

ACCESS SERVICE

Regulations, Rates, and Charges
applicable to the provision of Access Services
within a Local Access and Transport Area (LATA) or
Equivalent Market Area for connection to interstate
communications facilities for Interstate Customers within
the operating territory of the
Virgin Islands Telephone Corporation

This Interstate Service Guide is filed in compliance with the Federal Communications Commission's Report and Order, Business Data Services in an Internet Protocol Environment; Technology Transitions; Special Access for Price Cap Local Exchange Carriers; AT&T Corporation Petition for Rulemaking to Reform Regulation of Incumbent Local Exchange Carrier Rates for Interstate Special Access, WC Docket Nos. 16-143, 05-25, GN Docket No. 13-5 and RM-10593; FCC 17-43 (adopted April 20, 2017 and rel. April 28, 2017) ("BDS Order").

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

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EXPLANATION OF ABBREVIATIONS

AC	Alternating Current
AML	Actual Measured Loss
ANI	Automatic Number Identification
AP	Audio Program
AT&T	American Telephone and Telegraph Company
BDS	Business Data Services
BHMC	Busy Hour Minutes of Capacity
CDP	Customer-Designated Premises
CI	Channel Interface
C.F.R.	Code of Federal Regulations
CO	Central Office
Cont'd	Continued
CPE	Customer-Provided Equipment
DA	Directory Assistance
dB	Decibel
dBrnC	Decibel Reference Noise C-Message Weighting
dBrnC0	Decibel Reference Noise C-Message Weighted 0
DC	Direct Current
DDD	Direct Distance Dialing
EAS	Extended Area Service
EDD	Envelope Delay Distortion
EML	Expected Measured Loss
EPL	Echo Path Loss
ERL	Echo Return Loss
ESS	Electronic Switching System
ESSX	Electronic Switching System Exchange
f	Frequency
FCC	Federal Communications Commission
Hz	Hertz
IC	Interexchange Carrier
ICB	Individual Case Basis
ICL	Inserted Connection Loss
kbps	Kilobits per second
kHz	Kilohertz
LATA	Local Access and Transport Area
ma	Milliamperes
Mbps	Megabits per second
mcs	Microsecond
MHz	Megahertz
MRC	Monthly Recurring Charge

ACCESS SERVICE**EXPLANATION OF SYMBOLS (Cont'd)**

NXX	Three-Digit Central Office Prefix
PBX	Private Branch Exchange
PEC	Primary Exchange Carrier
POT	Point of Termination
SEC	Secondary Exchange Carrier
SRL	Singing Return Loss
SWC	Serving Wire Center
TG	Telegraph Grade
TLP	Transmission Level Point
TV	Television
VG	Voice Grade
V&H	Vertical & Horizontal
WATS	Wide Area Telecommunications Service(s)
WSO	WATS Serving Office

ACCESS SERVICE**REFERENCE TO TARIFFS**

Whenever reference is made in this Interstate Service Guide (“Guide” or “ISG”) to tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this Guide.

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this Guide and may be obtained from Bell Communications Research, Inc., Customer Services, 600 New England Avenue, Piscataway, New Jersey 08854-4196.

Technical Reference:

Multiple Exchange Carrier Access Billing (MECAB) Guidelines

Issued: November 1987

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines

Issued: November 1985

PUB 41451 High Capacity Terrestrial Digital Service

Issued: January 1983

PUB 41004 Data Communications Using Voiceband Private Line Channels

Issued: October 1983

PUB 62310 Digital Data System Channel Interface Specification

Issued: September 1983

PUB 62411 High Capacity Digital Service Channel Interface Specification

Issued: September 1983

TR-NPL-000334 Voice Grade Switched Access Service

Issued: June 1986

TR-NPL-000335, Revision 1 Voice Grade Special Access

Issued: February 1987

TR-NPL-000336 Metallic and Telegraph Grade Special Access Services

Issued: October 1987

ACCESS SERVICE**REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)**

PUB 62503 Program Audio Special Access Service

Issued: December 1983

PUB 62503 Addendum Program Audio Special Access Service

Issued: March 1984

TR-NPL-000338 Television Special Access and Local Channel Services

Issued: December 1986

PUB 62507 Digital Data Special Access Service

Issued: December 1983

PUB 62508 High Capacity Digital Special Access Service

Issued: December 1983

SR-ISD-000307 NC/NCI Code Dictionary

Issued: March 1988

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

Telecommunications Transmission Engineering

Volume 3 - Networks and Services (Chapters 6 and 7)

Second Edition, 1980

Issued: June 1980

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

PUB AS No. 1, Issue II Access Service

Issued: May 1984

Addendum: March 1987

ACCESS SERVICE**1. APPLICATION OF INTERSTATE SERVICE GUIDE**

- 1.1 This Interstate Service Guide (“Guide”) contains regulations, rates, and charges applicable to the provision of certain Special Access services, Public Packet Data Networks, and other miscellaneous services, hereinafter referred to collectively as service(s). These services are provided to customers by the Virgin Islands Telephone Corporation (“Vitelco”), hereinafter the Telephone Company. This Guide also contains Access Ordering regulations and charges that are applicable when these services are ordered or modified by the customer.

The Special Access service rates and charges that remain subject to Section 203 of the Communications Act are filed in Section 17.3 of Vitelco’s Tariff F.C.C. No. 1 and include only certain Special Access services offered in Noncompetitive Service Areas, as defined in Section 2.6. Rates and charges for Special Access services not subject to Section 203 are provided in Section 16 of this Guide. Noncompetitive and Competitive Special Access Services may be combined to provide end-to-end circuits, and, in some instances, Special Access services will be referred to in general terms to assist in understanding the services that encompass an entire circuit.

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

2.1.2 Limitations**(A) Assignment or Transfer of Services**

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

- (1) Another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or
- (2) A court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.2 Limitations (Cont'd)(A) Assignment or Transfer of Services (Cont'd)

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

(B) Use and Restoration of Services

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

(C) Sequence of Provisioning

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

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

2.1.3 Liability(A) Limits of Liability

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability (Cont'd)(B) Acts or Omissions

The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall the Telephone Company for its own act or omission hold liable any other carrier or customer providing a portion of a service.

(C) Damages to Customer Premises

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

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

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

- (a) claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;
- (b) claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end users or customer; or
- (c) all other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this Guide.

(2) By the Customer

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability (Cont'd)(D) Indemnification of Telephone Company (Cont'd)(2) By the Customer (Cont'd)

- (a) claims for libel, slander invasion of privacy, or infringement of copyright arising from the customer's own communications;
- (b) claims for patent infringement arising from the customer's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or customer; or
- (c) all other claims arising out of any act or omission of the customer in the course of using services provided pursuant to this Guide.

(E) Explosive Atmospheres

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

(F) No License Granted

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

(G) Circumstances Beyond the Telephone Company's Control

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

ACCESS SERVICE**2. GENERAL REGULATIONS (Cont'd)****2.1 Undertaking of the Telephone Company (Cont'd)****2.1.4 Provision of Services**

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

2.1.5 Facility Terminations

The services provided under this Guide will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a suitable location inside a customer designated premises. Such wiring or cable will be installed by the Telephone Company to the Point of Termination. Moves of the Point of Termination at the customer designated premises will be performed as set forth in and 7.2.3 following.

