. In addition to the access code, 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.

(6) FGC switching when used in the terminating direction may be used to access valid telephone numbers in the local exchange area of the terminating end office switch.

(7) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGC switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGC switching arrangement provided. Different types of FGC or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

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

6.3.2 Feature Group C (FGC) (Cont'd)

(A) Description (Cont'd)

(8) Unless prohibited by technical limitations the providers of MTS and WATS may, at their option, combine Interim NXX Translation and/or Toll Free Number Data Base traffic in the same trunk group arrangement with their non-Interim NXX Translation traffic. (C)
When required by technical considerations, or when provided to a customer other than the provider of MTS and WATS, or at the request of the customer (i.e., provider of MTS and WATS), a separate trunk group will be established for Interim NXX Translation traffic and/or Toll Free Number Data Base. (C)

(B) Testing Capabilities

FGC 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, 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. Additional testing services are available as set forth in Section 9., following, for FGC.

(1) 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.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.3.2 Feature Group C (FGC) (Cont'd)

(B) Testing Capabilities (Cont'd)

(1) Acceptance Testing (Cont'd)

When FGC with SS7 Signaling option is ordered, network compatibility and other operational tests will be performed cooperatively by the customer, the Telephone Company, and any agents contacted to provide CCSAC.

(2) Routine Testing

At no additional charge, the Telephone Company will, at the customer's request, test after installation on an automatic or manual basis, 1,004 Hz loss, C-message noise and Balance (Return loss). In the case of automatic testing, the customer shall provide remote office test lines and 105 test lines with associated responders or their functional equivalent.

(C) Design and Traffic Routing

For Feature Group C, the Telephone Company shall design and determine the routing of Switched Access Service. Additionally, for Tandem Switched Transport the Telephone Company will design and determine the routing from the first point of switching to the end office. 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 actual traffic patterns.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.3 Feature Group D (FGD)(A) Description

- (1) FGD is provided at Telephone Company designated office switches whether routed directly or via Telephone Company designated electronic access tandem switches. The Telephone Company will designate the first point(s) of switching for FGD services where the Telephone Company elects to provide equal access through a centralized equal access arrangement. Those Telephone Company offices providing equal access through centralized arrangements are identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4.
- (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. When FGD with SS7 signaling is ordered, no inband signaling is provided.
- (3) FGD switching is provided with multifrequency address signaling or out of band SS7 signaling. With multifrequency address signaling and SS7 signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) FGD switching, when used in the originating direction, 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 multifrequency, dial pulse address signals, or common channel 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 Local Transport provided.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.3 Feature Group D (FGD) (Cont'd)(A) Description (Cont'd)

- (5) FGD switching, when used in the terminating direction, may be used to access valid NXX's 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 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.

Additionally, non-access 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 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes, or 10XXX access codes.

Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when FGD switching is combined with Directory Assistance switching. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups C or D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.3 Feature Group D (FGD) (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 FGD switching is provided. When required by technical limitations, 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.
- (7) The access code for FGD switching is a uniform access code of the form 10XXX. 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 arranged for presubscription to that customer, as set forth in Section 9.3.3, 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-XXXX, NPA + NXX-XXXX, 0 or 1+ NPA + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD, 01 + CC + NN or 011 + CC + NN).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.3 Feature Group D (FGD) (Cont'd)(A) Description (Cont'd)

(7) (Cont'd)

When the 10XXX 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.

Unless otherwise ordered by the F.C.C., when equal access is provided through a Centralized Equal Access arrangement, the 10XXX access code may not be available in certain equal access offices. Those offices which provide FGD Switched Access Service without the 10XXX access code are identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4.

(8) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing 10XXX uniform access code. Each telephone exchange service line may be marked with a code to identify which 10XXX code its calls will be directed to for interLATA service.

(9) Unless prohibited by technical limitations, the customer's Interim NXX traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's non-Interim 900 traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for Interim NXX traffic.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

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

(A) Description (Cont'd)

(10) Unless prohibited by technical limitations, the customer's Interim NXX Translation and/or Toll Free Number Data Base traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's non-Interim NXX Translation and/or Toll Free Number Data Base traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for Interim NXX Translation and/or Toll Free Number Data Base traffic.

(C)

(C)

(C)

(B) 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.

When FGD with SS7 signaling option is ordered, network compatibility and other operational tests will be performed cooperatively by the customer, the Telephone Company, and any agents contacted to provide CCSAC.

(1) 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.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

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

(C) Transmission Specifications (Z)

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.
- 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.

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(M) Material formerly appearing on this page now appears on 1st Revised Page 74.3.6.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

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

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

(D) Design and Traffic Routing (Cont'd)

(M)(Z)

For Feature Group D, the Telephone Company shall design and determine the routing of Tandem Switched Access Transport 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.

(M)

For Feature Group D Direct Trunked Transport service, the Telephone Company will determine the routing of switched access service from the point of interface to the first point of switching or, if the customer specifies one or more hub locations for multiplexing, from the point of interface to that hub location, from one hub location to another hub location, and/or from a hub location to the first point of switching.

Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and actual traffic patterns. The Telephone Company will designate the first point(s) of switching and routing.

(M) Material formerly appearing on 1st Revised Page 74.3.5 now appears on this page.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features

(A) Optional Features

(1) Common Switching Nonchargeable Optional Features

(a) Signaling System 7 (SS7) Signaling

This feature provides common channel out of band transmission of address and supervisory SS7 protocol signaling information between the end office switch or the tandem office switching system and the customer's designated premises. This feature is available only in offices where technically feasible as indicated in the NATIONAL EXCHANGE CARRIER ASSOCIATION INC. Tariff F.C.C. NO. 4. The signaling information is transmitted to the Telephone Company designated STP which may be provided by a separate entity. The customer must arrange CCSAC facilities with the entity providing the STP in order to receive SS7 signaling from the Telephone Company. This feature is available with FGC and FGD. This feature will be provided in accordance with the SS7 Interconnect specifications described in Technical Reference TR-TSV-000905.

(N)
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(N)

When a customer orders SS7 Signalling, ANI and/or Calling Party Number will be provided with the SS7 Service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(b) Calling Party Number (CPN)

This feature provides for the automatic transmission of the ten digit directory number, associated with a calling station, 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 number as the calling station's charge number. The ten digit telephone number will be coded as presented, or restricted via a "privacy indicator" for delivery to the called end user. This feature is automatically provided with originating FGC and FGD with SS7 signaling. CPN and SS7 are available only where technically feasible.

(C)
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(C)

(1) Restrictions on Use and Sale of CPN

(a) Interstate access customers of this tariff may use CPN in the following manner:

(N)

- (i) For billing and collection information, for routing, screening, and completing the originating subscriber's call or transaction, or for services directly related to the originating telephone subscriber's call or transaction.

The customer may use CPN to offer a product or service that is directly related to the products or services previously acquired from the customer by the originating subscriber.

(N)(M)

(M) Material formerly appearing on this page now appears on Original Page 74.5.1.1

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(b) Calling Party Number (CPN) (Cont'd)

(1) Restrictions on Use and Sale of CPN (Cont'd)

(N)

(b) Interstate access customers of this tariff may not use CPN in the following manner.

(i) Reusing or selling the telephone number or billing information without first notifying the originating telephone subscriber and obtaining the affirmative consent of such subscriber for such reuse or sale.

(ii) Disclosing (except as permitted in (a), preceding) any information derived from the CPN for any purpose other than 1) performing the services or transactions that are the subject of the originating subscriber's call, 2) ensuring network performance security and the effectiveness of call delivery, 3) compiling, using, and disclosing aggregate information, and 4) complying with applicable law or legal process.

(N)

(M)

(M) Material formerly appearing on 1st Revised Page 74.5 now appears on this page.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(1) Common Switching Nonchargeable Optional Features (Cont'd) (T)

(c) Charge Number Parameter (CNP) (Cont'd)

The Charge Number Parameter is equivalent to the existing ten digit Automatic Number Identification (ANI) available with FGC where technically feasible with MF signalling. (M)(T)
 The CNP provides for the automatic transmission of the ten digit billig number of the calling station and the originating line information. This feature is provided with originating FGC and FGD with SS7 signalling. (T)

(1) Restrictions on Use and Sale of CNP (M)
 (N)

(a) Interstate access customers of this tariff may use CNP in the following manner.

(i) For billing and collection information, for routing, screening, and completing the originating subscriber's call or transaction, or for services directly related to the originating telephone subscriber's call or transaction.

The customer may use CNP to offer a product or service that is directly relatd to the products or services previously acquired from the customer by the originating subscriber.

(N)

(M)

(M) Material formerly appearing on 1st Revised Page 74.5 now appears on this page.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(c) Charge Number Parameter (CNP) (Cont'd)

(1) Restrictions on Use and Sale of CNP (Cont'd)

b) Interstate access customers of this tariff may not use CNP in the following manner:

- i) Reusing or selling the telephone number or billing information without first notifying the originating telephone subscriber and obtaining the affirmative consent of such subscriber for such reuse or sale.
- ii) Disclosing except as permitted in (a), preceding, any information derived from the CNP for any purpose other than 1) performing the services or transactions that are the subject of the originating subscriber's call, 2) ensuring network performance security and the effectiveness of call delivery, 3) compiling, using, and disclosing aggregate information, and 4) complying with applicable law or legal process.

ACCESS SERVICE6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(d) Automatic Number Identification (ANI)

- (1) This option provides the automatic transmission of a seven or ten digit number and information digits to the customer designated 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:
 - (a) all individual transmission paths in a trunk group routed directly between an end office and a customer designated premises or, where technically feasible, with
 - (b) 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 designated premises.
- (2) The seven digit ANI telephone number is generally available with Feature Group C. With Feature Group C, 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 multiparty lines, coin stations, or when an ANI failure has occurred.

(M) Material formerly appearing on Original Page 74.5.1 now appears on this page.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(d) Automatic Number Identification (ANI) (Cont'd)

(3) The ten digit ANI telephone number is only available with Feature Group D. When a customer orders SS7 Signaling, ANI will be automatically provided. In instances where ANI is unavailable, the customer will automatically receive the Charge Number Parameter feature as specified in Section 6.3.4(A)(1)(c), below. 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 except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below). Seven digit ANI is not available with SS7 signaling.

(C)
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(C)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(d) Automatic Number Identification (ANI) (Cont'd)

- (4) With Feature Group C, at the option of the customer, ANI may be ordered from end offices where Telephone Company recording for end user billing is not provided. Additionally, ANI is provided from end offices where message detail recording is not required by the Telephone Company; as with Toll Free Number service. (C)

ANI will be automatically provided, where technically feasible, when a customer orders SS7 Signalling.

- (5) ANI is not provided from FGC end offices where the Telephone Company forwards ANI to its recording equipment. Where ANI cannot be provided, e.g., on calls from 4- and 8-party service, information digits will be provided to the customer.

The information digits identify:

- (a) telephone number is the station billing number - no special treatment required,
- (b) multiparty line - telephone number is a 4- or 8-party line and cannot be identified - number must be obtained via an operator or in some other manner,
- (c) 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,
- (d) hotel/motel originated call which requires room number identification,

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(d) Automatic Number Identification (ANI) (Cont'd)

(5) (Cont'd)

- (e) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and
- (f) 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 generally are available with Feature Groups C and D.

(6) Additional ANI information digits are available with Feature Group D only. They include:

- (a) InterLATA restricted - telephone number is identified line
- (b) InterLATA restricted - hotel/motel line
- (c) InterLATA restricted - coinless, hospital, inmate, etc., line

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(d) Automatic Number Identification (ANI) (Cont'd)

(7) Restrictions on Use and Sale of ANI

a) Interstate access customers of this tariff may use ANI in the following manner:

i) For billing & collection information, for routing, screening, and completing the originating subscriber's call or transaction, or for services directly related to the originating telephone subscriber's call or transaction.

The customer may use ANI to offer a product or service that is directly related to the products or services previously acquired from the customer by the originating subscriber.

ACCESS SERVICE6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(d) Automatic Number Identification (ANI) (Cont'd)(7) Restrictions on Use and Sale of ANI (Cont'd)b) Interstate access customers of this tariff
may not use ANI in the following manner:

- i) Reusing or selling the telephone number or billing information without first notifying the originating telephone subscriber and obtaining the affirmative consent of such subscriber for such reuse or sale.
- ii) Disclosing (except as permitted in (a), preceding), any information derived from the CPN for any purpose other than 1) performing the services or transactions that are the subject of the originating subscriber's call, 2) ensuring network performance security and the effectiveness of call delivery, 3) compiling, using, and disclosing aggregate information, and 4) complying with applicable law or legal process.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(e) Revertive Pulse Address Signaling

This option provides for a dc pulsing arrangement that transmits intelligence in the following manner:

- (1) The equipment at the originating location presents 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 Feature Group C.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(f) Delay Dial Start-Pulsing Signaling

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 off-hook interval and the star-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 Feature Group C.

(g) Dial Pulse Address Signaling

This option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a star-pulsing signal from the customer. It is available with Feature Group C.

(h) Immediate Dial Pulse Address Signaling

This trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer designated premises (in either direction) by means of direct current pulses. It is available with Feature Group C.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(i) Panel Call Indicator Address Signaling

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 Feature Group C.

(j) Service Class Routing

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, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+ or 011+, or Service Access Code (e.g., 900)). It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups C and D.

(k) Alternate Traffic Routing

When the customer orders both Direct Trunked Transport and Tandem Switched Transport at the same end office, 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 the same or a second customer designated premises).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(k) Alternate Traffic Routing (Cont'd)

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 Groups C and D.

When alternate routing is available the FGD traffic will be directly measured. If the Telephone Company cannot measure the traffic, it will be estimated based on a 24-hour period representative of actual routing.

(l) Trunk Access Limitation

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 and where available in electromechanical end offices. It is available with Feature Groups C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(m) Call Gapping Arrangement

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 other 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 Feature Group D.

The customer shall provide the Telephone Company notification of media stimulated mass calling events (e.g. 8XX, 900 option polls). Such notification, if received at least twenty-four hours prior to the event, will enable the Telephone Company to institute call gapping controls, where capability exists, so the controls will be in place when the event begins. Call gapping will be instituted as needed to protect the customer's and Telephone Company's networks. (C)

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ACCESS SERVICE6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(n) International Carrier Option

This option allows for 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 10XXX 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 the Telephone Company end offices or access tandems equipped for International Direct Distance Dialing. It is available with Feature Group D.

(o) Band Advance Arrangement for Use with Special
Access Service Utilized in the Provision of WATS or
WATS-Type Services

This option, which is provided in association with two or more Special Access Service groups, provides for the automatic overflow of terminating calls to a second Special Access Service group, when the first group has exceeded its call capacity. This option is available with Feature Groups C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

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

(p) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices which are designated as WATS Serving Offices. It is available with Feature Groups C and D.

(q) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to sequentially (C) access one of two or more Special Access Services utilized in the provision of WATS or WATS-type services (e.g. Toll Free Number Service Special access services) in the terminating direction, when the hunting number of the Special Access Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company designated WATS Serving Offices. It is available with Feature Groups C and D.

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ACCESS SERVICE6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(r) Uniform Call Distribution Arrangement for Use with
Special Access Service Utilized in the Provision of
WATS or WATS-Type Services

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available Special Access Services utilized in the provision of WATS or WATS-type Services in the hunt group. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups C and D.

(s) Nonhunting Number for Use with Hunt Group
Arrangement or Uniform Call Distribution Arrangement
for Use with Special Access Service Utilized in the
Provision of WATS or WATS-Type Services

This option provides an arrangement for an individual Special Access Service utilized in the provision of WATS or WATS-type Services within a multiline hunt or uniform call distribution group that provides access to that Special Access Service 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 the Telephone Company designated WATS Serving Offices. It is available with Feature Groups C and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(1) Common Switching Nonchargeable Optional Features (Cont'd)(t) Multifrequency Address Signaling

Multifrequency Address Signaling is available as an optional feature with FGC and FGD. This feature provides for the transmission of number information and control signals (e.g., number address signals, automatic number identification) between the end office switch and the customer's premises (in either direction). Multifrequency signaling arrangements make use of pairs of frequencies out of a group of six frequencies. Specific information transmitted is dependent upon feature group and call type (i.e., POTS, coin or operator). This feature is not available in combination with SS7 signaling.

(u) Carrier Selection Parameter (CSP)

This feature provides for the automatic transmission of a signaling indicator which signifies to the customer whether or not the call being processed originated from a presubscribed line. If the line was presubscribed, the indicator will signify if the end user did or did not dial 10XXX. This feature is provided with originating FGD with SS7 signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(2) Transport Termination Non-Chargeable Optional Features

(a) Interim NXX Translation

Interim NXX Translation will be provided in conjunction with FGC and FGD Switched Access Service.

Interim NXX Translation optional feature is an originating offering utilizing trunk side Switched Access Service. The service provides a customer identification function based on the dialed 900 number.

When an 1+900+NXX-XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. If the call originated from an end office switch not equipped to provide the customer identification function, the call will be routed to an office at which the function is available. Once customer identification has been established, the call will be routed to the customer. Calls originating from an end office switch at which the customer identification function is performed, but to which the customer has not ordered Interim NXX Translation, will be blocked.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation
Optional Features (Cont'd)(A) Optional Features (Cont'd)(2) Transport Termination Nonchargeable Optional Features(b) Operator Trunk - Coin, Non-Coin, or Combined Coin
and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C 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.

Coin

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+, 011+ or, respectively. 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(2) Transport Termination Nonchargeable Optional Features (Cont'd)(b) Operator Trunk-Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

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.

Non-Coin

This arrangement provides for the routing of 0+, 0-, 1+, 01+, 011+ or, respectively. Because operator assisted non-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 non-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. 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

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(2) Transport Termination Nonchargeable Optional Features (Cont'd)(b) Operator Trunk-Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

coinless public stations, dormitory or inmate stations, other screening arrangements agreed to between the customer and the Telephone Company.

Combined Coin and Non-Coin

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 011+ or, respectively. Because operator assisted coin and non-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.

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 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 coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(2) Transport Termination Nonchargeable Optional Features (Cont'd)

(c) Operator Trunk-Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as trunk type for Transport Termination. Because it requires inband signaling, this feature is not available with the SS7 Signaling option.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features

(a) Toll Free Number Data Base Access Service (C)

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

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6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features (Cont'd)

(a) Toll Free Number Data Base Access Service (C)
 (Cont'd)

A Basic or Vertical Feature Query charge, as set forth in Section 6.9.4, following, is assessed for each query launched to the data base which identifies the customer to whom the call will be delivered.

The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of Toll Free Number calls by telephone companies to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. (C)

The Vertical Feature Query provides the same customer identification as the basic query plus vertical features which may include: (1) call validation, (ensuring that calls originate from subscribed service areas); (2) POTS translation of Toll Free Number numbers; (3) alternate POTS translation (which allows subscribers to vary the routing of Toll Free Number calls based on factors such as time of day, place or origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)). (C)

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6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features (Cont'd)

(a) Toll Free Number Data Base Access Service (Cont'd) (C)

The manner in which Toll Free Number Data Base Access Service is provided is dependent on the availability of SS7 service at the end office from which the service is provided as outlined following: (C)

When Toll Free Number Data Base Access Service originates at an end office equipped with Service Switching Point (SSP) capability for querying centralized data bases, all such service will be provisioned from that end office. (C)

When Toll Free Number Data Base Access Service originates at an end office not equipped with SSP customer identification capability, the Toll Free Number call will be delivered to the access tandem on which the end office is homed and which is equipped with the SSP feature to query centralized data bases. (C)

Query charges as set forth in Section 6.9.4, following, are in addition to those charges applicable for the Feature Group C and Feature Group D Switched Access Service.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(3) Chargeable Optional Features (Cont'd)(b) Operator Transfer Service

Operator Transfer Service may be provided with Feature Group C or Feature Group D Switched Access Service at Telephone Company designated Operator Services location. Operator Transfer Service is an originating service. The rate is assessed per 0 minus call transferred to a customer's operator. A 0 minus call is considered transferred when the Telephone Company Operator activates the switch transferring the call to the designated customer and the customer acknowledges receipt.

The customer may receive inband, multi-wink, or expanded inband coin control signaling, where available, from end offices served by an Operator Services Access Point. Different signalling types cannot be mixed on a signal trunk group.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features (Cont'd)

(b) Operator Transfer Service (Cont'd)

(i) Rate Regulations

In addition to the Operator Transfer Service charge described previously and in Section 9.3.8(F), following, Feature Group C or Feature Group D Switched Access rates and charges as set forth in Section 6.9, following,

(D)

|

(D)

will apply per minute of use for Operator Transfer Service.

All non-recurring and usage sensitive rates and charges normally applicable to Feature Groups C or D apply to Operator Transfer Service. Additionally, a charge as specified in Section 9.3.8(F), following, is assessed the customer per 0 minus call transferred.

Operator Transfer Service charges, provided for in this tariff, are applied only to those calls actually transferred by the Telephone Company to the customer's operator.

The Customer will be assessed the Operator Transfer Charge per call passed through to either the customer's operator or a Telephone Company provided recording.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features (Cont'd)

(b) Operator Transfer Service (Cont'd)

(i) Rate Regulations (Cont'd)

The Operator Transfer charge will be assessed on the designated Operator Services Provider when the customer designates an Operator Services Provider to handle its operator traffic.

(c) Busy Line Interrupt (BLI) Service and Busy Line Verification (BLV) Service

BLI and BLV Services are provided by Telephone Company operators on inward trunks. BLI and BLV Services are provided only where technically feasible.

BLI and BLV are "inward" operator services provided to customers terminating calls in the Telephone Company's area of service, or in an area for which the Telephone Company is contracted to provide operator services.

Customer operators access the Telephone Company operators using an inward code.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features (Cont'd)

(c) Busy Line Interrupt (BLI) Service and Busy Line Verification (BLV) Service (Cont'd)

(i) Rate Regulations

In addition to the service charges described previously and in Section 9.3.9(E), following, Feature Group C or Feature Group D Switched Access rates and charges as set forth in Section 6.9, following,

(D)
(D)

will apply per minute of use for BLI and BLV Services.

All non-recurring and usage sensitive rates and charges normally applicable to Feature Groups C or D apply to BLI and BLV Services. Additionally, a charge as specified in Section 9.3.9(E), following, applies per verification or interrupt and verification.

BLI and BLV service charges, provided for in the tariff, are applied only to those calls actually verified or interrupted by the Telephone Company operator.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)

6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)

(A) Optional Features (Cont'd)

(3) Chargeable Optional Features (Cont'd)

(d) Flexible Automatic Number Identification (Flex ANI)

(N)

Flex ANI is a Common Switching Optional Feature that enhances the existing Automatic Number Identification (ANI) feature (described in 6.3.4(A)(1)(d) preceding) optional feature by allowing Feature Group D (FGD) customers to receive additional information digits. Flex ANI provides additional values for these information digits over and above the values currently available with ANI and is used to identify additional call types, e.g., calls originating from LEC payphones, competitive payphones, an private virtual networks. Flex ANI can be used to provide Originating Line Screening (OLS) service. OLS service is described in 6.3.4(A)(3)(e).

Flex ANI information digits are two digits in length and are activated through switched software program updates. These codes precede the 10-digit directory number of the calling line and are part of the signaling protocol in equal access end offices. The information digits are outpulsed by the switching system along with the directory number from the originating end office and are sent to the receiving office for billing, routing, or special handling purposes.

Customers who have ANI but do not order Flex ANI, will continue to receive the information digits associated with ANI. Flex ANI digits are assigned by the North American Numbering Plan Administrator. The Telephone Company will make available those information digits that are mutually agreed to by the customer and the Telephone Company.

(N)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Provisions and Description of Switched Access Service Feature Groups (Cont'd)6.3.4 Common Switching Transport Termination and Interim NXX Translation Optional Features (Cont'd)(A) Optional Features (Cont'd)(3) Chargeable Optional Features (Cont'd)(d) Flexible Automatic Number Identification (Flex ANI) (Cont'd)

(N)

Flex ANI is available to customers with FGD Switched Access Service equipped with ANI. Flex ANI is available in suitably equipped end offices as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

A nonrecurring charge, as set forth in 6.9.5, is associated with this optional feature. This nonrecurring charge is assessed by the Telephone company on a per end office, per Carrier Identification Code (CIC) basis.

(e) Originating Line Screening (OLS) Service

The Telephone Company will OLS Service to aggregators and other customers who obtain local exchange service from the Telephone Company under its general or local exchange tariff. OLS service enables customers to determine whether there are billing restrictions on exchange service lines from which a call originates. OLS service delivers codes on operator assisted calls made from aggregator locations to identify, calls originating from privately owned payphones, and inmate locations, etc.

This charge is applied for each exchange service line to which an OLS code is assigned. The customer must specify the number of exchange service lines and each individual telephone number equipped.

(N)

ACCESS SERVICE6. Switched Access Service (Cont'd)6.5 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are two different standard specifications (Types B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is directly routed or via an access tandem. The available transmission specifications are set forth in Section 11.2.1, following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will upon notification by the customer that the data parameters set forth in Sections 11.2.2(A), 11.2.2(B), or 11.2.2(C), following, 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.

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 concerning Switched Access Service are immediate action limits and are set forth in Section 11.2, following. Acceptance limits are set forth in Technical Reference PUB 62500. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Transmission Specifications (Cont'd)

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

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

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer'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.

6.6 Obligation 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:

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Obligation of the Telephone Company (Cont'd)6.6.1 Network Management (Cont'd)

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 Section 2.4.3, preceding.

6.6.2 Design and Traffic Routing of Switched Access Service

The Telephone Company shall design and determine the routing of Switched Access Service. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. 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 to develop routing and other local transport arrangements.

ACCESS SERVICE**6. Switched Access Service (Cont'd)****6.6 Obligation of the Telephone Company (Cont'd)****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 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 non-completion performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. The charges for provision of this data will be determined on an individual case basis.

6.6.4 Trunk Group Measurement 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

The following applies to Switched Access Voice Transmission paths, and does not apply to signaling connections provided with CCSAC. The number of transmission paths for CCSAC 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 Feature Group C or Feature Group D busy hour minutes of capacity ordered. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in Section 6.3.2, preceding) by end office for each Feature Group ordered from a customer's designated 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Obligation of the Telephone Company (Cont'd)6.6.6 Design Blocking Measurement

The Telephone Company will design the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) following and (B) following.

- (A) For Feature Group C, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's designated premises and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (B) The Telephone Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.
 - (1) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

6.6.6 Design Blocking Measurement (Cont'd)

(B) (Cont'd)

(1) (Cont'd)

<u>Number of Transmission Paths Per Trunk Group</u>	<u>Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group</u>			
	<u>15-20 Measurements</u>	<u>11-14 Measurements</u>	<u>7-10 Measurements</u>	<u>3-6 Measurements</u>
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

(2) 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:

<u>Number of Transmission Paths Per Trunk Group</u>	<u>Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group</u>			
	<u>15-20 Measurements</u>	<u>11-14 Measurements</u>	<u>7-10 Measurements</u>	<u>3-6 Measurements</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

ACCESS SERVICE**6. Switched Access Service (Cont'd)****6.6 Obligations of the Telephone Company (Cont'd)****6.6.7 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. 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.

6.7 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2.3, preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.7.1 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

6.7.2 Trunk Group Measurement 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 provided based on previously arranged intervals and format.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.8.1 Application of Rates and Charges

(A) Nonrecurring Charges

Except as noted in Section 6.8.1(A)(2)(a)(1), following, nonrecurring charges apply to each installation of service as a one time charge. Changes to existing services other than administrative changes will be treated as a discontinuance of the existing service and an installation of a new service.

Nonrecurring charges apply to each Switched Access Service installed. FGC and FGD are ordered on a busy hour minutes of capacity basis. The charge is applied for each trunk which must be added in order to provide the requested busy hour minutes of capacity.

(1) Non Chargeable Changes

The following administrative changes will be made without charge:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.1 Application of Rates and Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(2) Installation of Service

A Local Transport nonrecurring installation charge as set forth in Section 6.9.1(A), following, will be applied at the serving wire center for each Entrance Facility installed. Additionally, an End Office nonrecurring installation charge as set forth in Section 6.9.1(B), following, will be applied at the end office on a per order basis for each group of 24 Direct Trunked Transport facility, whether voice grade or DS1. A maximum of 24 trunks can be activated on a DS1 facility.

For example, if a customer orders a DS1 Entrance Facility and requests activation of 18 of the available circuits, the customer will be charged one Local Transport High Capacity DS1 Installation nonrecurring charge at the serving wire center, and one installation nonrecurring charge. If at a later date the customer requests the activation of three more circuits, the customer will then be charged one installation nonrecurring charge.

(a) The nonrecurring charge set forth in Section 6.9.1, following will be waived through July 1, 1994, for service connection when an IC converts trunks from tandem-switched to direct-trunked or from direct-trunked to tandem-switched or when an IC orders the disconnection of over-provisioned trunks.