2.1.6 Service Maintenance

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

2.1.7 Changes and Substitutions

Except with respect to equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, substitute, change or rearrange any facilities used in providing service under this Guide. Such actions may include, without limitation:

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

ACCESS SERVICE**2. GENERAL REGULATIONS (Cont'd)****2.1 Undertaking of the Telephone Company (Cont'd)****2.1.7 Changes and Substitutions (Cont'd)**

In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 15 following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer-furnished services obsolete or requires modification or alteration thereof or otherwise affects the use or performance of customer-furnished services. If to the knowledge of the Telephone Company such substitution, change or rearrangement will materially affect the operating characteristics of the Service, the Telephone Company will provide written notification to the customer. A reasonable period of time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

2.1.8 Refusal and Discontinuance of Service

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

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

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

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

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.8 Refusal and Discontinuance of Service (Cont'd)

- (C) Except with respect equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R. Section 68.108, if the customer fails to comply with 2.2.1 following (Interference or Impairment), the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, the Telephone Company may temporarily discontinue service forthwith if such action is reasonable in the circumstances. In case of such temporary discontinuance, the customer will be notified promptly and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.
- (D) When access service is provided by more than one telephone company, the companies involved in providing the joint service may individually or collectively deny service to a customer for nonpayment. Where the telephone companies affected by the nonpayment is incapable of effecting discontinuance of service without cooperation from the other joint providers of Switched Access Service, such other telephone company(ies) will, if technically feasible, assist in denying the joint service to the customer. Service denial for such joint service will only include calls originating or terminating within, or transiting, the operating territory of the telephone company initiating the service denial for nonpayment. When more than one of the joint providers must deny service to effectuate termination for nonpayment, in cases where a conflict exists in the applicable tariff provisions, the tariff regulations of the end office telephone company shall apply for joint service discontinuance.
- (E) If the Telephone Company does not refuse additional applications for service and/or does not discontinue the provision of the services as specified for herein, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's ability to refuse additional applications for service and/or to discontinue the provision of the services to the non-complying customer without further notice.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.8 Refusal and Discontinuance of Service (Cont'd)

(F) If the National Exchange Carrier Association (NECA), Inc., notifies the Telephone Company that the Customer has failed to comply with Lifeline Assistance and Universal Service Fund provisions contained in NECA FCC No. 5, Section 8, including any customer's failure to make payments on the date and times specified therein, the Telephone Company may, on thirty (30) days' written notice to the customer by Certified U.S. Mail, take any of the following actions:

- refuse additional applications for service
- refuse to complete any pending orders for service
- discontinue the provision of service to the Customer

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

2.1.9 Notification of Service-Affecting Activities

The Telephone Company will provide the customer reasonable notification of service-affecting activities that may occur in the normal operation of its business. Such activities may include, but are not limited to the following:

- equipment or facilities additions
- removals or rearrangements
- routine preventative maintenance
- major switching machine change-out

Generally, such activities are not individual customer service specific, but may affect many customer services. No specific advance notification period is applicable to all service activities. The Telephone Company will work cooperatively with the customer to determine reasonable notification requirements.

2.1.10 Coordination with Respect to Network Contingencies

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

ACCESS SERVICE**2. GENERAL REGULATIONS (Cont'd)****2.1 Undertaking of the Telephone Company (Cont'd)****2.1.11 Provision and Ownership of Telephone Numbers**

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

2.2 Use**2.2.1 Interference or Impairment**

The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not:

- interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services,
- cause damage to their plant,
- impair the privacy of any communications carried over their facilities, or
- create hazards to their employees or to the public.

2.2.2 Unlawful and Abusive Use

The service provided under this tariff shall not be used for any unlawful purpose or in any abusive manner.

Abusive use includes:

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

ACCESS SERVICE**2. GENERAL REGULATIONS (Cont'd)****2.3 Obligations of the Customer****2.3.1 Damages**

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff caused by the willful act or negligence 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 persons other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

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

2.3.3 Equipment Space and Power

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

2.3.4 Availability for Testing

Access to facilities used to provide services under this tariff shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable period. As set forth in 2.4.4(C)(4) following (Credit Allowances for Service Interruptions), no credit will be allowed for any interruptions during such tests and adjustments.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.5 Limitation of Use of Metallic Facilities

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

2.3.6 Balance

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

2.3.7 Design of Customer Services

Subject to the provisions of 2.1.7 preceding (Changes and Substitutions), the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesign or rearrangement of its services that 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.

2.3.9 Claims and Demands for Damages

(A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.9 Claims and Demands for Damages (Cont'd)

- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses and damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this tariff including, without limitation, Worker's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, actions for libel and slander based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees.
- (C) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act of omission of the customer in the course of using services provided under this tariff.

2.3.10 Coordination with Respect to Network Contingencies

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

2.3.11 Jurisdictional Report and Certification Requirements(A) Certification Requirements - Special Access, and Public Packet Data Network Services

When the customer orders Special Access Service or Public Packet Data Network Service, and the customer certifies to the Telephone Company in writing that more than ten percent of the traffic is interstate, the service is considered to be interstate and is provided under this Guide.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Report and Certification Requirements (Cont'd)(B) Disputes Involving Jurisdictional Certification - Special Access

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

2.4 Payment Arrangements and Credit Allowances2.4.1 Payment of Rates, Charges and Deposits(A) Deposits

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

Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the interest rate calculated as the lesser of:

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(A) Deposits (Cont'd)

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

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

(B) Bill Dates

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(B) Bill Dates (Cont'd)(1) Reserved for Future Use(2) Access Services Other Than End User, Digital Subscriber Line, and Presubscription

For Service other than End User Access Service, Digital Subscriber Line Access Service, and Presubscription Service, the Telephone Company will establish a bill day each month for each customer account or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days' notice or initiated by the Telephone Company more than twice in any consecutive twelve (12) month period.

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(C) Payment Dates and Late Payment Penalties

- (1) All bills dated as set forth in (B)(2) preceding for service, other than End User Service, Digital Subscriber Line Access Service, and Presubscription Service, provided to the customer by the Telephone Company are due fifteen (15) days (payment date) for Special Access after the bill day or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If the customer does not receive a bill at least twenty (20) days prior to the thirty-one (31) day payment due date, then the bill shall be considered delayed.

When the bill has been delayed, upon request of the customer the due date will be extended by the number of days the bill was delayed. Such request of the customer must be accompanied with proof of late bill receipt.

All bills dated as set forth in (2) following for service provided to the customer by the Telephone Company are due fifteen (15) days (payment date) for Special Access after the bill day or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Martin Luther King, Jr. Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day the second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for such bills will be due from the customer as follows:

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(C) Payment Dates and Late Payment Penalties (Cont'd)

- (2) Further, if no payment is received by the payment date or if a payment or any portion of a payment is received by the Telephone Company after the payment date as set forth in (1) preceding, or if a payment or any portion of a payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be a flat fee of \$2.00 per bill or equivalent.

(D) Valid Billing Dispute

A valid billing dispute consists of written documentation specifically listing the total dollar amount of the dispute, specific rate elements being disputed and their dollar amounts. The dispute must be received in writing within 30 days after the due date of the bill. At least one of the seven following reasons must be given for the dispute to be considered valid.

1. Incorrect Rate
2. Error in quantity (i.e. minutes or quantity of circuits incorrect.)
3. Service no longer exists
4. Invalid factors
5. Incorrect customer being billed
6. Invalid Purchase Order Number (PON)
7. Backbilling

Refusal to pay an entire bill or any portion thereof without written supporting documentation will not be considered a valid dispute and will be handled as a nonpayment as set forth in 2.4.1 (C) preceding. These provisions do not negate the customer's right in any way to file a complaint with the FCC, pursuant to Section 208 of the Communications Act of 1934, as amended.

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

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(F) Billing Disputes Resolved in Favor of the Customer

If the customer pays the total billed amount and disputes all or part of the amount, the Telephone Company will refund any overpayment or will credit the customer's next bill.

(G) Rounding of Charges

When a rate as set forth in this tariff is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).

(H) Proration of Charges

Adjustment for the monthly charges of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated based upon the monthly rate divided by the number of days in the billing cycle times number of days billed for service.

(I) Taxes, Fees and Surcharges

There shall be added to the customer's bills, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, or other similar fee or tax or cost of a tax now or hereafter imposed upon the Telephone Company's interstate revenues by a taxing jurisdiction, and which fee or tax is based upon a percentage of the interstate receipts of the Telephone Company. Where more than one such fee or tax is imposed, each of the charges or taxes applicable to a customer shall be added to the customer's bill as separately identified items.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for the following, or as otherwise specified in the tariff:

- Special Access High Capacity Service
- Frame Relay Access Service

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

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

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

2.4.3 Cancellation of an Order for Service

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

2.4.4 Credit Allowance for Service Interruptions(A) General

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(B) When a Credit Allowance Applies

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

For the following services, any period during which the error performance is below that specified for the service will be considered as an interruption:

- Digital Data
- High Capacity

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

Credit allowances are computed as follows:

(1) Special Access Service

For Special Access Services, no credit shall be allowed for an interruption of less twenty-four (24) hours. The customer shall be credited for each period in which an interruption exceeds twenty-four (24) hours at a rate of 1/30 of the monthly charges for the facility or service.

The monthly charges used to determine the credit are as follows:

(a) Two-point Services

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

(b) Multipoint Services

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(B) When a Credit Allowance Applies (Cont'd)(1) Special Access Service (Cont'd)(c) Multiplexed Services

For multiplexed services, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service to the hub and any individual services from the hub. For Special Access, those charges include Channel Termination, Channel Mileage, and Optional Features and functions.