(M)

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(3) Customer Identification Function for Interim NXX Translation

(M)

Nonrecurring charges may apply for the installation of the Interim NXX Translation feature and for each order received to add or change NXX translation codes. This charge, if applicable, applies whether this optional feature is installed coincident with or at any time subsequent to the installation of

(M)

(M) Material formerly appearing on 6th Revised Page 83.1 now appears on this page and certain material formerly appearing on this page now appears on 7th Revised Page 83.1

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.1 Application of Rates and Charges (Cont'd)

(A) Nonrecurring Charges (Cont'd)

(3) Customer Identification Function for Interim NXX Translation (Cont'd)

Switched Access Services. This charge is applied per order, per Telephone Company. If, due to technical limitations of the Telephone Company, a customer could not combine its Interim NXX traffic with its other trunk side Switched Access Services, no charge shall apply to combine these trunk groups when it becomes technically possible.

(4) Switched Access Installation Charge Waiver

(D)
|
(D)
(N)

Pursuant to the Federal Communications Commission's (FCC) Order in CC Docket No. 96-262, Access Charge Reform, released May 16, 1997, all nonrecurring charges (NRCs) for service connection are waived when a customer converts trunks from tandem-switched to direct-trunked for Tandem Switched Transport between the Tandem Switch and the Serving Wire Center (SWC). NRCs are also waived if a customer orders the discontinuance of overprovisioned trunks between the Tandem Switch and the SWC. Waiver of these NRCs continues through December 31, 1998.

(N)

(B) Recurring Charges

(1) Premium Rates

Premium rates as set forth in Section 6.9, following, apply to all FGC and FGD access minutes and will be accumulated for billing on a monthly basis. In addition, premium rates apply to access minutes associated with the Customer Identification Function for NXX Access Service when provided via Toll Free Number Access Service trunk groups.

The specific application of these rates for a specific customer is dependent upon the Feature Group, type of Entrance Facility, type of transport (e.g., Direct Trunked Transport, Tandem Switched Transport), type of Multi-

(M)

(M) Material previously appearing on this page now appears on 1st Revised Page 83.1.1

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.1 Application of Rates and Charges (Cont'd)

(B) Recurring Charges

(1) (Cont'd)

plexing, and the availability of equal access capabilities in the end office to which the service is provided. For FGC service, the specific application of these rates is dependent on the use made of the FGC service as described in Section 6.2, preceding.

When only premium access minutes are carried over flat rated services, premium rates will apply to all of the flat rated rate elements (e.g., Entrance Facility, Direct Trunked Facility, Direct Trunked Termination, and Multiplexing).

(M)

(2) Transitional Rates

Transitional Access Rates (i.e., discounted access minute rates) apply to all FGA and FGB access minutes originating or terminating in an end office which is not equipped with equal access capabilities. In addition, transitional rates apply to FGC access minutes originating in an end office which is not equipped with equal access capabilities when the FGC service is used in conjunction with the Interim NXX Translation Service optional feature, by customers who do not furnish interstate MTS/WATS.

(M)

(3) Mixed Use Premium/Transitional Rates

When both premium and transitional access minutes are carried over the same flat rated facilities, a portion of the facilities (e.g., Entrance Facility, Direct Trunked Transport, and Multiplexing) will be billed premium rates and the remaining portion will be billed transitional rates. The portion to be billed premium rates will be determined by applying telephone company premium-to-transitional ratios that are based on premium end office minutes of use divided by total end office minutes of use. These ratios will be developed quarterly by the Telephone Company based on minutes of use from those end offices whose Switched Access (both Direct Trunked and Tandem Switched) is directly or indirectly connected with the same Flat Rated Facility.

(M) Material appearing on this page previously appeared on 8th Revised Page 83.1.

(Y) Issued under Special Permission No. 97-185 of the Federal Communications Commission.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rate Regulations (Cont'd)6.8.1 Application of Rates and Charges (Cont'd)(B) Recurring Charges (Cont'd)(3) Mixed Use Premium/Transitional Rates (Cont'd)

The ratio used to calculate the premium usage will be determined on a quarterly basis and provided to the customer with the last bill rendered for the preceding quarter or mailed separately within five working days after the first day of the new quarter. A quarter is defined for these purposes as beginning on the first day of January, April, July or October.

Where FGD Switched Access Service is provided to a customer in an end office(s) where that customer's premium access minutes have been determined in accordance with (ii) and (iii), preceding, such premium access minutes will be adjusted in the following manner. For each FGD access minute originating and/or terminating from that end office, the premium access minutes as set forth in (ii) and (iii), preceding, will be reduced on a one for one basis, but in no event shall the reduction exceed the total number of premium access minutes as set forth in (ii) and (iii), preceding, from that end office. The customer will be billed for the revised number of premium access minutes.

When originating FGD is not available in an end office, and terminating FGD service to an access tandem in a LATA is available, such terminating FGD service may be used, at the option of the customer, to terminate FGD calls to that end office. Premium FGD rates apply to all access minutes associated with such calls.

ACCESS SERVICE6. Switched Access Service (Cont'd)6.8 Rate Regulations (Cont'd)6.8.1 Application of Rates and Charges (Cont'd)(B) Recurring Charges (Cont'd)(4) Toll Free Number Data Base Access Service

(C)

A Basic Query or a Vertical Feature Query charge applies for each query that is launched to an Toll Free Number data base and identifies the customer to whom the call will be delivered. The Query charge applied will depend on the features used in making the data base query. Queries using vertical service features outlined above will be charged the Vertical Feature Query charge. All other queries will be charged the Basic Query charge. Query charges, as set forth in Section 6.9.4, following, will only be applied by those companies whose wire centers are identified as assessing query charges in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4.

(C)

When Feature Group C switched access service is used for the provision of Toll Free Number Data Base Access Service and the total minutes of use and/or count of queries can be determined for each customer at a tandem or SSP but can not be determined by individual end office, an allocation method will be utilized to determine minutes of use and/or queries by end office and customer. For each end office a ratio will be developed and applied against the total minutes of use and/or count of queries for a given customer as determined by the tandem or SSP. These ratios will be developed by dividing the unidentified originating Toll Free Number minutes of use at an end office by the total unidentified originating minutes of use in all end offices subtending the tandem or SSP. For example, assume:

(C)

(C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.1 Application of Rates and Charges (Cont'd)

(B) Recurring Charges (Cont'd)

(4) Toll Free Number Data Base Access Service (C)

Three end office (EO-1, EO-2, and EO-3) subtend a tandem

EO-1 measures 2,000 minutes of 800 use
 EO-2 measures 3,000 minutes of 800 use
 EO-3 measures 5,000 minutes of 800 use
 10,000 Total (C)

The tandem delivers Toll Free Number usage to two customers:

IC-A has 4,000 minutes of use
 IC-B has 6,000 minutes of use

- The allocation ratio for EO-1 is 20%
 2,000/10,000

- The minutes of use to be billed by EO-1 are
 800 to IC-A (20% X 4,000)
1,200 to IC-B (20% X 6,000)
 2,000 Total

6.8.2 Minimum Periods

Switched Access Service is provided for a minimum period of one month.

6.8.3 Minimum Monthly Charge

Switched Access Service is not subject to a minimum monthly charge.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rate Regulations (Cont'd)6.8.4 Measuring Access Minutes

Customer traffic to end offices will be measured by the Telephone Company. Originating and terminating calls will be measured by the Telephone Company to determine the basis for computing chargeable access minutes. For terminating calls over FGC to Toll Free Number, the measured minutes are the chargeable access minutes. For originating calls over FGC, the measured minutes are the chargeable minutes. Where measurement capability does not exist, the chargeable originating access minutes are derived from recorded minutes in the following manner. (C)

Step 1: Obtain recorded originating minutes and messages (measured as set forth in (A), following, for FGC) 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 Number, 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. (C)

Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 by measuring the non-conversation time associated with both completed and incompleting attempts. The total NCTA is (C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

Step 3 (Cont'd)

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 incompleted 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 Non-Conversation Time per Attempt Ratio equals Total NCTA.

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

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

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

$$(1) \text{ Total Attempts} = \frac{1,000 \text{ (M. Mes.)}}{.75 \text{ (CR)}} = 1,333.33$$

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

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rate Regulations (Cont'd)6.8.4 Measuring Access Minutes (Cont'd)

Usage rated FGC access minutes are accumulated over the billing period for each end office. When the calculation of access minutes results in a fraction, the fraction will be rounded up to the nearest access minute for each end office.

(A) Feature Group C Usage Measurement

For originating calls over FGC, usage measurement begins when the originating FGC entry switch receives answer supervision from the customer's point of termination, indicating the called party has answered.

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

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

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

(A) Feature Group C Usage Measurement (Cont'd)

(2) Terminating Usage

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

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

For terminating calls over FGC to Toll Free Number Service, usage measurement begins when the terminating FGC entry switch receives answer supervision from the terminating end user's end office, indicating the terminating Toll Free Number Service end user has answered.

(C)

(C)

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Mountain View, WY 82939

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

(A) Feature Group C Usage Measurement (Cont'd)

The measurement of terminating call usage over FGC to Toll Free Number Service ends when the terminating FGC entry switch receives an on-hook supervisory signal from the terminating end user's end office, indicating the terminating Toll Free Number Service end user has disconnected, or from the customer's point of termination, whichever is recognized first by the entry switch. (C)

For terminating calls over FGC to services other than Toll Free Number, 900 or directory assistance, terminating FGC usage is not directly measured at the terminating entry switch, but is imputed from originating usage, excluding usage from calls to Toll Free Number, 900 or directory assistance services. (C)

(B) Feature Group D Usage Measurement

(1) Originating Usage

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

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

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

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rate Regulations (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

(B) Feature Group D Usage Measurement (Cont'd)

(1) Originating Usage (Cont'd)

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

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

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rate Regulations (Cont'd)6.8.4 Measuring Access Minutes (Cont'd)(B) Feature Group D Usage Measurement (Cont'd)(2) Terminating Usage

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

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

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

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.9 Rates and Charges

	Tariff Section	<u>Rates</u>	<u>Reference</u>	
6.9.1	<u>Nonrecurring Charges</u>			
(A)	<u>Local Transport - Installation Per Entrance Facility</u>			
	(a) Voice Grade Four Wire	NA	6.8.1(A)	
	(b) High Capacity DS1	NA	6.8.1(A)	
(B)	<u>Local Transport - Installation Per End Office Facility</u>	\$33.89	6.8.1(A)	
(C)	<u>International Blocking</u>	\$33.89	6.8.1(A)	
6.9.2	<u>Local Transport* Premium Access</u>			
(A)	<u>Entrance Facility Per Termination</u>			
	(1) Voice Grade Four Wire	\$ 73.02	6.2(A)(1)(2)	
	(2) High Capacity DS1	\$195.45	6.2(A)(1)(2)	
(B)	<u>Residual Interconnection Charge</u> Per Access Minute	\$0.00000	6.2(A)(1)(b)	
(C)	<u>Tandem Switched Transport</u>			
	(1) Tandem Transport Per Minute	\$0.003993	6.2(A)(1)(c)	(R)
	(2) Tandem Switching Per Access Minute Per Tandem	NA	6.2(A)(1)(c)	

* The Local Transport rates include non-chargeable Interface Groups and Optional Features as set forth in Sections 6.2(A)(3) and 6.2(A)(4), preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.9 Rates and Charges (Cont'd)

6.9.2	<u>Local Transport*</u> (Cont'd) <u>Premium Access</u> (Cont'd)	<u>Rates</u>	<u>Section Reference</u>
(D)	<u>Direct Trunked Transport</u>		
	(1) Direct Trunked Facility Per Mile		
	- Voice Grade	\$0.56	6.2(A)(2)(a)
	- High Capacity DS1	\$3.56	6.2(A)(2)(a)
	(2) Direct Trunked Termination Per Termination		
	- Voice Grade	\$55.87	6.2(A)(2)(a)
	- High Capacity DS1	\$178.44	6.2(A)(2)(a)
(E)	<u>Multiplexing, Per Arrangement</u> - DS1 to Voice	\$280.05	6.2(A)(1)(d)
6.9.3	<u>End Office Premium Access</u>		
(A)	Local Switching Per Originating Access Minute - LS2 (Feature Group C & D)	\$0.042622	6.2(B)(1)
	Per Terminating Access Minute** - LS2 (Feature Group C & D)	\$0.003567	6.2(B)(1) (R)
(B)	Reserved for Future Use		
(C)	Directory Assistance Info. Surcharge (Per 100 Access Minutes) - Originating Access Minutes	\$0.238320	6.2(B)(3)
	- Terminating Access Minutes***	\$0.000000	6.2(B)(3)
6.9.4	<u>Toll Free Number Data Base Access Service</u>		
(A)	Basic Rate - per query	\$0.006330	6.3.6(A)(4)(a)
(B)	Vertical Features Rate - per query (replaces basic rate)	\$0.006467	6.3.6(A)(4)(a)

* The Local Transport rates include non-chargeable Interface Groups and Optional Features as set forth in Sections 6.2(A)(3) and 6.2(A)(4), preceding.

** The composite Terminating Local Switching rate shown above includes the Terminating Information Surcharge rate element.

*** The Terminating Information Surcharge rate element is included in the Terminating Local Switching rate.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.9 Rates and Charges (Cont'd)

	<u>Nonrecurring Rates</u>	<u>Section Reference</u>	
6.9.5			(D)
6.9.5			Reserved for Future Use
6.9.6			<u>Originating Line Screening (OLS)</u>
			- Per Exchange Access Line
	\$7.95	6.3.4	

ACCESS SERVICE

7. Special Access Service

7.1 General

Special Access Service provides a transmission path to connect two or more customer designated premises* when all designated premises can be connected with facilities provided by the Telephone Company. If only a portion of the facilities can be provided by the Telephone Company, Special Access Service provides the transmission path necessary to connect customer designated premises in the Telephone Company's serving area with the interconnection point with another exchange telephone company. Special Access Service includes all exchange access which does not utilize Telephone Company end office switching.

7.1.1 Rate Elements

There are three basic rate elements which may apply to a Special Access Service in addition to the Special Access Surcharge described in Section 7.4.4, following, and the Message Station Equipment Recovery charge described in Section 7.4.5, following.

(A) Channel Termination

The Channel Termination provides for the communication path between a customer designated premises and the serving wire center of that premises. One Channel Termination charge applies per customer designated premises, located in the serving area of the Telephone Company, at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

Channel Termination is the only Special Access rate element to have both a recurring and nonrecurring charge applied. All other rate elements for Special Access have only recurring charges. Rates for Channel Termination are set forth in Sections 7.5.1(A), 7.5.2(A), 7.5.3(A), and 7.5.4(A), following.