When the service that rides a channel of the multiplexed facility is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the hub to a customer premises (i.e., channel termination, channel mileage, and optional features and functions).

(d) Reserved for Future Use(e) Public Packet Data Network Services

For Public Packet Data Network Service rate elements, where available, the monthly charge shall be the total of all monthly rate element charges associated with the service (i.e., Frame Relay Access Connection, Frame Relay Inter-network Connection, End User Port, Inter-network Customer Port, and PVCs).

(2) Reserved for Future Use(3) Reserved for Future Use(4) Credit Allowances Cannot Exceed Monthly Rate

The credit allowance(s) for an interruption or for a series of interruptions shall not exceed any monthly rate for the service interrupted in any one monthly billing period.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in (B) preceding applies.
- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.
- (6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.
- (7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.

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

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(E) Temporary Surrender of a Service

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. No credit shall be granted for any surrender of service for less than twenty-four (24) hours. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

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

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

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

(B) Nonrecurring Charges Apply

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

2.4.6 Title or Ownership Rights

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company

When an Access Service is provided by more than one Telephone Company, the Telephone Companies involved will mutually agree upon one of the billing methods as set forth in (B)(1) and (2) following based upon the service being provided. The Telephone Company will notify the customer in writing of the billing method being used. The customer will place the order for the service as set forth in 5.2 following dependent upon the billing method.

(A) Reserved for Future Use

(B) Meet Point Billing

Meet Point Billing is required when an access service is provided by multiple Telephone Companies for Special Access Service.

Each Telephone Company jointly providing the access service will receive an order or a copy of the order from the customer as specified in 5.2 following and arrange to provide the service.

The Bill Rendering Company is a single bill arrangement for Special Access Service. The name of the Bill Rendering Company will be included in the meet point billing notification provided to the customer by all the telephone companies on all meet point billed services.

The non-Bill Rendering Company(s) is any Telephone Company(s) in whose territory a segment of the Special Access Channel Mileage is provided and/or where the customer's Point of Termination is located.

There are two Meet Point Billing Options, Single Bill and Multiple Bill. These billing options are explained in (1) and (2) following. When a single bill option cannot be agreed to by all telephone companies providing service, the multiple bill option is the default.

Each telephone company must provide meet point billing notification to the customer, in writing, when new service is ordered or thirty days prior to changing an existing meet point arrangement. The notification should include the following:

- The Meet Point Billing Option that will be used,
- The Telephone Company(s) that will render the bill(s).
- The Telephone Company(s) to whom payment(s) should be remitted, and
- The Telephone Company(s) that will provide the bill inquiry function.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)

A Telephone Company that renders a meet point bill, the Bill Rendering Company, will render the bill in accordance with the industry standards as described in the Multiple Exchange Carrier Access Billing (MECAB) Guidelines and the Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines. The bill will include cross reference(s) to the other telephone Company(s) providing service and common circuit identifiers. Should a billing dispute arise, the terms and conditions of the Bill Rendering company will apply.

(1) Single Bill Option

The single bill option allows the customer to receive one bill for access services that are provided by more than one company. The single bill option provides the following three billing alternatives:

- Single Bill/Multiple Tariff
- Single Bill/Pass Through Billing, and
- Single Bill/Single Tariff

These options are described following in (a), (b) and (c) respectively.

(a) Single Bill/Multiple Tariff

The single bill/multiple tariff bill is prepared by the Bill Rendering Company but reflects all rates and charges for each connecting company's part of the service based on each company's access tariff.

The Bill Rendering Company will:

-determine and include all recurring and nonrecurring rates and charges for each involved Telephone Company;

-identify each involved Telephone Company's rates and charges separately on the bill;

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(1) Single Bill Option (Cont'd)(a) Single Bill/Multiple Tariff (Cont'd)

-forward the bill to the customer and provide a copy of the bill or other substantiation of the charges to the connecting Telephone Companies; and

-advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service, or, as a single payment made to the Bill Rendering Company. If payments are to be sent directly to the Bill Rendering Company, the non-Bill Rendering Company(s) will provide the customer with written authorization for the payment arrangement.

(b) Single Bill/Pass-Through Billing

The single bill/pass-through bill is compiled by the Bill Rendering Company. Each Telephone Company will prepare a bill for its portion of the access service and forward it to the Bill Rendering Company. Normally, these connecting telephone company bills are forwarded to the Bill Rendering Company without usage to eliminate possible delays.

Each non-Bill Rendering Company will:

-prepare its own bill;

-determine its rates and charges Channel Mileage as set forth in (3) following;

-determine and include all applicable recurring and nonrecurring rates and charges of its access tariff; and

2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(1) Single Bill Option (Cont'd)(b) Single Bill/Pass-Through Billing (Cont'd.)

-forward the bill to the Bill Rendering Company for the meet point access service.

The Bill Rendering Company will:

-apply usage data, when needed, to the bills and calculate the charges;

-combine all the bills of the involved Telephone Companies providing the meet point access service;

-forward the bill to the customer; and

-advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Bill Rendering Company. If payments are to be sent directly to the Bill Rendering Company, the non-Bill Rendering Company(s) will provide the customer with written authorization for the payment arrangement.

c) The single bill/single tariff bill provides a meet point bill that is billed completely at the Bill Rendering Company's tariff rates and regulations.

The Bill Rendering Company will:

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

-forward the bill to the customer.

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(2) Multiple Bill Option

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

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

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(3) Determination of Meet Point Billed Local Transport and Channel Mileage Charges

Each Telephone Company's portion of the Channel mileage will be developed as follows:

- (a) Determine the appropriate Channel Mileage by computing the number of airline miles between the Telephone Company premises (serving wire centers for Special Access) using the V&H method set forth respectively and 7.2.5 following.
- (b) Determine the billing percentage (BP), as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, which represents the portion of the service provided by each Telephone Company.
- (c) Reserved for Future Use
- (d) Reserved for Future Use
- (e) Reserved for Future Use
- (f) For Special Access, multiply the number of airline miles, as set forth in (a) preceding, times the BP for each Telephone Company, as set forth in (b) preceding, times the Channel Mileage Facility rate and add the Channel Mileage Termination rate.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(3) Determination of Meet Point Billed Local Transport and Channel Mileage Charges (Cont'd)

The Special Access Channel Mileage Termination rate and nonrecurring charges are applied as set forth in 7.2.1(B)(2) and 7.2.2(C) following. (Note: The BP is not applied to either the Channel Mileage Termination Recurring Rate or any Nonrecurring Charge.)

(g) 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 (c) through (f) preceding. Additionally, when a segment of the Channel Mileage Facility is measured to the intermediate office(s), Channel Mileage Termination rates are also applied at the intermediate Telephone Company(s) office(s).

(h) Reserved for Future Use

(i) Reserved for Future Use

(j) Reserved for Future Use

(k) Reserved for Future Use

(l) Reserved for Future Use

2.5 Connections2.5.1 General

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions

Certain terms used herein are defined as follows:

800 Data Base Access Service

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

800 Series

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

Access Code

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

Access Minutes

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Access Tandem

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

Add/Drop Multiplexing

The term "Add/Drop Multiplexing" denotes a multiplexing function offered in connection with SONET that allows lower level signals to be added or dropped from a high speed optical carrier channel in a wire center. The connection to the add/drop multiplexer is via a channel to a Central Office Port at a specific digital speed (i.e., DS3, DS1, etc.).

Advanced Intelligent Network (AIN)

The term "Advanced Intelligent Network (AIN)" denotes a telecommunications network architecture that uses databases to facilitate call processing, call routing, and network management, allowing carriers to change the routing of both inbound and outbound calls from moment to moment.

Alternate Tandem Switching Provider (ATSP)

The term "Alternate Tandem Switching Provider (ATSP)" denotes any interested third party opting to receive CIC and OZZ Signaling Information from the Telephone Company equal access end office(s) so that this third party can offer tandem switching functions.

Asymmetrical Digital Subscriber Line (ADSL)

The term "Asymmetrical Digital Subscriber Line" denotes an access technology that allows voice and high-speed data to be sent simultaneously over local exchange service facilities to provide high bandwidth services over the existing local distribution network.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)ADSL Network Access Link

The term "ADSL Network Access Link" denotes a path of connectivity for Corporate/Internet Service Provider hosts to connect to the Telephone Company's ADSL core network. Connectivity is performed at a DS1 level.