(N)
|
(N)

* Telephone Company Centrex CO switches are considered to be customer premises for purposes of this tariff

ACCESS SERVICE

7. Special Access Service

7.1 General (Cont'd)

7.1.1 Rate Elements (Cont'd)

(B) Channel Mileage

The Channel Mileage rate category provides for the end office equipment and 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, or between a serving wire center associated with a customer designated premises and the WATS serving office, or, if the customer utilizes the facilities of another connecting exchange carrier to access a customer designated premises, the Channel Mileage charge will provide for facilities between the end office switch and the interconnection point with the connecting exchange carrier.

Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s) and includes primarily outside plant used to provide the facility. Rates for Channel Mileage Facility are set forth in Sections 7.5.1.(B), 7.5.3(B), and 7.5.4(B), following.

(C)

(C)

(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs), including circuit equipment. Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and

(M)

(M) Material formerly appearing on 2nd Revised Page 91 now appears on this page.

ACCESS SERVICE7. Special Access Service7.1 General (Cont'd)7.1.1 Rate Elements (Cont'd)(B) Channel Mileage (Cont'd)(2) Channel Mileage Termination (Cont'd)

Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone Company bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. Rates for Channel Mileage Termination are set forth in Section 7.5.1(C), 7.5.2(C), 7.5.3(C), and 7.5.4(C) following. (C)

(C) Optional Features and Functions

Optional features and functions may be added to a Special Access Service 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 combinations of equipment installed at various locations along the path of the service. Bridging and multiplexing are Optional Features and Functions which must be performed at a Telephone Company hub office as described in Section 7.1.6, following.

Multiplexing Service is required when a customer orders High Capacity DS1 Direct Trunked Switched Access Service, or when a customer orders High Capacity DS1 Special Access for Voice Paths or a combination of voice and data paths. Rates for Multiplexing Service are described in Section 6.9.2(E), preceding.

ACCESS SERVICE7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing 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 the facilities are materially changed.

7.1.3 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 test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order 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 Metallic services, High Capacity, and Digital Data Service, acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters is available at the customer's request. All test results will be made available to the customer upon request. The rates described in Section 9.2.7, following, for Additional Labor will apply when additional tests are performed.

ACCESS SERVICE

7. Special Access Service

7.1 General (Cont'd)

7.1.4 Service Descriptions

For the purposes of ordering, there are categories of Special Access Service are Metallic (MT) Voice (VG) and High Capacity (HICAP) Service. (C)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in this section. Channel interfaces are nonchargeable features of a Special Access Service and are described in Section 11.3, following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

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, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, or, between a customer designated premises and the WATS serving office.

(A) Information pertaining to the technical specifications packages described in Section 7.2, following, indicates the transmission parameters that are available with each package. This information

ACCESS SERVICE7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.4 Service Descriptions (Cont'd)

(A) (Cont'd)

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 above 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 alpha-numeric 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.

(B) Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in Section 11.3, following, in a combination format.

(C) Only certain channel interface combinations are available with the predefined technical specification packages. These are delineated in the Technical References set forth in

ACCESS SERVICE

7. Special Access Service

7.1 General (Cont'd)

7.1.4 Service Descriptions (Cont'd)

(C) (Cont'd)

When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

(D) The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in the provision will be maintained at the performance levels specified in this tariff.

(E) 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	PUB	62502	
Voice Grade	PUB	62501 and associated Addendum	
	PUB	41004, Table 4	
High Capacity		TR-INS-000342	(N)
	PUB	62411	(N)

7.1.5 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in Section, 5. preceding. Also included in that section are other charges which

ACCESS SERVICE

7. Special Access Service

7.1 General (Cont'd)

7.1.5 Ordering Options and Conditions (Cont'd)

may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

7.1.6 Facility Hubs

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. The NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff (Z) F.C.C. NO. 4 (Wire Center Information) identifies serving wire centers, hub (Z) locations and the type of bridging or multiplexing functions available.

7.2 Channel Types and Service Descriptions

There are two basic 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 (i.e., 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. (M) | (M)

(M) Material formerly appearing on Original Page 97 now appears on this page.

ACCESS SERVICE

7. Special Access Service

7.2 Channel Types and Service Descriptions (Cont'd)

7.2.1 Voice Grade Service Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3,000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub between a customer designated premises and a WATS serving office.

(T)(M)

(A) Technical Specifications Package

ParameterC*	Package VG-												
	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
Frequency Shift	X							X	X	X	X	X	X
Impulse Noise	X						X	X	X	X	X	X	X
Intermodulation													
Distortion	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 desired parameters are selected by the customer from the list of available parameters.

(M)

(M) Material formerly appearing on this page now appears on 2nd Revised Page 96 and 2nd Revised Page 99, and material formerly appearing on 2nd Revised Page 98 now appears on this page.

ACCESS SERVICE

7. Special Access Service

7.2 Channel Types and Service Description (Cont'd)

7.2.1 Voice Grade Service Channel Description (Cont'd)

(T)(M)

(A) Technical Specifications Package (Cont'd)

The technical specification 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 PUB 41004, Table 4.

(B) 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.

(M)

Compatible channel interfaces are set forth in Section 11.3, following.

(M)

(M) Material formerly appearing on this page now appears on 1st Revised Page 97 and 2nd Revised Page 99, and material formerly appearing on 1st Revised Page 99 now appears on this page.

ACCESS SERVICE

7. Special Access Service

7.2 Channel Types and Service Descriptions (Cont'd)

7.2.2 Metallic Service Channel Description

(T)(M)

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and 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.

(A) Technical Specifications Packages

Package MT-

<u>Parameter</u>	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 PUB 62502

* All parameters are available within the ranges selected by the customer where technically feasible.

(M)

(M)

(B) Channel Interfaces

(M)

Compatible channel interfaces are set forth in Section 11.3, following.

(M) Certain material formerly appearing on this page now appears on 3rd Revised Page 98, and material formerly appearing on Original Page 97 and 2nd Revised Page 98 now appears on this page.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Channel Types and Service Description (Cont'd)

7.2.3 Reserved for Future Use

7.2.4 High Capacity Service

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps**, 128***, 256***, 384***, 512***Kbps or 1.544 Mbps isochronous serial data. The actual bit rate 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 or hubs. (N)

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

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.

** Available only as a channel of 1.544 Mbps facility to a Telephone Company Digital Data hub 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 to a Digital Data hub(s). The customer must provide system and channel assignment data

*** 128, 256, 384, and 512 Kbps service is offered only where equipment and facilities are available.

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2. Channel Types and Services Descriptions (Cont'd)

7.2.4 High Capacity Service (Cont'd)

(A) Technical Specifications Packages and Network Channel Interfaces

	<u>Package</u>					
	<u>SD Code HCO</u>	<u>HC1</u>	<u>HC1C</u>	<u>HC2</u>	<u>HC3</u>	<u>HC4</u>
<u>Parameters</u>	<u>NC Code HS</u>	<u>HC</u>	<u>HD</u>	<u>HE</u>	<u>HF</u>	<u>HG</u>
Error-Free Seconds		X				
<u>Optional Features</u>						
<u>and Functions</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 DSO		X				
DSO to Subrate* X						
Transfer Arrangement			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.

Compatible channel interfaces are set forth in 11.3.5(D), following:

* Available only on a channel of 1.544 Mbps facility to a Telephone Company hub.

ACCESS SERVICE

(N)

7. Special Access Service (Cont'd)

7.2. Channel Types and Services Descriptions (Cont'd)

7.2.4 High Capacity Service (Cont'd)

(A) Technical Specifications Packages and Network Channel Interfaces
(Cont'd)

The following network channel interfaces (NCIs) define the bit rates that are available for a High Capacity channel:

<u>NCI</u>	<u>Bit Rate</u>
DS-15*	1.544 Mbps (DS1)

(B) 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 line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises.

(2) 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 designated 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.

* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2. Channel Types and Services Descriptions (Cont'd)

7.2.4 High Capacity Service (Cont'd)

(N)

(B) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing

(a) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(b) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

The table set forth in 7.2.4(A), preceding, shows the technical specifications packages with which the optional features and functions are available.

(N)

7.3 Service Configurations

(M)

There are two types of service configurations over which Special Access Services are provided: two-point and multipoint service.

7.3.1 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.

(M)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Service Configurations (Cont'd)

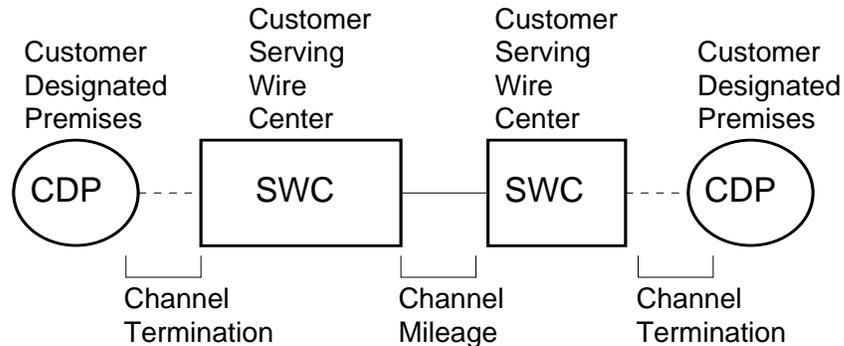
7.3.1 Two-Point Service (Cont'd)

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge, as set forth in Section 7.4.4, following, and a Message Station Equipment Recovery Charge, as set forth in Section 7.4.5, following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two customer designated premises (CDP) located 15 miles apart.



Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (1 section, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations)

ACCESS SERVICE7. Special Access Service (Cont'd)7.3 Service Configurations (Cont'd)7.3.2 Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company hub. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.4, preceding, 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). The NATIONAL EXCHANGE CARRIER ASSOCIATION Tariff F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable)
- Additional Optional Features and Functions (when applicable).

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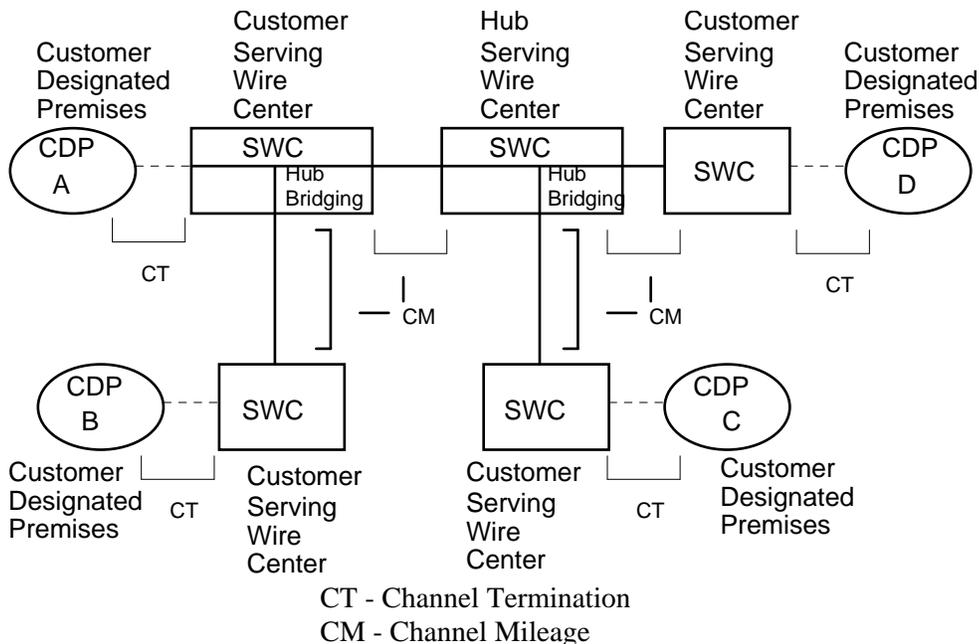
7. Special Access Service (Cont'd)

7.3 Service Configurations (Cont'd)

7.3.2 Multipoint Service (Cont'd)

In addition, the Special Access Surcharge, as set forth in Section 7.4.4, following, and a Message Station Equipment Recovery Charge, as set forth in Section 7.4.5, following, may be applicable.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.



Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (4 sections, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations per section)
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

ACCESS SERVICE7. Special Access Service (Cont'd)7.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.4.1 Application of Rates and Charges(A) Nonrecurring Charges

Nonrecurring Charges apply to each installation of service as a one time charge. Changes to existing services other than administrative changes described in Section 6.8.1, preceding, will be treated as a discontinuance of the existing service and an installation of a new service.

If an additional leg is added to an existing multipoint service, nonrecurring charges will only apply to the additional termination.

Nonrecurring charges apply for each Channel Termination installed.

(B) Recurring Charges

Recurring charges apply to the ongoing provision of Special Access Service to the customer.

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

7.4.2 Minimum Periods

Special Access Service is provided for a minimum period of one month.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.3 Reserved for Future Use

ACCESS SERVICE7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.4 Surcharge for Special Access Service(A) General

The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device where, through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include but are not limited to wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex Co-type switch. The Surcharge rate is set forth in Section 7.5.5, following.

(T)

(B) Exemption of Special Access Service

Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification as described in Section 7.4.4(C), following, for the following Special Access Service terminations:

- (1) an open-end termination in a Telephone Company switch to an FX line, including CCSA and CCSA-equivalent ONALs; or
- (2) an analog channel termination that is used for radio or television program transmission; or
- (3) a termination used for TELEX service; or
- (4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such, as terminations which are restricted through hardware or software; or

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.4 Surcharge for Special Access Service (Cont'd)

(B) Exemption of Special Access Service (Cont'd)

- (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line Charges; or
- (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.
- (7) a termination of WATS Access Service that the customer certifies to the Telephone Company as in place on or before March 13, 1986, and the customer resells the WATS service provided over the WATS Access Service.

Pursuant to CC Docket No. 86-1 Report and Order, adopted by the Federal Communications Commission on March 13, 1986, and released March 21, 1986, this exemption shall apply for a six-month period commencing June 1, 1986 and ending December 31, 1986.

(C) Exemption Certification

- (1) Special Access Services which are terminated as set forth in Section 7.4.4(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 (1) at the time the Special Access Service is ordered or installed; (2) at such time as the service is reterminated to a devise which does not interconnect to the service to local exchange facilities, or (3) at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.4 Surcharge for Special Access Service (Cont'd)

(C) Exemption Certification (Cont'd)

- (2) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in Section 7.4.4(B), 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. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

(D) Application of Surcharge

- (1) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each intrastate Special Access Service installed unless exemption certification is provided as set forth in Section 7.4.4, preceding. In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.
- (2) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (3), following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.4 Surcharge for Special Access Service (Cont'd)

(D) Application of Surcharge (Cont'd)

- (3) The Telephone Company will cease billing the Special Access Surcharge when certification, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

7.4.5 Message Station Equipment Recovery Charge

- (A) The Message Station Equipment Recovery Charge is a charge to recover that portion of message station equipment that is assigned to Special Access Service.

Pursuant to CC Docket 83-1145 Memorandum Opinion and Order adopted by the Federal Communications Commission on November 8, 1984, and released on November 9, 1984, this charge is assessed only to those customers to which the Special Access Surcharge, as set forth in Section 7.4.4, preceding, applies. The rate for Message Station Equipment Recovery is set forth in Section 7.5.6, following.

(T)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.6 Deferral of Collection of Special Access Charges on Existing WATS and Toll Free Number Service Lines (C)
(C)

- (A) On June 1, 1986, the Telephone Company will begin to bill the Special Access surcharge, Inside Wire Charge, and Message Station Recovery charge for Special Access facilities presently in-service. Payment of any of these charges billed on WATS and Toll Free Number service facilities in service as of June 1, 1986, may be deferred, without penalty, for a period not to exceed ninety (90) days from June 1, 1986. (C)

If appropriate exemption certification is not received by the Telephone Company by the end of the ninety (90) days deferral period, the billed Special Access charges, which were deferred, will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1, preceding. Customers who provide exemption certification within the ninety (90) day deferral period commencing June 1, 1986, will be given credit for the charges billed back to the June 1, 1986 date.

(Y) Issued under Special Permission No. 96-176 of the Federal Communications Commission.

Issued: February 16, 1996

President
850 Highway 410
Mountain View, WY 82939

Effective: March 1, 1996

ACCESS SERVICE7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Mixed Use Analog and Digital High Capacity Services

Mixed use refers to a rate application applicable only when the customer orders High Capacity Special Access facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a Telephone Company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as mixed use.

Except as noted above, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the mixed use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination.

Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed use facility.

ACCESS SERVICE7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Mixed Use Analog and Digital High Capacity Services (Cont'd)

When Special Access Service is provided utilizing a channel of the mixed use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (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 for the appropriate channel type.

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination, Channel Mileage, and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.).

Switched Access Service rates and charges, as set forth in Section 6.9.2, preceding, will apply for each channel that is used to provide a Switched Access Service. Additionally, the Switched Access Service Entrance Facility, Direct Trunked Transport, and Multiplexing charges, if applicable, will be reduced by multiplying their respective rates by the ratio of derived Switched Access Service channels to the total number of channels that can be derived.

The customer must place an order for each individual Switched or Special Access Service utilizing the Mixed Use Facilities and specify the channel assignment for each such service.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges

	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Tariff Section Reference</u>
7.5.1 <u>Voice Grade Channel</u>			
(A) <u>Channel Termination</u> per termination*			
Two-Wire	\$40.53 (R)	\$75.00	7.1.1(A)
Four-Wire	\$64.84 (R)	\$75.00	7.1.1(A)
(B) <u>Channel Mileage</u> <u>Facility</u> per mile	\$ 0.55 (R)	None	7.1.1(B)(1)
(C) <u>Channel Mileage</u> <u>Termination</u> per termination	\$55.53 (R)	None	7.1.1(B)(2)
7.5.2 <u>Metallic Channel</u>			
(A) <u>Channel Termination</u> per termination*			
Two-Wire	\$39.74	\$75.00	7.1.1(A)
(B) <u>Channel Mileage</u> <u>Facility</u> per mile	\$0.54	None	7.1.1(B)(1)
(C) <u>Channel Mileage</u> <u>Termination</u> per termination	\$54.45	None	7.1.1(B)(2)

* The Channel Termination Rate includes nonchargeable Channel Interfaces as set forth in Section 7., preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Tariff Section Reference</u>
7.5.3 <u>Digital Data</u>			
(A) <u>Channel Termination</u> per termination* 56-64 Kbps***	\$74.77 (R)	\$150.00	7.1.1(A)
(B) <u>Channel Mileage</u> <u>Facility</u> per mile 56-64 Kbps	\$0.72 (R)	NA	7.1.1(B)(1)
(C) <u>Channel Mileage</u> <u>Termination</u> per termination 56-64 Kbps	\$74.75 (R)	NA	7.1.1(B)(2)
7.5.4 <u>High Capacity</u>			
(A) <u>Channel Termination</u> per termination*			
128 Kbps	\$128.07	\$46.00 Per Hr**	7.1.1(A)
256 Kbps	\$135.89	\$46.00 Per Hr**	7.1.1(A)
384 Kbps	\$143.71	\$46.00 Per Hr**	7.1.1(A)
512 Kbps	\$151.55	\$46.00 Per Hr**	7.1.1(A)
1.544 Mbps	\$173.54 (R)	\$46.00 Per Hr**	7.1.1(A)

* The Channel Termination Rate includes nonchargeable Channel Interfaces as set forth in Section 7., preceding.

** Per hour rate plus additional equipment necessary to install circuit.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Tariff Section Reference</u>
7.5.4 <u>High Capacity</u> (Cont'd)			
(B) <u>Channel Mileage</u>			
<u>Facility</u>			
per mile			
128 Kbps	\$1.59	NA	7.1.1(B)(1)
256 Kbps	\$1.88	NA	7.1.1(B)(1)
384 Kbps	\$2.13	NA	7.1.1(B)(1)
512 Kbps	\$2.42	NA	7.1.1(B)(1)
1.544 Mbps	\$3.54 (R)	NA	7.1.1(B)(1)
(C) <u>Channel Mileage</u>			
<u>Termination</u>			
per termination			
128 Kbps	\$151.63	NA	7.1.1(B)(2)
256 Kbps	\$227.30	NA	7.1.1(B)(2)
384 Kbps	\$303.08	NA	7.1.1(B)(2)
512 Kbps	\$359.40	NA	7.1.1(B)(2)
1.544 Mbps	\$177.34 (R)	NA	7.1.1(B)(2)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.5 Special Access Surcharge

-	Per Voice Grade	\$25.00	None
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7.5.6 Message Station Equipment
Recovery Charge

\$0.00	None
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ACCESS SERVICE8. Special Federal Government Access Services8.1 General

This section covers Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security. In addition, this section covers the Telecommunications Service Priority (TSP) System service and procedures as set forth in Section 8.8.1(D), following, since it is administered by the Federal Government.

Services for command and control communications and for national security and emergency preparedness may sometimes be provided under non-emergency conditions for a short duration to determine network assurance. However, the Telephone Company reserves the right to limit or to decline participation in these non-emergency condition requests for service.

8.2 Emergency Conditions

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

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

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.2 Emergency Conditions (Cont'd)

(E) Political unrest in foreign countries which affect the national interest.

(F) Presidential service.

8.3 Intervals to Provide Service

The services provided under the provisions of this section of the tariff are provided on an individual case basis.

8.4 Safeguarding of Service8.4.1. Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service as set forth in Sections 8.8.1.(D) and 8.8.2.(C), following.

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

8.5 Federal Government Regulations

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

8.6 Mileage Application

Mileage, when used for rate application between two customer designated premises, shall be determined by the V and H Coordinates Method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. NO. 4 (Wire Center Information) for V and H coordinates.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.7 Move Charges

When service 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.

8.8 Service Offerings to the Federal Government

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

8.8.1 Type and Description(A) Voice Grade Special Access Services(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point 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

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.1 Type and Description (Cont'd)(A) Voice Grade Special Access Services (Cont'd)(1) Voice Grade Secure Communications Type I (Cont'd)

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 communications between an IC premises on an End User's premises and an End User's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.1 Type and Description (Cont'd)(A) Voice Grade Special Access Services (Cont'd)(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between a customer premises switch and a customer 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 communications 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.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.1 Type and Description (Cont'd)(B) Wideband Data Special Access Services

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

(1) Wideband Secure Communications Type I

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

(2) Wideband Secure Communications Type II

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

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum 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.

(C) Special Routing Access Service

Special Routing Access Service is a specialized service for use by carriers authorized to provide their service for an agency or branch of the Federal Government. This service provides the customer's end users the ability to originate and terminate calls to or from the customer's premises.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.1 Type and Description (Cont'd)(C) Special Routing Access Services (Cont'd)

This service is an optional service which operates in conjunction with Trunk Side Premium Access Service furnished under other provisions of this tariff.

The Telephone Company will manually record Special Routing Access Service Active Mode Trunk Usage, and will bill the customer in accordance with these records. The hours for each trunk ordered will be summed and then rounded to the nearest half hour, except that when the initial activation total is less than one hour, one hour will be used to determine the charge.

(D) Telecommunications Service Priority (TSP) System

- (1) Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (F.C.C.'s) Rules and Regulations.

In addition, TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCSH 3-1-2) dated July 9, 1990, and "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual" (NCSM 3-1-1).

The TSP System is a service, developed to meet the requirements of the Federal Government, as

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.1 Type and Description (Cont'd)(D) Telecommunications Service Priority (TSP) System (Cont'd)

(1) (Cont'd)

specified in the Service Vendor's Handbook and Service User's Manual which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

(2) The TSP System's applicability is limited to Access Services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

(3) Some of the elements required for the TSP System are included in other sections of this tariff as general service offerings. They have been referenced in this section to reflect the complete TSP System with appropriate references to those other sections of the tariff for regulations, rates and charges.

(4) The customer for TSP System Service also must be the same customer for the Access Service with which it is associated.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.1 Type and Description (Cont'd)(D) Telecommunications Service Priority (TSP) System (Cont'd)

- (5) Under certain conditions it may be necessary to interrupt one or more customer services with a lower or no restoration priority in order to install or restore NSEP telecommunications services(s) of a higher priority. If such interruption is necessary, and if circumstances permit, the Telephone Company will make reasonable effort to notify the interrupted service customer of the action to be taken. Credit allowance for such service interruption shall be made in accordance with the provisions set forth in Section 2.4.3, preceding.
- (6) The customer, in obtaining TSP System service, acknowledges and consents to the provision of certain customer service record information by the Telephone Company to the Federal Government, as specified in the TSP Service Vendor Handbook, in order for the Government to maintain and administer its overall TSP System. This customer service record information will include only TSP Authorization Code and Telephone Company Circuit/Service ID.
- (7) When Priority Restoration Maintenance and Administration, as defined in the TSP Service Vendor Handbook, is discontinued (Revocation of Assigned Restoration Priority), and the associated Access Service is continued in service, the charge specified in Section 8.8.2.(C)(2)(c), following, will not apply for such a discontinuance.
- (8) Credit allowance for service interruption for Priority Restoration Maintenance and Administration shall be the same as for the Access Service with which it is associated as set forth in Section 2.4.3, preceding.

ACCESS SERVICE

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

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

8.8.1 Type and Description (Cont'd)

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

- (9) Certain activities performed by the Telephone Company in association with the TSP System are as follows:
- (a) Priority Installation Invocation includes System Development, Verification, Confirmation and Preemption.
 - (b) Priority Restoration Level Implementation includes System Development, Verification and Confirmation.
 - (c) Priority Restoration Level Change includes Verification and Confirmation.
 - (d) Priority Restoration Maintenance and Administration includes Reconciliation and Preemption.
- (10) The customer, in obtaining a Priority Restoration, recognizes that quoting charges and obtaining permission to proceed with the installation or restoration of certain access Services will cause unnecessary delays. In subscribing to Priority Restoration service the customer recognizes this condition and grants the Telephone Company the right to quote charges after the restoration has been completed.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.2 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. In addition to the rates and charges shown below, appropriate channel termination and mileage rates and charges for narrowband or voicegrade services, where required, apply as set forth in Section 7., preceding.

<u>Voice Grade Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
Type I, each T-3 Conditioning,	ICB rates and charges apply	
Additional Conditioning, per service termination	ICB rates and charges apply	
Type II, each G-1 Conditioning, per service termination	ICB rates and charges apply	
Type III, each G-2 Conditioning, per service termination	ICB rates and charges apply	
Type IV, each G-3 Conditioning, per service termination	ICB rates and charges apply	

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.2 Rates and Charges (Cont'd)(B) Special Routing Access Service

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff to operate in conjunction with this service.

	<u>Recurring Charges</u>	<u>Nonrecurring Charges</u>
(1) Special Routing Access Service Area Plan-Setup and Removal, Per End Office or Tandem Office Switching System. (Note 1) (Note 2)	-	ICB
(2) Special Routing Access Service Trunk Group Setup and Removal, Per End Office Switching System, Per Occurrence (Note 1) (Note 2)	-	ICB

(Note 1) The service setups will only be activated in offices that are specifically negotiated by the customer with the Telephone Company and are mutually agreeable between both parties.

(Note 2) End Offices will be updated for activation and/or deactivation annually.

ACCESS SERVICE8. Special Federal Government Access Services (Cont'd)8.8 Service Offerings to the Federal Government (Cont'd)8.8.2 Rates and Charges (Cont'd)(B) Special Routing Access (Cont'd)

	<u>Recurring Charges</u>	<u>Nonrecurring Charges</u>
(3) Activation or Deactivation, of Special Routing Access Service, Per End Office or Tandem Office Switching System, Per Occurrence	-	ICB
(4) Special Routing Access Service Trunk Usage, When Activated, Per Trunk, Per Initial Activation Hour	ICB*	-
(5) Special Routing Access Service Trunk Usage, When Activated, Per Trunk, Per Subsequent One-half Hour	ICB*	-
(6) Special Routing Access Service Maintenance and Administration, Per End Office or Tandem Office Switching System, Per Month	ICB	-

* This rate is in addition to Trunk Side Premium Access Service rates, as set forth in Section 6, preceding, which apply on an ongoing basis whether SRAS is activated or not.

ACCESS SERVICE

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

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

8.8.2 Rates and Charges (Cont'd)

(C) Telecommunications Service Priority (TSP) System

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished under the provisions of this tariff which operate in conjunction with the TSP System.

	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) Priority Installation (PI) of an Access Service - Invocation Includes System Development, Verification, Confirmation and Preemption*		
Prime Service Vendor	-	ICB
Subcontractor	-	ICB
(a) Expedited (Emergency or Essential)	Regulations, rates and charges are the same as those set forth for the Switched or Special Access Service for which PI is required.	
(b) Utilizing Specially Constructed Facilities	Regulations, rates and charges are the same as those set forth in Section 10, following, for Special Construction of the facilities for Switched Access Service for which PI is required.	

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

ACCESS SERVICE

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

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

8.8.2 Rates and Charges (Cont'd)

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

		<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(2)	Priority Restoration (PR) Level Implementation on an Access Service		
(a)	When PR level is implemented - includes System Development Verification and Confirmation*		
	Prime Service Vendor	-	ICB
	Subcontractor	-	ICB
(b)	When the PR level is changed on an associated working Access Service - includes Verification and Confirmation		
	Prime Service Vendor	-	ICB
	Subcontractor	-	ICB
(c)	Administrative and maintenance of PR Service - includes Reconciliation and Preemption		
	Prime Service Vendor	ICB	-
	Subcontractor	ICB	-

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

ACCESS SERVICE

8. Reserved for Future Use

ACCESS SERVICE

9. Additional Engineering, Additional Labor and Miscellaneous Services

In this section, normally scheduled working hours are an employee's scheduled work period on any given business day which totals eight (8) hours.