Answer/Disconnect Supervision

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

Attenuation Distortion

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

Authorized Billing Agent

The term "Authorized Billing Agent" denotes the third party hired by a telecommunications provider to perform billing and collection services for the telecommunications provider.

Balance (100 Type) Test Line

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

Bit

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

Billing Name and Address

The term "Billing Name and Address" denotes the name and address provided to the telephone company by each of its customers to which the Telephone company directs bills for its services.

Business Data Services (BDS)

The dedicated point-to-point transmission of data at certain guaranteed speeds and service levels using high-capacity connections.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Business Day

The term "Business Day" denotes the period during the day that a company is open for business. Generally, in the business community, this is 8:00 or 9:00 a.m. to 5:00 or 6:00 p.m., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for the Telephone Company contact it at the address shown below.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service minutes the customer expects to be handled in an end office switch during any hour between 8:00 a.m. and 11:00 p.m. for the Feature Group Service ordered. This customer specified BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group Service ordered.

Cable Space

The term "Cable Space" denotes any passage or opening in, on, under, over or through the serving wire center cable support structure (e.g., electrical metallic tubing, cable vault or alternate splicing chamber, riser support structure, cable runway, etc.) required to bring fiber optic cable to a multiplexing node under Expanded Interconnection.

Call

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

Carrier Identification Code (CIC)

The term "Carrier Identification Code (CIC)" denotes the caller's interexchange carrier to which the traffic should be directed.

Carrier or Common Carrier

See Interexchange Carrier.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)CCS

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

Central Office

See End Office

Central Office Maintenance Technician

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

Central Office Prefix

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

Channel(s)

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Channel Service Unit

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

Channelize

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

Clear Channel Capability

The term "Clear Channel Capability" denotes the ability to transport twenty-four 64 kbps over a DS1 Mbps High Capacity service via a B8ZS line code format.

C-Message Noise

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

C-Notched Noise

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

Coin Station

See Pay Telephone.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Collect Call

The term "Collect Call" denotes a call for which the calling party requests the interexchange carrier to bill the call to the called party's line number.

Collocation Space

The term "Collocation Space" describes the area in a Telephone Company serving wire center set aside for the exclusive use of an Interconnector purchasing Expanded Interconnection. This space may be enclosed by a wall or cage. Only multiplexing or transmission equipment shall be placed in this space. See Multiplexing Node.

Committed Information Rate

The term "Committed Information Rate" denotes the transmission speed specified by the customer for the Frame Relay Access Service network to transfer data between two ports.

Common Line

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

Common Channel Signaling

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Communications System

The term "Communications System" denotes channels and other facilities that support communications between terminal equipment provided by persons other than the Telephone Company.

Competitive Service Area

The term "Competitive Service Area" denotes the geographic unit of a county-equivalent in the U.S. Virgin Islands that has passed a competitive market test specified by the FCC. The qualifying Competitive Service Areas of the U.S. Virgin Islands are St. Thomas and St. Croix, and the offshore islands included in their respective communities of interest.

Competitive Services

All packet-based business data services; circuit-based Business Data Services above the DS3 bandwidth level; transport services which includes interoffice facilities, channel terminations between the serving wire center and point of presence, and all subelements established for the use of these transport facilities; DS1 & DS3 End User Channel Terminations, and other Special Access Services, in any Competitive Service Area; DS1 & DS3 End User Channel Terminations, and other Special Access Services.

Competitive Services also include any and all Special Access and Business Data Services provided in Competitive Service Areas.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Conduit Space

The term "Conduit Space" denotes any reinforced passage or opening in, on, under, over or through the ground between the feeder route conduit system (interconnection point, e.g., a manhole) and cable vault location capable of containing communications facilities, and includes: cable entrance facilities; main conduit; ducts; inner ducts; sub-duct; gas traps; underground dips such as short sections of conduit under roadway, driveways, parking lots and similar conduit installations; required to bring the Interconnector provided fiber optic cable into the Telephone Company serving wire center under Expanded Interconnection.

Cross-connect

The term "Cross-connect" denotes the connection between the Interconnector's multiplexing node and other tariffed access services of the Telephone Company.

Customer(s)

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

Customer Node

The term "Customer Node" denotes the equipment located at a customer designated premises that terminates a high speed optical channel.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Customer Designated Premises

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

Customer Message

The term "Customer Message" as used herein for Feature Group A Switched Access Service denotes a completed call over an interstate Feature Group A Switched Access Service. A completed call includes both completed calls originated to and terminated from a Feature Group A Switched Access Service. A Customer Message begins in the originating direction when the off-hook supervision provided by the premise of the ordering customer is received by Telephone Company recording equipment. A Customer Message begins in the terminating direction when answer supervision is received by Telephone Company recording equipment indicating the called party has answered. A Customer Message ends in the originating direction when disconnect supervision is received by Telephone Company recording equipment from the premise of the ordering customer. A Customer Message ends in the terminating direction when disconnect supervision is received by Telephone Company recording equipment from either the premise of the ordering customer or the called party.

The term "Customer Message" as used herein for Feature Group C and D Switched Access Service denotes 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 SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Customer of Record

The term "Customer of Record" denotes the person who is ultimately responsible for all customer obligations including the payment for services, set forth in this tariff.

Data Transmission (107 Type) Test Line

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

Decibel

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

Decibel Reference Noise C-Message Weighting

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

Decibel Reference Noise C-Message Referenced to 0

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Detail Billing

The term "Detail Billing" denotes the listing of all charges for each message and/or rate element on a customer's bill prepared by the Telephone Company.

Digital Switched 56 Service

The term "Digital Switched 56 Service" denotes a switched access option available with Feature Group D Access, that provides for data transmission speeds up to 56 kilobits per second.

Directory Assistance (Interstate)

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

Direct-Trunked Transport

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

Dual Tone Multifrequency Address Signaling

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Echo Control

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

Echo Path Loss

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

Echo Return Loss

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

Effective 2-Wire

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

Effective 4-Wire

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)End Office

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

End User

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

Enhanced Service

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

Entrance Facility

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Entry Switch

See First Point of Switching.

Envelope Delay Distortion

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

Equal Level Echo Path Loss

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

Exchange

The term "Exchange" denotes a unit generally smaller than a local access and transport area (LATA), established by the Telephone Company for the provision of communications service in a specified area which usually embraces a city, town or village and its environs. An Exchange consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. The exchange includes any Extended Area Service area that is an enlargement of a Telephone Company's exchange area to include nearby exchanges. One or more designated exchanges comprise a given LATA.

Exit Message

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Expanded Interconnection Service

The term "Expanded Interconnection Service" denotes the provision of space in Telephone Company manholes, conduits, cable vault, risers, cable runways, and serving wire centers to an interconnector for the express purpose of providing a fiber optic or microwave (if feasible) connection within the Telephone Company serving wire center between Telephone Company provided Access Services and Interconnector provided facilities and equipment.

Expanded Interconnection Service Interconnection Point

The term "Expanded Interconnection Service Interconnection Point" denotes the point at which an Interconnector's facilities enter the Telephone Company's facilities. For underground conduit this would be the manhole nearest the office. For microwave facilities (if feasible) this would be the point at which an antenna would be mounted along with the associated waveguide equipment. For all other facilities to serving wire centers, this shall be a point immediately adjacent to the serving wire center determined by the Telephone Company.

Expected Measured Loss

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

Extended Area Service

See Exchange.

Extended PVC

The term "Extended PVC" denotes the interconnection of a port on a Telephone Company's frame relay network with a port on another interconnected telephone company's frame relay network.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Field Identifier

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

First Point of Switching

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

Floor Space

The term "Floor Space" denotes an area in a Telephone Company serving wire center set aside for the exclusive use of an Interconnector purchasing Expanded Interconnection. See "Multiplexing Node."

Frame

The term "Frame" denotes a group of data bits in a specific format, which enables network equipment to recognize the meaning and purpose of the specific bits.

Frame Relay Access Connection

The Term "Frame Relay Access Connection" denotes the physical facility, including the associated port, between the end user's data terminal equipment and the Telephone Company's frame relay switch.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Frame Relay Access Service

The term "Frame Relay Access Service" denotes a medium-speed, connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks or other compatible customer premises equipment for the purpose of connecting to an interstate frame relay network.

Frame Relay End User Port

The term "Frame Relay End User Port" denotes the physical location in the Telephone Company switching office where the Special Access facility of the customer connects to the Frame Relay Access Service network. The Port determining how a frame relay switch sends and receives data from a frame relay end user customer's LAN or other compatible CPE devices.