9.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer 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 Sections 6.6.7 and 7.1.2, 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 Section 7.2, preceding.

The Telephone Company will notify the customer that additional engineering charges will apply before any additional engineering is undertaken.

9.1.1 Charges for Additional Engineering

The charges for Additional Engineering are as follows:

<u>Additional Engineering Periods</u>	<u>1/2 Hour or Fraction Thereof</u>
Basic Time, normally scheduled working hours, per engineer	\$15.90

ACCESS SERVICE

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

9.1 Additional Engineering (Cont'd)

9.1.1 Charges for Additional Engineering (Cont'd)

<u>Additional Engineering Periods</u>	<u>1/2 Hour or Fraction Thereof</u>
Overtime, outside of normally scheduled working hours, per engineer	\$23.85

9.2 Additional Labor

Additional labor is that labor requested by the customer on a given service and agreed to by the Telephone Company. The Telephone Company will notify the customer that additional labor charges will apply before any additional labor is undertaken. Additional labor charges apply to the services described in Sections 9.2.1 through 9.2.6, following.

9.2.1 Overtime Installation

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

9.2.2 Overtime Repair

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

9.2.3 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.

ACCESS SERVICE

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

9.2 Additional Labor (Cont'd)

9.2.4 Testing and Maintenance with Other Telephone Companies

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

9.2.5 Testing Services

Testing services other than those described in other parts of this tariff will be provided at the hourly rates described if requested by the customer. Testing will be provided subject to the availability of equipment and qualified personnel.

9.2.6 Other Labor

Other labor is that additional labor incurred to accommodate a specific customer request that involves labor which is not covered by any other section of this tariff. It also covers additional labor necessary to meet customer requests as described in Section 5., preceding.

9.2.7 Charges for Additional Labor

The charges for Additional Labor are as follows:

<u>Additional Labor</u> <u>Periods</u>	<u>1/2 Hour or</u> <u>Fraction</u> <u>Thereof</u>
Basic time, normally scheduled working hours, per technician	\$15.90

ACCESS SERVICE

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

9.2 Additional Labor (Cont'd)

9.2.7 Charges for Additional Labor (Cont'd)

Additional Labor <u>Periods</u>	1/2 Hour or Fraction <u>Thereof</u>
Overtime, outside of normally scheduled working hours, per technician	\$23.85*

*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.

9.3 Miscellaneous Services

9.3.1 Maintenance of Service

(A) When a customer reports a trouble to the Telephone Company for clearance and the trouble is not 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.

(B) The charges for Maintenance of Service are as follows:

Maintenance of Service <u>Periods</u>	1/2 Hour or Fraction <u>Thereof</u>
Basic time, normally scheduled working hours, per technician	\$15.90

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.1 Maintenance of Service (Cont'd)

Maintenance of Service <u>Periods</u> Overtime, outside of normally scheduled working hours, per technician	1/2 Hour or Fraction <u>Thereof</u> \$23.85*
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*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.

9.3.2 Programming Services

(A) Programming charges apply when a request by a customer for information concerning the access services provided to the customer result in the creation of new computer software or the modification of existing software in order to provide the requested information.

The Telephone Company will notify the customer that additional programming charges will apply before any additional programming is undertaken.

(B) The charges for Programming Service are as follows:

<u>Programming Service</u> <u>Periods</u> Basic Time, normally scheduled working hours, per programmer	1/2 hour or <u>Fraction Thereof</u> \$30.00
Overtime, outside of normally scheduled working hours, per programmer	\$42.50

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription

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

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

Only one IC may be selected for all of its lines, or lines terminating in the same hunt group.

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.3 Presubscription (Cont'd)

(C) (Cont'd)

End users may designate that they do not want to presubscribe to any IC. The end user must arrange this designation by directly notifying the Telephone Company's business office. This choice will require the end user to dial an access code (10XXX) for all interstate calls.

After the end user's initial selection of a predesignated IC or the designation that they do not want to presubscribe to any IC, for any change in selection after conversion to equal access in the serving end office, a nonrecurring charge, as set forth in Section 9.3.4, following, applies.

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

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

Following the six-month period after conversion to equal access for any change in selection, a nonrecurring charge as set forth in Section 9.3.4, following, applies.

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.3 Presubscription Cont'd)

- (E) When an end user indicates more than one IC selection on the return notification or returns an illegible return notification, the Telephone Company will contact the end user for clarification. If the end user indicates an IC selection on the return notification that does not match with information provided by an IC and both notifications indicate the same authorization date, the end user's notification takes precedence and the Telephone Company will process the end user's selection. In the event that two or more ICs provide to the Telephone Company notifications with the same authorization date and neither notification has been processed, the Telephone Company will contact the end user for clarification. A list of these customers in conflict must be sent to the affected IC by the Telephone Company.

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

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

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

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.3 Presubscription Cont'd)

(F) (Cont'd)

Only one IC may be selected for each individual line, or lines terminating in the same hunt group. Subsequent to the installation of Telephone Exchange Service and after the end user's initial selection of a predesignated IC, for any change in selection, a nonrecurring charge, as set forth in Section 9.3.4, following, applies.

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

For any change in selection after 6 months from the installation of Telephone Exchange Service, a nonrecurring charge, as set forth in Section 9.3.4, following, applies.

(H) If an IC elects to discontinue its Feature Group D Service offering prior to or within 2 years of the conversion, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are cancelling their service and that they should contact the Telephone Company to select a new primary IC.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription Cont'd)

(H) (Cont'd)

The IC will also inform the end user that it will pay the presubscription change charge. The canceling IC will then be billed by the Telephone Company the appropriate charge for each end user for a period of two years from the discontinuance of Feature Group D service.

(I) If an IC elects to change or discontinue use of a Carrier Identification Code (CIC) for any reasons other than those set forth in (H) above, the IC will identify to the Telephone Company any affected end users and advise the Telephone Company of the new CIC to be assigned to these end users. If the CIC change involves a change of carrier for any end users, the IC will notify the affected end users of the change. The Telephone Company will change the predesignated carrier code of each end user identified by the IC to the new CIC and bill the IC the nonrecurring charge set forth in 12.#.4(E) following for each end user line or trunk that is changed. (C)

(J) Unauthorized PIC Change

For purposes of this section, a subscriber is defined as:

- the party identified in the account records of the Telephone Company as responsible for payment of the telephone bill, or
- any adult person authorized by such party to change telecommunications services or to charge services to the account, or
- any person contractually or otherwise lawfully authorized to represent such party. (C)

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.3 Presubscription (Cont'd)

(J) Unauthorized PIC Change (Cont'd)

(C)

If an IC requests a PIC change on behalf of a subscriber and the subscriber subsequently denies requesting the change; the Telephone Company will:

- Notify both carriers involved in the unauthorized change allegation made by the subscriber. This notification must include the identity of both carriers.
- Direct the subscriber to the appropriate state regulatory agency or the Federal Communications Commission to file a complaint.
- Inform the subscriber that if he or she has not change.

(C)

ACCESS SERVICE

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

(M)

9.3 Miscellaneous Services (Cont'd)

9.3.4 Presubscription Charges

	<u>Per Line Per Request</u>	<u>Tariff Section Reference</u>	(C)
(A) <u>Presubscription – InterLATA PIC Change</u>			
(1) Manual PIC Change Charges, per line or trunk*			
- When only the InterLATA PIC is changed	\$5.50 (I)	9.3.3	
- When both the InterLATA and IntraLATA PICs are changed simultaneously	\$2.75 (R)	9.3.3	
(2) Electronic PIC Change Charge, per line or trunk*	N/A		(C)

*This charge is generally billed to the end user who is the subscriber to the Telephone Exchange Service. In those instances where the IC both requests the presubscription change, and requests the associated charge be billed to it, the Telephone Company will bill the IC. In the event the subscriber is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. In the event the subscriber denies requesting a presubscription change, the Telephone Company will credit the subscriber's account for the presubscription change charge associated with the alleged unauthorized change, if such charge was billed to the subscriber.

(B) Reserved For Future Use

(M) (D)

(M) Information that appears on this page formerly appeared on page 135.5.1.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.5 Blocking Services

Central office blocking service is offered only where technically feasible.

(A) International Blocking Service

The Telephone Company will provide international blocking service to end users.

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

A nonrecurring charge as set forth in Section 6.9.1, preceding, will apply to orders adding or removing International Blocking Service that are placed subsequent to the initial installation of the associated exchange line(s). This charge does not apply when an exchange line is disconnected.

(B) 900 Blocking Service

900 Service Access Restriction prevents access to the 900 network. When customers dial a 0+ or 1+ 900 pay-per-call number from a restricted telephone number, the 900 call is blocked.

Charges associated with 900 Service Access Restriction will be waived, on a one-time basis, for customers during the period from November 1, 1993 through December 31, 1993; and for customers who request a new line for a period of 60 days after the new line is installed.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.5 Blocking Services (Cont'd)

(B) 900 Blocking Service (Cont'd)

Requests by customers to remove 900 Service Access Restriction must be submitted in writing to the Telephone Company.

	<u>Per Line Per Request</u>
1. International Blocking Service	\$ 33.89
2. 900 Blocking Service	
a. Blocking	\$ 25.00
b. Unblocking	\$ 25.00

9.3.6 Bill Name and Address Information

Interexchange carriers, enhanced service providers, and independent service providers may request Billing Name and Address (BNA) information of the Telephone Company or the Telephone Company's contracted billing agent for a specifically stated Billed Telephone Number (BTN). This information is to be used only for billing purposes, order entry, customer service, fraud prevention, and identification of end users who have moved from one location to another. Under no circumstances should this information be used for marketing purposes.

The Telephone Company will provide this information on a per-request basis, using rates specified below. Information will be provided for all BTNs except those that are unpublished or unlisted and are assigned to subscribers who have provided the Telephone Company with written instructions forbidding the release of BNA for their assigned BTNs. For all other subscribers, BNA will be released for third number billed, collect calls, 10XXX calls, and calling card calls.

Requests for BNA must be submitted in writing. BTNs must be listed in ascending numeric order. The request must be accompanied by: 1) carrier identification code, 2) specific BTNs for which BNA is requested, and 3) contact name and number for verification.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.6 Bill Name and Address Information (Cont'd)

BNA will be provided in written form within a two week interval from receipt of the request.

9.3.7 Charges for Bill Name and Address Information

	<u>Per BTN</u>
Per Request Incidence	\$0.80

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.8 Operator Transfer Service(A) General

Operator Transfer Service enables a customer who provides operator services to receive calls passed through to it by the Telephone Company, for the purpose of operator assisted call completion or, for customers who do not provide operator services, Operator Transfer Service enables end user calls to be passed through to either a customer designated Operator Services Provider or a Telephone Company provided recording. Operator Transfer Service is only available in end offices equipped with FGC or FGD trunks. Operator Transfer Service is an interLATA service.

(B) Service Description

Operator Transfer Service provides end users with access to the operators of the customer for operator assisted call completion.

The Telephone Company will, when requested by an end user, connect that end user to a specified customer for operator call completion.

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.8 Operator Transfer Service (Cont'd)(B) Service Description (Cont'd)

If the customer does not provide operator services for end users, at the option of the customer, the Telephone Company will provide end users with access to a customer designated Operator Services Provider or to a Telephone Company provided announcement which will direct the end user to contact their Presubscribed Interexchange Carrier for dialing instructions.

(C) Technical Specifications

Separate dedicated FGD originating trunk(s) may be required to carry this traffic. The requirements for the trunk(s) and installation provisions are set forth in Section 6., preceding.

The transmission specifications for this service are set forth in Section 11, following.

A design layout report of the makeup of the facilities and services provided under this section of the tariff will be provided to the customer by the Telephone Company upon specific request at no charge. The report will be updated whenever the facilities provided for the customer are materially changed.

The interface groups and NCI codes available for the provision of this service are set forth in Section 11, Interface Groups 2 through 10, following.

Trunk side switching is provided only from Telephone Company offices equipped to provide 0 minus Transfer. These locations will provide trunk answer and disconnect supervisory signaling.

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.8 Operator Transfer Service (Cont'd)(D) Telephone Company Obligations

The Telephone Company will provide 0 minus Transfer from its Operator Service Position System (OSPS) location(s) as specified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., Tariff F.C.C. No. 4.

The Telephone Company operator will deliver end user requests for interLATA service to the customer location in the LATA of the customer's end user subject to the rates and charges set forth following.

Operator Transfer traffic will be routed from the OSPS location to the customer location via the customer's FGD trunk(s) equipped with modified Operator Services Signaling. The Telephone Company will provision FGD facilities as set forth in Section 6 preceding and will specify the OSPS location(s) which provide the Operator Transfer.

All rates and charges normally applicable to FGD service apply when such trunks are used to transport an end user's request for Operator Transfer Service from the end user location to the customer location. In addition, charges as specified following apply to each end user request for interLATA operator service transferred to the customer.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.8 Operator Transfer Service (Cont'd)

(E) Customer Obligations

- (1) When ordering Operator Transfer Service, the customer shall determine and specify the number of new or additional FGD trunk(s) equipped with operator services signaling desired to carry customer operator services end user requests for interLATA service from the OSPS location to the customer location as specified preceding.
- (2) The customer shall order Operator Transfer Service as set forth in Section 5, preceding.
- (3) The customer must order capacity sufficient to handle end user operator services requests for interLATA service originating from all Telephone Company end offices of the OSPS serving area where Operator Transfer is requested.
- (4) The customer shall indemnify and save the Telephone Company harmless against all claims that may arise from either party to the interrupted call or any other person.

(F) Rates and Charges

In addition to the rates and charges set forth in Sections 3. and 6., preceding, for Feature Group D Access Service per minute of use, the following rates and charges apply.

	<u>Rate</u>
- Operator Transfer, per call	\$0.45
- Operator Transfer, Installation Charge per path provided for the customer's use to the OSPS location.	Charges are the same as those for Switched Access Service trunks, as set forth in Section 6.

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.9 Busy Line Interrupt (BLI) and Busy Line Verification (BLV) Service(A) Description(1) Busy Line Interrupt (BLI)

BLI enables a Telephone Company operator to interrupt a telephone conversation in progress at the customer's request after Busy Line Verification occurs. The operator will interrupt the conversation and inform the conversing party that another party is attempting to complete a call to that line and will request the conversing party to release the line. The Telephone Company operator interrupts only the ongoing call and does not complete the telephone call. The Telephone Company operator will make only one BLI attempt per telephone call. The charge for a Busy Line Verification and Busy Line Interrupt will apply whether or not the called party releases the line.

(2) Busy Line Verification (BLV)

BLV enables an interLATA customer to obtain assistance from a Telephone Company operator to determine if a called line is in use. This service will provide Interexchange Carriers and Operator Service Providers who require interLATA call completion assistance on calls in the Telephone Company's operating territory to access an operator in order to accomplish BLV. The Telephone Company's operator will make only one BLV attempt per telephone call. The charge applies only if conversation is detected.

ACCESS SERVICE9. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)9.3 Miscellaneous Services (Cont'd)9.3.9 Busy Line Interrupt (BLI) and Busy Line Verification (BLV) Service (Cont'd)(B) Technical Specifications

FGC and FGD Terminating trunks are required to carry this traffic. Access to Telephone Company operators is provided through an inward code. The requirements for the trunk(s) and installation provisions are set forth in Section 6, preceding.

Special facilities routing is not available.

The interface groups and NCI codes available for the provision of these services are set forth in Section 11, Interface Groups 2 through 10, following.

A design layout report of the makeup of the facilities and services provided under this section of the tariff will be provided to the customer by the Telephone Company upon specific request at no charge. The report will be updated whenever the facilities provided for the customer are materially changed.

The transmission specifications for these services are set forth in Section 6, preceding.

(C) Telephone Company Obligations

The Telephone Company operator will, when furnished a telephone number in its serving area, verify the status of the line and report that status to the customer. Upon further request, the operator will interrupt a conversation to inform the called party that the customer's end user wishes to complete a call to the line and requests the called party to release the line.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.9 Busy Line Interrupt (BLI) and Busy Line Verification (BLV) Service (Cont'd)

(C) Telephone Company Obligations (Cont'd)

The Telephone Company operator will request the customer's operator to contact the serving Local Exchange Carrier when the end user line number in question is determined to be served by a different Local Exchange Carrier.

The Telephone Company will specify the codes necessary to access Telephone Company operators using FGC and FGD Terminating trunks. When it becomes necessary to change those codes, the Telephone Company will inform the customer six months prior to the change. For such changes, the regulations set forth in Section 2, preceding, apply.

The Telephone Company will distribute the calls received over these trunks to the operators.

The Telephone Company reserves the right to monitor the traffic levels on the trunks ordered for this service and to inform the customer if any of the trunks ordered to carry this traffic are unnecessary. If the customer has ordered excessive trunks to carry the traffic level, the Telephone Company, sixty days after notification in writing to the customer of this situation, may disconnect the excessive trunks. The customer may retain these trunks if he notifies the Telephone Company, in writing, at least fourteen (14) days before the scheduled disconnect. This letter should demonstrate a change in circumstances which will show a need for the trunks scheduled to be disconnected.

The Telephone Company assumes no obligation for any contacts and arrangements the customer may have with its end users for the provision, maintenance or billing and collection associated with this service.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.9 Busy Line Interrupt (BLI) and Busy Line Verification (BLV) Service (Cont'd)

(D) Customer Obligations

The customer shall determine and order in trunk(s) and interface types the access services it needs to provide BLI and BLV access service.

The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

The customer shall order separate trunk(s) group for the provision of this service to terminate in operator services switches specified by the Telephone Company.

The customer recognizes that the Telephone Company operator will respond to a request to verify or verify and interrupt one telephone number per call and will not transfer, redial or forward the call to another location for any other purpose than the provision of BLI and BLV service.

Jurisdictional reporting will apply as set forth in Section 2, preceding, for determining the Percent Interstate Usage (PIU).

(E) Rates and Charges

A Busy Line Verification must be made, and its Service Charge incurred prior to a Busy Line Interruption.

	<u>Rate</u>
- Busy Line Interrupt, per call	\$1.60
- Busy Line Verification, per call	\$0.99
- BLI and BLV Installation Charge per path provided for the customer's use to the OSPS location	Charges are the same as those for Switched Access Service trunks, as set forth in Section 6.

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.10 Central Office (CO) Implemented Coin Line

(N)

- A. Central Office Implemented Coin Line provides coin signaling. It is a line side connection from the local exchange switch to the point of demarcation at the customer premise. The line is purchased out of the company's local tariff, while the features may be purchased out of either the local tariff or this Federal tariff.
- B. Features are additives to the operation of a flat rate access line that provide for CO Implemented coin line service. The Company offers those features that are provided by the functionality of the Company's switches. These include coin supervision, coin control (collect and return of coins, if applicable), and answer supervision. CO implemented coin line features that are implemented by the functionality of an operator service provider, such as coin rating, coin refund, repair referral, and operator call screening, are the responsibility of the Payphone service provider (Customer).
- C. CO Implemented Coin Line features, including coin line signaling, coin collect and return (where applicable) and answer supervision, are provided by the Telephone Company per the technology available from the Company's facilities. It shall be the responsibility of the CO Implemented Coin Line payphone owner to assure technical and operational compatibility with the coin line features offered by the Telephone Company.
- D. CO Implemented Coin Line Features includes the bundled elements of answer supervision and coin collection and return. Answer Supervision provides signaling on the line notifying the line that the called party has answered. Coin Collection and Return provides an electrical signal on a CO Implemented Line indicating to the payphone equipment to collect or return coin(s) to the calling party.

Monthly Rate

\$2.21

(N)

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.11 Access Recovery Charge (ARC)

(N)

A. General

Pursuant to the Federal Communications Commission's Report and Order and Further Notice of Proposed Rulemaking, FCC 11-161, adopted October 27, 2011, and released November 18, 2011 in WC Docket No. 10-90, the Access Recovery Charge is assessed on End User common lines to the extent necessary to recover some or all of the Telephone Company's eligible recovery.

The Telephone Company is allowed to charge a limited monthly Access Recovery Charge of \$.50 per month, per line, with a maximum annual increase of \$.50 per month, per line for residential and single line business customers for a total Access Recovery Charge of no more than \$3.00 in the sixth year; and \$1.00 per month, per line, for multi-line business customers, for a total of \$6.00 per line in the sixth year.

The Access Recovery Charge allowed may not be assessed to the extent that its assessment would bring the total of the Rate Ceiling Component Charges above the Residential Rate Ceiling of \$30.00. This limitation does not apply to single-line business customers and multi-line business customers.

The Access Recovery Charge may not be assessed to the extent that its assessment would bring the total of the multi-line business and end user common line charge and the Access Recovery Charge above \$12.20 per line.

The Access Recovery Charge may not be assessed on lines of Lifeline Customers.

(N)

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.11 Access Recovery Charge (ARC) (Cont'd)

A. Rate & Charges

The Access Recovery Charge will apply on a per month, per line basis, excluding lifeline customers. The applicable charge is:

Residential Lines

<u>Exchange</u>	<u>Monthly Rate</u>
Browns Park	\$0.00
Christmas Meadows	\$3.00
Dutch John	\$2.36
Elk Mountain	\$0.00
Encampment	\$0.00
Greendale	\$2.36
Hanna	\$0.00
Labarge	\$0.00
Lyman	\$0.00
Manila	\$2.36
Manila-McKinnon	\$0.00
Mountain View	\$0.00
Rock River	\$0.00
Saratoga	\$0.00
Shirley Basin	\$0.00
Urie	\$0.00

(I)

Single-line Business

<u>Exchange</u>	<u>Monthly Rate</u>
Browns Park	\$3.00
Christmas Meadows	\$3.00
Dutch John	\$3.00
Elk Mountain	\$3.00
Encampment	\$3.00
Greendale	\$3.00
Hanna	\$3.00
Labarge	\$3.00
Lyman	\$3.00
Manila	\$3.00
Manila-McKinnon	\$3.00
Mountain View	\$3.00
Rock River	\$3.00
Saratoga	\$3.00
Shirley Basin	\$3.00
Urie	\$3.00

(I)

(I)

ACCESS SERVICE

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

9.3 Miscellaneous Services (Cont'd)

9.3.11 Access Recovery Charge (ARC) (Cont'd)

B. Rate & Charges (Cont'd)

Multi-line Business

<u>Exchange</u>	<u>Monthly Rate</u>
Browns Park	\$3.00
Christmas Meadows	\$3.00
Dutch John	\$3.00
Elk Mountain	\$3.00
Encampment	\$3.00
Greendale	\$3.00
Hanna	\$3.00
Labarge	\$3.00
Lyman	\$3.00
Manila	\$3.00
Manila-McKinnon	\$3.00
Mountain View	\$3.00
Rock River	\$3.00
Saratoga	\$3.00
Shirley Basin	\$3.00
Urie	\$3.00

(I) _____ (I)

ACCESS SERVICE10. Special Construction10.1 General

This section addresses special construction of Telephone Company facilities which are used to provide services offered under this tariff.

When special construction is required as described in Section 10.2, following, the provisions of this section apply in addition to regulations, rates, and charges set forth in other sections of this tariff.

Regulations and rates will be added to this tariff for each specific application of Special Construction. The customer will provide written authorization to the Telephone Company prior to the commencement of any Special Construction.

10.2 Conditions Requiring Special Construction

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

- The Telephone Company has no other requirement for the facilities constructed at the customer's request;
- The customer requests that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would otherwise utilize in furnishing the requested service;
- The customer requests the construction of more facilities than are required to satisfy its order for service;
- The customer requests construction be expedited resulting in added cost to the Telephone Company;
- The customer requests that temporary facilities be constructed until permanent facilities are available.

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces11.1 Local Transport Interface Groups

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2 through 10 are provided with Type 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 designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Feature Groups with which they may be used, are set forth in 11.1.1, following.

Ten Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, and at the option of the customer, the Entrance Facility may be provided with optional features as set forth in Section 11.1.1, following.

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

11.1.1 Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3,000 Hz.

ACCESS SERVICE

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

11.1 Local Transport Interface Groups (Cont'd)

11.1.1 Interface Group 1 (Cont'd)

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGC or FGD when the first point of switching provides only four-wire terminations.

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3,000 Hz.

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.1 Local Transport Interface Groups (Cont'd)11.1.1 Interface Group 1 (Cont'd)

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

11.1.2 Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3,000 Hz.

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3,000 Hz.

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

11.1.3 Interface Group 3

Interface Group 3 provides group level analog transmission at the point of termination at the customer designated 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

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.1 Local Transport Interface Group (Cont'd)11.1.3 Interface Group 3 (Cont'd)

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 approximately 300 to 3,000 Hz.

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

11.1.4 Interface Group 4

Interface Group 4 provides supergroup level analog transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3,000 Hz.

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

11.1.5 Interface Group 5

Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer designated premises. The

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.1 Local Transport Interface Groups (Cont'd)11.1.5 Interface Group 5 (Cont'd)

interface is capable of transmitting electrical signals between the frequencies of 564 to 3,084 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 3,000 Hz.

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

11.1.6 Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3,000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide a DS1 signal in D3/D4 format.

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

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.1 Local Transport Interface Groups (Cont'd)11.1.7 Interface Group 7

Interface Group 7 provides DS1C level digital transmission at the point of termination at the customer designated 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 3,000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format. The interface is provided with individual transmission path bit stream supervisory signaling.

11.1.8 Interface Group 8

Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer designated 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 3,000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format.

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.1 Local Transport Interface Groups (Cont'd)11.1.8 Interface Group 8 (Cont'd)

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

11.1.9 Interface Group 9

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer designated 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 3,000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format.

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

11.1.10 Interface Group 10

Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer designated premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4,032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog

ACCESS SERVICE

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

11.1 Local Transport Interface Groups (Cont'd)

11.1.10 Interface Group 10 (Cont'd)

terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4,032 transmission paths of a frequency bandwidth of approximately 300 to 3,000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide DS1 signals in D3/D4 format. The interface is provided with individual transmission path bit stream supervisory signaling.

11.1.11 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 Section 11.3, following.

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group Group C</u>	<u>Feature Group Group D</u>
1	RV, EA, EB, EC	2DX3	X	X
	RV, EA, EB, EC	4EA3-E	X	X
	RV, EA, EB, EC	4EA3-M	X	X
	RV, EA, EB, EC	6EB3-E	X	X
	RV, EA, EB, EC	6EB3-M	X	X
	EA, EB, EC	6EC3	X	X
	RV	2RV3-0	X	X
	RV	2RV3-T	X	X

ACCESS SERVICE

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

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group Group C</u>	<u>Feature Group Group D</u>
2	RV, EA, EB, EC	4SF2	X	X
	RV, EA, EB, EC	4DX2	X	X
	RV, EA, EB, EC	6DX2	X	X
	RV, EA, EB, EC	6EA2-E	X	X
	RV, EA, EB, EC	6EA2-M	X	X
	RV, EA, EB, EC	8EB2-E	X	X
	RV, EA, EB, EC	8EB2-M	X	X
	EA, EB, EC	8EC2-M	X	X
	RV	4RV2-O	X	X
	RV	4RV2-T	X	X
	RV	4RV3-O	X	X
	RV	4RV3-T	X	X
	3	RV, EA, EB, EC	4AH5-B	X
4	RV, EA, EB, EC	4AH6-C	X	X
5	RV, EA, EB, EC	4AH6-D	X	X
6	RV, EA, EB, EC	4DS9-15	X	X
	RV, EA, EB, EC	4DS9-15L	X	X
	SS7	4DS9-15L	X	X
7	RV, EA, EB, EC	4DS9-31	X	X
	RV, EA, EB, EC	4DS9-31L	X	X
	SS7	4DS9-31	X	X

ACCESS SERVICE

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

11.1 Local Transport Interface Groups (Cont'd)

11.1.11 Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group Group C</u>	<u>Feature Group Group D</u>
8	RV, EA, EB, EC	4DSO-63	X	X
	RV, EA, EB, EC	4DS0-63L	X	X
	SS7	4DS0-63	X	X
9	RV, EA, EB, EC	4DS6-44	X	X
	RV, EA, EB, EC	4DS6-44L	X	X
	SS7	4DS6-44	X	X
10	RV, EA, EB, EC	4DS6-27	X	X
	RV, EA, EB, EC	4DS6-27L	X	X

11.1.12 Supervisory Signaling

- 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 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., non digital, interface to the transport termination, and is not available in combination with the SS7 Signaling option.

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service

11.2.1 Standard Transmission Specifications

Following are descriptions of the two Standard Transmission Specifications available with Switched Access Service Feature Group C. The specific applications in terms of Feature Group C and Interface Groups with which the Feature Group Standard Transmission Specifications are provided are set forth in Section 6.5, preceding.