Frame Relay Inter-network Connection

The term "Frame Relay Inter-network Connection" denotes the physical facility, including the associated port, between the access customer's frame relay network and the Telephone Company's frame relay switch.

Frame Relay Inter-network Customer Port

The term "Frame Relay Inter-network Customer Port" denotes the physical location in the Telephone Company switching office where the access customer's Special Access facility connects to the Telephone Company's Frame Relay Access Service network. The Port determines how a frame relay switch sends and receives data from a frame relay access customer's network.

Frequency Shift

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered grandfathered under Title 47 of the Code of Federal Regulations.

Host Central Office

The term "Host Central Office" denotes an electronic local Telephone Company End Office where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. Additionally, this type of End Office contains the central call processing functions which service itself and its Remote Switching Modules/Systems.

Hub

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

Hunt Group Arrangement

The term "Hunt Group Arrangement" denotes the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed.

Immediately Available Funds

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Impedance Balance

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

Impulse Noise

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

Individual Case Basis

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

Initial Address Message

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

Inserted Connection Loss

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Installation and Repair Technician

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

Interconnector

The term "Interconnector" denotes any customer of the Telephone Company that purchases Expanded Interconnection Service (EIS) and provides fiber optic or microwave facilities through a Telephone Company interconnection point for connection to Interconnector owned or leased equipment located in the Telephone Company's Serving wire center.

Interconnector's Facilities

The term "Interconnector's Facilities" denotes the telecommunications fiber optic cables, equipment and microwave equipment owned or leased by the Interconnector, whether installed by the Telephone Company or the Interconnector, for the sole use of the Interconnector in connection with equipment installed within its multiplexing node.

Interexchange Carrier (IC) or Interexchange Common Carrier

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Intermediate Hub

The term "Intermediate Hub" denotes a wire center at which bridging or multiplexing functions are performed only for customers served by that wire center and wire centers that subtend the hub, as specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

Intermodulation Distortion

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

Interstate Communications

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

Interstate Telecommunications Service Provider

The term "Interstate Telecommunications Service Provider" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire to provide interstate or foreign communication by wire or radio, between two or more exchanges and includes Interexchange Carriers, Operator Service Providers, and any other provider of interstate telecommunications service.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Legal Holiday

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

Line Side Connection

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

Local Access and Transport Area (LATA)

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

Local Area Network

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

Local Number Portability (LNP)

The term "Local Number Portability (LNP)" denotes the ability of an end user of local exchange telecommunications service to retain an existing telephone number without impairment of quality, reliability, or convenience when switching from one local exchange telecommunications carrier to another.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Location Routing Number (LRN)

The term "Location Routing Number (LRN)" denotes a unique NPA-NXX-XXXX that serves as a routing number associated with a central office switch that has subscribers that have transferred their telephone numbers from one local exchange telecommunications carrier to another.

Local Tandem Switch

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

Loop Around Test Line

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

Loss Deviation

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

Manhole

The term "Manhole" denotes an underground enclosure where conduit(s) are terminated and which provides ready access to conduit system.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Major Fraction Thereof

The term "Major Fraction Thereof" denotes any period of time in excess of 1/2 of the stated amount of time. As an example, in considering a period of 24 hours, a major fraction thereof would be any period of time in excess of 12 hours exactly.

Media Stimulated Mass Calling Events

The term "Media Stimulated Mass Calling Events" denotes the use of Switched Access Service for calls to 800, 900, etc. telephone numbers in response to television and radio advertising for which a substantial call volume is anticipated during a short period of time. Media stimulated mass calling is highly peaked and often used in conjunction with call counting services for public opinion polls, marketing surveys, etc.

Message

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

Milliwatt (102 Type) Test Line

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

Multifrequency (MF) Address Signaling

The term "Multifrequency (MF) Address Signaling" denotes a signaling method in which a combination of two out of six voiceband frequencies are used to represent a digit or a control signal.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Multiplexing Node

The term "Multiplexing Node" denotes the area in a Telephone Company serving wire center set aside for the exclusive use of an Interconnector purchasing Physical Collocation Expanded Interconnection Service. This space may be enclosed by a wall or cage. The sole purpose of this multiplexing node is to allow the Interconnector to install, maintain, and operate basic multiplexing or transmission equipment owned or leased by the Interconnector. The Telephone Company shall permit the Interconnector to connect fiber optic or microwave (if feasible) facilities to such Interconnector owned equipment within the multiplexing node. The size and dimensions of the multiplexing node shall be designated by the Telephone Company, as conditions permit. A good faith effort shall be made to accommodate specific requirements of the Interconnector.

N-1 Carrier

The term "N-1 Carrier" denotes the telecommunications carrier, prior to the terminating carrier, responsible for querying an LNP database to determine the routing of a call for a number portable NXX code.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Network Control Signaling

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

Noncompetitive Service Area

The term "Noncompetitive Service Area" denotes the geographic unit of a county-equivalent in the U.S. Virgin Islands that has not passed a competitive market test specified by the FCC. The qualifying Noncompetitive Service Area of the U.S. Virgin Islands is St. John, and the offshore islands included in its community of interest.

Non-Primary Residential Line

The term "Non-Primary Residential Line" denotes any residential subscriber line that is in addition to a Primary Residential Line at the same service location. The Non-Primary rate will be assessed on all Non-Primary Residential Lines.

Nonsynchronous Test Line

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

ACCESS SERVICE

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

North American Numbering Plan

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

Off-hook

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)On-hook

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

Open Circuit Test Line

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

Optical Carrier Channel

The term "Optical Carrier Channel" denotes the high speed optical communications path for transporting information utilizing a Synchronous Optical Channel platform. The channel is provided at transmission rates of 155.52 Mbps (OC3) and 622.08 Mbps (OC12).

Optical Carrier Rate (OC-N)

The term "Optical Carrier Rate" denotes the line rate being transmitted on an optical carrier channel. A SONET transmission rate is equivalent to "N" times the OC1 line rate of 51.84 Mbps.

Optical Carrier Rate Concatenated

The term "Optical Carrier Rate Concatenated" denotes the transmission of a combined signal formed by linking together multiple individual signals.

Optical Line Termination

The term "Optical Line Termination" denotes the network interface on the customer designated premises equipment that provides for an optical handoff.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Originating Direction

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

OZZ Digits

The term "OZZ Digits" denotes the domestic call type (e.g., 1+), and thus the specific trunk group onto which a particular call should be routed.

Pay Telephone

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

Payphone Service Provider

The term "Payphone Service Provider" denotes an entity that provides pay telephone service, which is the provision of public, semi-public or inmate pay telephone service.

Permanent Virtual Connection (PVC)

The term "PVC" denotes a software defined communications path between two port connections within the Frame Relay Access Service network.

Person

The term "Person" denotes any individual, corporation, firm, partnership, association, joint venture, trust, governmental entity or other entity or party and their officers, agents or employees.

Phase Jitter

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Physical Collocation

The term "Physical Collocation" denotes the provision of an area in a Telephone Company serving wire center that is dedicated to the use of an Interconnector. Physical Collocation allows the Interconnector to install and maintain its own transmission facilities (fiber optic or microwave) and multiplexing equipment. Connection to other services of the Telephone Company is made through a cross-connect.

Point _____ of
Termination

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

POTSSplitter

The term "POTS Splitter" denotes a passive band filter that divides the frequency transmitted over a customer's local exchange facility.

Premises

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

Primary Residential Line

The term "Primary Residential Line" denotes a residential subscriber line associated with a unique service location, which constitutes any, or all, of the following: the only subscriber line and the first installed subscriber line. The Primary rate is assessed on Primary Residential Lines.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Query

The term "Query" denotes the inquiry to a data base to obtain information, processing instructions or service data.

Rate Zone

See Density Pricing Zone.

Release Message

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

Remote Switching Modules/Systems

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

Return Loss

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

Registered Equipment

The term "Registered Equipment" denotes customers premises equipment which complies with and has been approved in accordance with the Registration Provisions of Part 68 of the FCC's Rules and Regulations.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Service Access Code

The term "Service Access Code" denotes a 3 digit code in the NPA format which is used as the first three digits of a 10 digit address assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. Examples of Service Access Codes include the 500, 700 and 900 codes.

Service Switching Point (SSP)

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

Serving Wire Center

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

Seven Digit Manual Test Line

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

ACCESS SERVICE

2. GENERAL REGULATIONS (Cont'd)

2.6 Definitions (Cont'd)

Shortage of Facilities or Equipment

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

Short Circuit Test Line

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

Signal-to-C-Notched Noise Ratio

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

Signaling Point (SP)

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

Signaling Point of Interface (SPOI)

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

Signaling Return Loss

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Signaling System 7 (SS7)

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

Signal Transfer Point (STP)

The term "Signal Transfer Point (STP)" denotes a packet switch that provides access to the Telephone Company's SS7 network and performs SS7 message signal routing and screening.

Signal Transfer Point (STP) Port

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

Singing Return Loss

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

Special Order

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

Standard PVC

The term "Standard PVC" denotes the connection of ports within the same Telephone Company frame relay network.

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Study Area

The term "Study Area" denotes a geographic area within a state or territory in which a Telephone Company operates. This geographic area normally does not cross state or territorial boundaries.

Subtending End Office of an Access Tandem

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

Super Intermediate Hub

The term "Super Intermediate Hub" denotes a wire center at which bridging or multiplexing functions are performed for customers served by all wire centers in the LATA. A Super Intermediate Hub can be restricted to one or more designated NPAs within a LATA and/or to wire centers that are owned by the same telephone company as the hub. Super Intermediate Hubs and the wire centers they serve are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. No. 4.

Synchronous Optical Network (SONET)

The term "SONET" denotes a North American Standard for high speed synchronous optical channels having minimum transmission rates of 51.84 Mbps. The standard SONET optical carrier rate of 51.84 Mbps is called OC1; the equivalent electrical signal rate is called STS-1. SONET standardizes higher transmission bit rates, "OCN", as exact multiples of OC1 (N X 51.84 Mbps). For example, OC3 equals 3 X 51.84 Mbps.

Synchronous Test Line

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Synchronous Transport Signal
(STS)

The term "Synchronous Transport Signal" denotes a 51.84 Mbps electrical signal used within the SONET optical carrier network. The signal consists of the information content and the overhead used by SONET. The overhead is used for controlling, framing, and maintaining the STS signal so it can be directly connected to other SONET carrier channels. STS signals are in exact multiples of 51.84 Mbps. (STS-1 is 51.84 Mbps, STS-3 is 155.52 Mbps, etc.).

Tandem-Switched Transport

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

Telecommunications Service Priority (TSP) System

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

Telecommunications Service Provider

The term "Telecommunications Service Provider" denotes interexchange carriers, operator service providers, and any other providers of telecommunications services.

Terminating Direction

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Terminus Hub

The term "Terminus Hub" denotes a wire center at which bridging or multiplexing functions are performed only for customers served directly by the same wire center.

Third Party Call

The term "Third Party Call" denotes a call for which the calling party requests the interexchange carrier to bill the call to the line number of the third party.

Throughput

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

Transmission Measuring (105 Type) Test Line/Responder

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

Transmission Path

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

ACCESS SERVICE2. GENERAL REGULATIONS (Cont'd)2.6 Definitions (Cont'd)Trunk

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

Trunk Group

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

Trunk Side Connection

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

Two-Wire to Four-Wire Conversion

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

Uniform Service Order Code

The term "Uniform Service Order Code" denotes a three or five character alphabetic or 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 & H Coordinates Method

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

ACCESS SERVICE**2. GENERAL REGULATIONS (Cont'd)****2.6 Definitions (Cont'd)****Virtual Collocation**

The term "Virtual Collocation" denotes the interconnection, at a specified Expanded Interconnection Service Interconnection Point, of Interconnector owned or leased fiber optic or microwave (where feasible) facilities to equipment specified by the Interconnector. The Telephone Company shall purchase, own, install and maintain this equipment to the same standards as its own equipment. The Interconnector shall fully compensate the Telephone Company for such purchase, ownership, installation and maintenance. Connection to other services of the Telephone Company is made through a Cross-connect.

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.

Wireless Switching Center (WSC)

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

Wire Center

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

ACCESS SERVICE

3. RESERVED FOR FUTURE USE

ACCESS SERVICE

4. RESERVED FOR FUTURE USE

ACCESS SERVICE5. ACCESS ORDERING5.1 General

This section sets forth the regulations and order related charges for services set forth in other sections of this tariff. Order related charges are in addition to other applicable charges for the services provided.

An Access Order is a customer's request to the Telephone Company to provide the customer with Switched Access, Special Access, or Access Related Service or to provide changes to existing services.

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

The customer shall provide to the Telephone Company the order information required in 5.2 following. In addition, the customer must provide:

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

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.1 General (Cont'd)5.1.1 Service Installation

The Telephone Company will provide the Access Service in accordance with the customer's requested service date, subject to the constraints established by the Telephone Company schedule of applicable service dates.

The Telephone Company shall make available to all customers, upon request, a schedule of applicable service intervals for Switched and Special Access Services. The schedule shall specify the applicable service interval for services and the quantities of services that can be provided by a requested service date. Any associated material will be provided upon request and within a reasonable period of time.

The Telephone Company will not accept orders for service dates which exceed the applicable service date by more than six months.

Access Services will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable additional labor charges.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.1 General (Cont'd)5.1.2 Expedited Orders

When placing an Access Order, a customer may request a service date that is prior to the applicable service date. Additionally, a customer may request an earlier service date on a pending Access Order; in such case, an access order modification as set forth in 5.4 following would be required. If the Telephone Company determines that the service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Charges will be billed at actual cost, not to exceed 10 percent over estimated charges. Such additional charges will be determined and billed to the customer as explained following.

To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours needed to meet the request of the customer and will bill the customer at the applicable additional labor charges.

To develop, determine and bill the customer the extraordinary costs that may be involved, Special Construction terms and conditions may be required. Authorization to incur the costs and to bill the customer will be in accordance with such tariffs.

When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in 16.3.1 following also applies.

ACCESS SERVICE**5. ACCESS ORDERING (Cont'd)****5.1 General (Cont'd)****5.1.3 Selection of Facilities for Access Orders**

The option to request a specific transmission path or channel is provided for High Capacity Special Access Facilities, or as provided for under Special Facilities Routing as set forth in Section 11 following.

When there are High Capacity facilities to a hub on order or in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Switched or Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request.

5.2 Ordering Requirements**5.2.1 Reserved for Future Use****5.2.2 Special Access Service**

When placing an order for Special Access Service the customer must specify:

- the customer designated premises or hubs, or ADM equipped wire centers involved
- type of service (e.g., Voice Grade, High Capacity, etc.)
- the channel interface(s)
- technical specification package
- options desired
- for multipoint services, the channel interface at each customer designated premises may, at the request of the customer, be different but all such interfaces shall be compatible.
- that the traffic consists of more than ten percent interstate traffic.

Where the Special Access Service is exempt from the Special Access Surcharge, as set forth in 7.3 following the customer shall furnish written certification to that effect as set forth in 7.3.3 following.

When ordering bridging and/or multiplexing, the Customer must specify the telephone company hub(s) from which they desire service. The Customer must specify only those hubs that provide the type of service ordered and interconnect with the wire center(s) from which the customer requires service. The Wire Center section of NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies hub types and multiplexing functions (e.g., Digital Data, High Capacity Multiplexing, Add/Drop Multiplexing) as well as hub levels (i.e., Hub, Terminus Hub, Intermediate Hub and Super-Intermediate Hub). Additionally, the Subtending section of Tariff F.C.C. No. 4 identifies wire centers and the Intermediate and/or Super-Intermediate Hubs with which they interconnect.

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ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.3 WATS or WATS-Type Services

Special Access Service may be ordered for connection with FGA, FGB, FGC or 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 FGA, FGB, 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)
- 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 7.2.1(B) following, must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

5.2.4 Mixed Use Facilities - Switched and Special Access

Mixed use is the provision of both Switched and Special Access Services over the same High Capacity or Synchronous Optical Channel facilities. Mixed use facilities to or from a ADM equipped wire center will be ordered and provided as Special Access Service. Where mixed use is employed, individual services utilizing these facilities must be ordered either as Switched Access Service from Vitelco Tariff F.C.C. No. 1 or Special Access Service as set forth in 7.2.7 following. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.5 Miscellaneous Services

Testing Service, Additional Labor, Telecommunications Service Priority and Special Facilities Routing shall be ordered with an Access Order or may subsequently be added to a pending order at any time up to and including the service date for the access service. When miscellaneous services are added to a pending order a service date change may be required. When a service date change is required, the service date change charge as set forth in 16.3.1(B) following will apply. When miscellaneous services are added to a pending order, charges for a design change as set forth in 16.3.1(D) following will apply when an engineering review is required. If both a service date change and an engineering review are required, both the Service Date Change Charge and the Design Change Charge will apply as set forth in 5.4.3(B) following.

The rates and charges for these services, as set forth in Section 16 will apply in addition to the ordering charges set forth in Section 16 and the rates and charges for the Access Service with which they are associated.

Additional Engineering is not an ordering option, but will be applied to an Access Order when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in 13.1 following. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.6 Frame Relay Access Service

When ordering Frame Relay Access Service, where available as noted in 16.1.6 following, a minimum of two port connections are required for data to be transported between customer designated premises.

When placing an order for Frame Relay Access Service the customer must specify:

- the customer designated premises;
- the type of channel;
- the channel interface(s);
- the technical specification package and options desired;
- whether a Frame Relay Access Connection (i.e., user-to-network interface) or a Frame Relay Inter-network Connection (i.e., network-to-network interface) is required;
- the port speed;
- the number of Permanent Virtual Connections (PVCs) required;
- the location of the ports for each PVC or for connection to DSL Access Services, the location of the port and the DSL Access Service Connection Point;
- the Committed Information Rates (CIRs) that will be associated with each PVC;
- that the traffic consists of more than ten percent interstate traffic.

The port connecting the Special Access facility to the Telephone Company frame relay switch must be ordered and provided at the same speed as the Special Access facility.

When connecting to the port of another customer, the ordering customer must obtain authorization from the other customer.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.4 Charges Associated with Access Ordering5.4.1 Access Order Charge

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

The Access Order Charge does not apply:

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

The Access Order Charge will be applied on a per order basis to each order received by the Telephone Company or copy of an order received by the Telephone Company pursuant to 5.4.1 and 5.4.2 preceding. The charge is in addition to other applicable charges as set forth in this and other sections of this tariff.

The Access Order Charge will be applied on a per order basis for any change, rearrangement or addition to the delivery of signaling information to the customer.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.4 Charges Associated with Access Ordering (Cont'd)5.4.2 Miscellaneous Service Order Charge

A Miscellaneous Service Order Charge, as set forth in 16.3.1(D) following, applies to any service, or combination of services, ordered simultaneously from Section 13 following for which a service order is not already pending.

The Miscellaneous Service Order Charge is an administrative charge designed to compensate for the expenses associated with service order issuance.

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

- Overtime Repair (as described in 13.2.2),
- Standby Repair (as described in 13.2.3),
- Testing and Maintenance with Other Telephone Companies other than when in conjunction with Acceptance Testing (as described in 13.2.4),
- Other Labor (as described in 13.2.5),
- Maintenance of Service (as described in 13.3.2).

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

- Additional Engineering (as described in 13.1),
- Overtime Installation (as described in 13.2.1),
- Standby Acceptance Testing (as described in 13.2.3),
- Testing and Maintenance with Other Telephone Companies when in conjunction with Acceptance Testing (as described in 13.2.4),
- Additional Cooperative Acceptance Testing [as described in 13.3.1(A)(1) and 13.3.1(B)(1)].

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.4 Charges Associated with Access Ordering (Cont'd)5.4.3 Access Order Change Charges

Access Order changes involve service date changes and design changes. The customer may request a change of its Access Order prior to the service date. The Telephone Company will make every effort to accommodate a requested change when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the change cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Order change, the Telephone Company will schedule a new service date as set forth in 5.1.2 preceding. All charges for Access Order change as set forth in 16.3.1 following will apply on a per occurrence basis.

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

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

(A) Service Date Change

The customer may request a change of service date on a pending Access Order prior to the service date. A change of service date is a change of the scheduled service date by the customer to either an earlier date or a later date which does not exceed thirty (30) calendar days from the original service date.

If the Telephone Company determines that the customer's request can be accommodated without delaying the service dates for orders of other customers, the service date will be changed and the Service Date Change Charge, as set forth in 16.3.1(B) following, will be applied to the order.

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

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.4 Charges Associated with Access Ordering (Cont'd)5.4.3 Access Order Change Charges (Cont'd)(A) Service Date Change (Cont'd)

If the requested service date exceeds thirty (30) calendar days following the original service date, and the Telephone Company determines that the customer's request can be accommodated, the Telephone Company will cancel the original order and apply the Cancellation Charges as set forth in 5.5.3 following. A new Access Order with a new service date will be issued. The Service Date Change Charge will not apply. The Access Order Charge will apply to the new order.

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

(B) Design Change

The customer may request a design change to the service ordered prior to the requested service date. A design change is any change to an Access Order which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what changes in the design, if any, are necessary to meet the changes requested by the customer. Design changes include without limitation: (1) the addition or deletion of optional features or functions or (2) a change in the type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer designated premises or Special Access Service channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if the change can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge as set forth in 16.3.1(C) following will apply in addition to a charge for additional engineering. If a change of service date is required, the Service Date Change Charge as set forth in 16.3.1(B) following will also apply. The Access Order Charge as specified in 16.3.1(A) following does not apply.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.5 Minimum Periods and Cancellations5.5.1 Minimum Periods

The minimum period for Special Access High Capacity Service is set forth in 7.2.4 following.

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

5.5.2 Development of Minimum Period Charges

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

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

(A) Reserved for Future Use

(B) For Special Access Service, the charge for a month or fraction thereof is equal to the applicable monthly rate for the appropriate channel type plus any optional features, nonrecurring and/or special construction charge(s) that may apply.

5.5.3 Cancellation of an Access Order

(A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within ten (10) days. If a customer or a customer's end user is unable to accept Access Service within thirty (30) calendar days after the original service date, the customer has the choice of the following options:

- The Access Order shall be cancelled and charges as set forth in (B) following will apply or,
- Billing for the service will commence.

In such instances, the cancellation date or the billing date, depending on which option is selected by the customer, shall be the 31st day beyond the original service date of the Access Order.

ACCESS SERVICE5. ACCESS ORDERING (Cont'd)5.5 Minimum Periods and Cancellations (Cont'd)5.5.3 Cancellation of an Access Order (Cont'd)

- (B) When a customer cancels an Access Order for the installation of service, a Cancellation Charge will apply as follows:
- (1) Installation of Special Access Service facilities is considered to have started when the Telephone Company incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred.
 - (2) Where the customer cancels an Access Order prior to the start of installation of access facilities, no charges shall apply.
 - (3) Where installation of access facilities has been started prior to the cancellation, the charges specified in (a) or (b) following, whichever is lower, shall apply.
 - (a) A charge equal to the costs incurred in such installation, less estimated net salvage. Such costs include the 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, rights-of-way and other associated costs;
 - (b) The charges for minimum Special Access Service ordered by the customer, as set forth in 5.5.2 preceding:
- (C) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.
- (D) If the Telephone Company misses a service date by more than 30 days and such delay is not requested or caused by the customer (excluding those circumstances where the date is missed due to acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

5.5.4 Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service channels will be treated as a partial cancellation and charges will be determined as set forth in 5.5.3(B) preceding.

ACCESS SERVICE

6. RESERVED FOR FUTURE USE

ACCESS SERVICE**7. SPECIAL ACCESS SERVICE****7.1 General**

Special Access Service provides a transmission path to connect customer designated premises, directly, or through a Telephone Company hub or hubs where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office, or to connect a customer designated premises to a Public Packet Data Network Service. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of those available transmission parameters and channel interfaces that they desire in order 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.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in 7.4 through 7.10 following.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

The customer also has the option of ordering Voice Grade and High Capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to Telephone Company hubs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.6 and 7.10 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.2.1(C) following.

For example, a customer may order a 3.152 Mbps High Capacity channel from a customer designated premises to a Telephone Company hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to Voice Grade channels or may be extended to other customer designated premises or hubs. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

7.1.2 Service Descriptions

For the purposes of ordering, there are five categories of Special Access Service. These are:

Service Designator Codes

Metallic	MT
Telegraph Grade	TG
Voice	VG
Digital Data	DA
High Capacity	HC

ACCESS SERVICE**7. SPECIAL ACCESS SERVICE (Cont'd)****7.1 General (Cont'd)****7.1.2 Service Descriptions (Cont'd)**

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 Section 15 following. Optional features and functions are described in this section. Channel interfaces are described in 15.2 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 advised and given the opportunity to change the order.

The channel descriptions provided in 7.4 through 7.10 following specify the characteristics of the basic channel and indicate 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, between hubs, or between a customer designated premises and a WATS Serving Office.

- (A) The technical specifications packages indicate the transmission parameters that are available with each package. This information is displayed in matrices set forth in 15.2 following.
- (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 15.2 following, in a combination format.
- (C) Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (F) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

- (D) The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in matrices set forth in 15.2 following with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (E) The Telephone Company will maintain services installed prior to April 1, 1985, at their existing transmission specifications provided such performance specifications do not exceed the standards listed in this provision. Those services exceeding the standards listed will be maintained at the performance levels specified in this tariff.
- (F) All services installed after April 1, 1985 will conform to the transmission specifications standards contained in this tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-TSY-000335
	PUB 41004, Table 4
Digital Data	TR-NPL-000341 and associated addendum
	PUB 62310
High Capacity	TR-INS-000342; PUB 62411

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations

There are three types of service configurations over which Special Access Services are provided: two-point service, multipoint service, and synchronous Optical Channel Service.

(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office (WSO).

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

A Special Access Surcharge as set forth in 7.3 following may apply.

ACCESS SERVICE

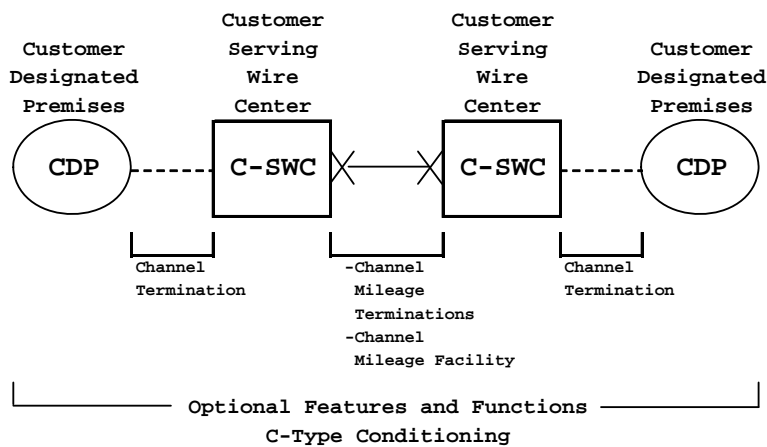
7. SPECIAL ACCESS SERVICE (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade service connecting two Customer Designated Premises (CDP). The service is provided with C-Type conditioning.



Applicable rate elements are:

- Channel Terminations (2 applicable, one (1) per CDP)
- Channel Mileage
2 Channel Mileage Terminations plus
1 section, Channel Mileage Facility per mile
- C-Type Conditioning Optional Feature

ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

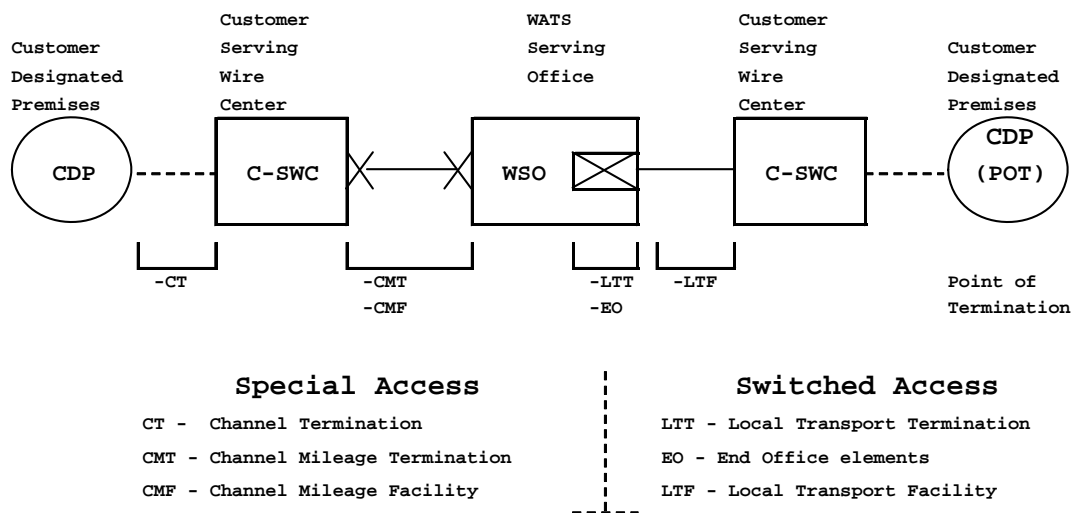
7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade service connecting a customer designated premises to a WATS serving office.

The Special Access surcharge as set forth in 7.3 following may apply.



Applicable rate elements for Special Access are:

- Channel Termination
- Channel Mileage
- 2 Channel Mileage Terminations plus
- 1 section, Channel Mileage Facility per mile

ACCESS SERVICE7. **SPECIAL ACCESS SERVICE** (Cont'd)7.1 **General** (Cont'd)7.1.3 **Service Configurations** (Cont'd)(B) **Multipoint Service**

Multipoint service connects three or more customer designated premises through one or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service as set forth in 7.4 through 7.10 following.

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. 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 7.1.2 preceding and 15.2 following, will be provided when technically feasible. 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). 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 between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

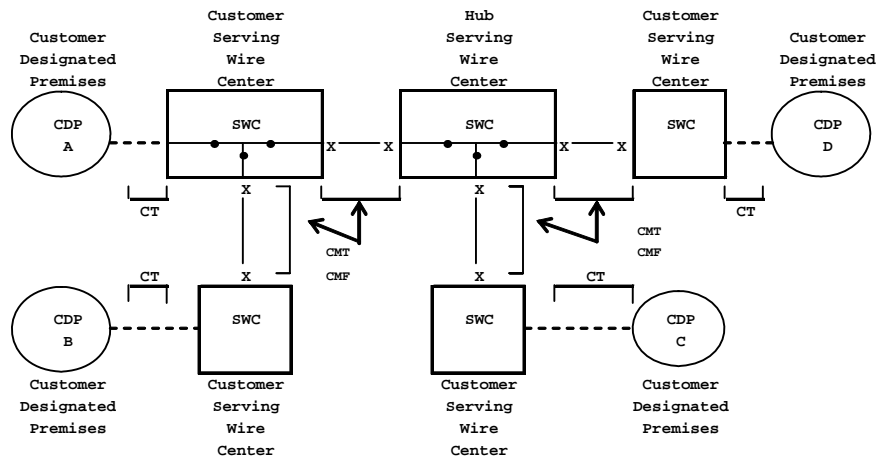
7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

The Special Access Surcharge as set forth in 7.3 following, may apply.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.



CT - Channel Termination

CMT - Channel Mileage Termination

CMF - Channel Mileage Facility

o - Bridging Port

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage
2 Channel Mileage Terminations per Channel
Mileage Facility section for a total of 8 plus
4 sections, Channel Mileage Facility per mile
- Bridging Optional Feature (6 applicable, i.e., at each bridge port)

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.1 General (Cont'd)7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. Where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis as set forth in Section 12 following. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)).

7.1.5 Special Facilities Routing

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

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the design 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 these facilities are materially changed.

ACCESS SERVICE**7. SPECIAL ACCESS SERVICE (Cont'd)****7.1 General** (Cont'd)**7.1.7 Acceptance Testing**

The Telephone Company will, at the customer's request, cooperatively perform the following test, at no additional charge at the time of installation:

- (A) For Voice Grade analog services, the 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 of service. For Voice Grade services, a balance (improved loss) test will be performed if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic and Telegraph) and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests 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, as described in 13.3.1(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

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

7.2 Rate Regulations

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

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories

There are three basic rate categories that apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and Functions (described in 7.2.1(C))

(A) Channel Termination

The Channel Termination rate category recovers 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 Channel Termination is a standard channel interface arrangement that defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability is provided as an optional feature as set forth in (C) following.

One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

For DS3 High Capacity Service, the Channel Termination rates are made up of the DS3 Capacity Interface rate and the DS3 Channel Installed rate. The Capacity Interface rate is dependent upon the capacity ordered (i.e., Capacity Interface of 1, 3, 6 or 12) and is applicable at each customer designated premises. The capacity ordered is the maximum number of DS3 services that can be terminated on a given service at the customer designated premises (e.g., a capacity of 3 can terminate 1, 2, or 3 DS3 services). One DS3 channel installed rate