(A) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1,004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2,804 Hz frequency band relative to loss at 1,004 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:

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type B Transmission Specifications (Cont'd)

(3) C-Message Noise (Cont'd)

<u>Route Miles</u>	<u>C-Message Noise Type B2</u>
less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1,000	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 Equal Level Echo Path Loss for FGC 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 Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) 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 FGC access (Effective 4-wire trans- mission path at end office)	16 dB	11 dB
. For FGC access (Effective 2-Wire trans- mission path at end office)	13 dB	6 dB

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(A) Type B Transmission Specifications (Cont'd)

(6) Standard Return Loss (Cont'd)

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
-------------------------	----------------------------

5 dB

2.5 dB

(B) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1,004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2,804 Hz frequency band relative to loss at 1,004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise Type C2</u>
less than 50	38 dBrnCO
51 to 100	39 dBrnCO
101 to 200	41 dBrnCO
201 to 400	43 dBrnCO
401 to 1,000	45 dBrnCO

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(B) 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 dBnCO.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo 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

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(C) Reserved for Future Use

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.1 Standard Transmission Specifications (Cont'd)

(C) Reserved for Future Use

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for Feature Group C arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in Section 6.5, preceding. 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.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

Less than 50 route miles 500 microseconds

equal to or greater than
50 route miles

900 microseconds

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

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

(2) Envelope Delay Distortion (Cont'd)

<u>1,004 to 2,404 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 dB_{rnCO} 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 degrees peak-to-peak.

(6) Frequency Shift

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

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

<u>604 to 2,804 Hz</u>	
less than 50 route miles	800 microseconds
50 route miles	1000 microseconds
<u>1,004 to 2,404 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 dBmCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

(6) Frequency Shift

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

ACCESS SERVICE

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

11.2 Transmission Specifications Switched Access Service (Cont'd)

11.2.2 Data Transmission Parameters (Cont'd)

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.3 Special Access Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct Trunked Transport. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

When ordering, the type of Special Access Service or Switched Access entrance Facility or Direct Trunked Transport is described by two code sets, the Network Channel (NC) code and the Network Channel Interface (NCI) codes.

The Network Channel (NC) code consists of two elements. Element one is a Channel Service Code (character positions 1 and 2) that describes the channel service type in an abbreviated form. element two is an Optional Feature Code (character positions 3 and 4) that identifies option codes available for each channel service code, such as C-conditioning or Improved Return Loss.

The Network channel Interface (NCI) is used to identify interface specification associated with a particular channel. This code describes the total wires, protocol, impedance, protocol options and transmission level point(s) reflecting physical and electrical characteristics between the Telephone Company and the customer.

Example: If the customer specifies a NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

ACCESS SERVICE

1. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

- NT = Metallic Channel with a Predefined Technical Specification Package (1)
- 2 = Number of physical wires at customer premises
- DC = Facility interface for direct current or voltage
- 8 = Variable impedance level
- 3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

11.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
CT -		Centrex Tie Trunk Termination
DA -		data stream in VF frequency band at customer's end user's point of termination
DB -		data stream in VF frequency band at customer's point of termination
-	10	VF for TG1 and TG2
-	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC -		direct current or voltage
-	1	monitoring interface with services RC combination (McCulloh format)
-	2	Telephone Company energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD	-	DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE	-	DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS	-	digital hierarchy interface
	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
	15J	1.544 Mbps format per PUB 41451
	15K	1.544 Mbps format per PUB 41451 plus extended framing format
	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

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
-	48	4.8 kbps
-	56	56.0 kbps
-	96	9.6 kbps
-	A	1.544 Mbps format per PUB 41451
-	B	1.544 Mbps format per PUB 41451 plus D4
-	C	1.544 Mbps format per PUB 41451 plus extended farming 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.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -		Type III E&M signaling at customer POT
EX -	A	Tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX -	B	Tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO -		Ground start loop signaling - open end function by customer or customer's end user.

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
GS	-	Ground start loop signaling - closed end function by customer or customer's end user.
IA	-	E.I.A. (25 pin RS-232)
LA	-	end user loop start loop signaling - Type A OPS registered port open end.
LB	-	end user loop start loop signaling - Type B OPS registered port open end.
LC	-	end user loop start loop signaling - Type C OPS registered port open end.
LO	-	loop start loop signaling - open end function by customer or customer's end user.
LR	-	20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR.
LS	-	loop start loop signaling - closed end function by customer or customer's end user
NO	-	no signaling interface, transmission only.
PG	-	program transmission - no dc signaling.
	1	nominal frequency from 50 to 15,000 Hz.
	3	nominal frequency from 200 to 3,500 Hz.
	5	nominal frequency from 100 to 5,000 Hz.
	8	nominal frequency from 50 to 8,000 Hz.
PR		protective relaying*.

*Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
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.
TF -		telephotograph interface.
TT -		telegraph/teletypewriter interface at either customer POT or customer's end user POT.
-	2	20.0 milliamperes.
-	3	3.0 milliamperes.
-	6	62.5 milliamperes.
TV -		television interface.
-	1	combined (diplexed) video and one audio signal.
-	2	combined (diplexed) video and two audio signals.
-	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two-wire.
-	15	video plays one (or two) audio 15 kHz signal(s).

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.2 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

+ For those interface codes with a 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. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS0 or 4DS6 plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1
4DS8-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

11.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, MT2, etc.) and the network channel codes that are used for:

<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

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
VG2	LC
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

ACCESS SERVICE11. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)11.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

(A) MetallicCompatible CIs

2DC8-1 2DC8-2

2DC8-3 2DC8-3

4DS8-* 2DC8-1

4DS8-* 2DC8-2

* See Section 11.3.3, preceding, for explanation.

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS2	2LA2
	4DS8*		2LB2		2LB2
	4DX2		2LC2		2LC2
	4DX3		2LO3		
	4DY2		2LS2	2LS3	2LA2
	4EA2-E		2LS3		2LB2
	4EA2-M				2LC2
	4SF2	2GO2	2GS2		
	4SF3		2GS3	2NO2	2DA2
	6DX2				2NO2
	6DY2	2GO3	2GS2		
	6DY3		2GS3	2NO3	2NO2
	6EA2-E				2PR2
	6EA2-M	2LO2	2LS2		
	6EB2-E		2LS3	2TF3	2TF2
	6EB2-M				
	6EB3-E	2LO3	2LS2		
	8EB2-E		2LS3		
	8EB2-M				
	8EC2				
	9DY2				
	9DY3				
	9EA2				
	9EA3				

* See Section 11.3.3, preceding, for explanation.

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

Compatible CIs

4AB2 2AC2
4AB2
4AC2
4SF2

4AB3 2AC2
4AC2
4SF2

4AC2 2AC2
4AC2

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

	<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
		4DS8-* 2AC2	4DS8-* 4DG2
		2DA2	4LR2
		2DY2	4LS2
		2GO2	4NO2
4DA2	4DA2	2GO3	4PR2
		2GS2	4RV2-T
4DB2	2DA2	2GS3	4SF2
	2NO2	2LA2	4SF3
	2PR2	2LB2	4TF2
	4DA2	2LC2	6DA2
	4DB2	2LO2	6DY2
	4NO2	2LO3	6DY3
	4PR2	2LR2	6EA2-E
	6DA2	2LS2	6EA2-M
		2LS3	6EB2-E
4DD3	2DE2	2NO2	6EB2-M
	4DE2	2PR2	6GS2
		2RV2-T	6LS2
		2TF2	8EB2-E
		4AC2	8EB2-M
		4DA2	9DY2
		4DE2	9DY3
		4DX2	9EA2
		4DX3	9EA3
		4DY2	
		4EA2-E	
		4EA2-M	

* See Section 11.3.3, preceding, for explanation.

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
4DX2 2DY2	4DX2 8EB2-E	4DX3 6DY2
2LA2	8EB2-M	6DY3
2LB2	9DY2	6EA2-E
2LC2	9DY3	6EA2-M
2LO3	9EA2	6EB2-E
2LS2	9EA3	6EB2-M
2LS3		6LS2
2RV2-T	4DX3 2DY2	8EB2-E
4DX2	2LA2	8EB2-M
4DY2	2LB2	9DY2
4EA2-E	2LC2	9DY3
4EA2-M	2LO3	9EA2
4LS2	2LS2	9EA3
4RV2-T	2LS3	
4SF2	2RV2-T	4DY2 2DY2
4SF3	4DX2	4DY2
6DY2	4DX3	
6DY3	4DY2	
6EA2-E	4EA2-E	
6EA2-M	4EA2-M	
6EB2-E	4LS2	
6EB2-M	4RV2-T	
6LS2	4SF2	
	4SF3	

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
4EA2-E 2DY2	4EA3-E 2DY2	4GO2 2G02
4DY2	4DY2	2GO3
4EA2-E	4EA2-E	2GS2
4EA2-M	4EA2-M	2GS3
4SF2	4SF2	4GS2
6DY2	6DY2	4SF2
6DY3	6DY3	6GS2
6EB2-E	6EA2-E	
6EB2-M	6EA2-M	4GO3 2GO2
8EB2-E	6EB2-E	2GS2
8EB2-M	6EB2-M	2GS3
9DY2	8EB2-E	4GS2
9DY3	9EB2-M	4SF2
	9DY2	6GS2
4EA2-M 2DY2	9DY3	
4DY2	9EA2	
4EA2-M	9EA3	
4SF2		
6DY2		
6DY3		
6EB2-E		
6EB2-M		
8EB2-E		
8EB2-M		
9DY2		
9DY3		

ACCESS SERVICE

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4LO2	2LS2	4LS3	2LA2	4SF2	2LO3
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2LO2		2LS3
	6LS2		2LO3		2RV2-T
			4SF2		4AC2
4LO3	2LS2				4DY2
	2LS3	4NO2	2DA2		4LS2
	4LS2		2DE2		4RV2-T
	4SF2		2NO2		4SF2
	6LS2		4DA2		6DY2
			4DE2		6DY3
4LR2	2LR2		4NO2		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
		4RV2-O	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2GO3
	4SF2				2GS2
		4SF2	2AC2		2GS3
4LS2	2LA2		2DY2		2LA2
	2LB2		2GS2		2LB2
	2LC2		2GS3		2LC2
	2LO2		2LA2		2LO3
	2LO3		2BL2		2LR2
			2LC2		

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
		6DY2	2DY2		4SF3
4TF2	2TF2		4DY2		6DY2
	4TF2		6DY2		6DY3
					6EA2-E
					6EA2-M

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2
	9DY3		8EB2-E		6DY3
			8EB2-M		6EA2-E
6EA2-M	2AC2		9DY2		6EA2-M
	2DY2		9DY3		8EB2-E
	2LA2				8EB2-M
	2LB2	6EB2-E	2DY2		9DY2
	2LC2		4DY2		9DY3
	2LO3		4SF2		9EA2
	2LS2		6DY2		9EA3
	2LS3		6DY3		
	2RV2-T		6EB2-E	6EX2-A	2GS2
	4AC2		6EB2-M		2GS3
	4DY2		9DY2		2LS2
	4EA2-E		9DY3		2LS3
	4EA2-M				4GS2
	4LS2	6EB2-M	2DY2		4LS2
	4RV2-T		4DY2		4SF2
	4SF2		4SF2		6GS2
	4SF3		6DY2		6LS2
			6DY3		
			6EB2-M		
			9DY2		
			9DY3		

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

	<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
6EX2-B	2GO3	8EB2-E 2AC2	8EB2-M 2AC2
	2LA2	2DY2	2DY2
	2LB2	2LA2	2LA2
	2LC2	2LB2	2LB2
	2LO2	2LC2	2LC2
	2LO3	2LO3	2LO3
	2LR2	2LS2	2LS2
	4LR2	2LS3	2LS3
	4SF2	2RV2-T	2RV2-T
		4AC2	4AC2
6GO2	2GO2	4DY2	4DY2
	2GS2	4LS2	4LS2
	2GS3	4RV2-T	4RV2-T
	4GS2	4SF2	4SF2
	4SF2	4SF3	4SF3
	6GS2	6DY2	6DY2
		6DY3	6DY3
6LO2	2LS2	6EB2-E	6EB2-E
	2LS3	6EB2-M	6EB2-M
	4LS2	6LS2	6LS2
	4SF2	8EB2-E	8EB2-M
	6LS2	8EB2-M	9DY2
		9DY2	9DY3
6LS2	2LA2	9DY3	
	2LB2		
	2LC2		
	2LO2		
	2LO3		
	4SF2		

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(B) Voice Grade (Cont'd)

	<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	6EA2-M		6DY2		6EB2-E
	6EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3
	9EA2		4EA2-E		
	9EA3		4EA2-M		
			6DY2		
			6DY3		
			6EA2-E		
			6EA2-M		
			6EB2-E		
			6EB2-M		
			8EB2-E		
			8EB2-M		
			9DY2		
			9DY3		
			9EA2		
			9EA3		

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

11.3 Special Access Channel Interface and Network Channel Codes (Cont'd)

11.3.5 Compatible Channel Interfaces (Cont'd)

(C) Reserved for Future Use

(D) High Capacity

Compatible CIs

Compatible CIs

4DS8-15 4DS8-15+
 4DU8-B

4DU8-A,B
or C

6DU8-8

4DU8-A,B
or C

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

11.4 WATS Access Line Standard Transmission Specifications

11.4.1 Standard Two-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1,004 Hz loss relative to the Expected Measured Loss (EML) is plus or minus 4.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2,804 Hz frequency band relative to the loss at 1,004 Hz in -3.0 dB to +9.0 dB.

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBmCO
51 to 100	37 dBmCO
101 to 200	40 dBmCO
201 to 400	43 dBmCO
401 to 1,000	45 dBmCO

(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

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

11.4 WATS Access Line Standard Transmission Specifications (Cont'd)

11.4.2 Standard Four-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1,004 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 2,804 Hz frequency band relative to loss at 1,004 Hz is -1.0 dB to +4.5 dB.

(C) C-Message Noise

The Maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBmCO
51 to 100	37 dBmCO
101 to 200	40 dBmCO
201 to 400	43 dBmCO
401 to 1,000	45 dBmCO

(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

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The maximum Signal-to-C-Notched Noise Ratio is 30 dB.

11.5.2 Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands specified is:

1,000 microseconds	604 to 2,804 Hz
500 microseconds	1,000 to 2,404 Hz

11.5.3 Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dB_{rnCO} threshold in 15 minutes is no more than 15 counts.

Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

11.5.4 Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

11.5.5 Frequency Shift

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

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

11.6 WATS Access Line Transmission Specifications

11.6.1 Improved Two-Wire Voice Transmission Specifications

(A) Loss Deviation

The maximum Loss Deviation of the 1,004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 to +4.0 dB.

(B) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1,004 Hz is -2.0 dB to +6.0 dB.

(C) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBmCO
51 to 100	37 dBmCO
101 to 200	40 dBmCO
201 to 400	43 dBmCO
401 to 1,000	45 dBmCO

(D) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB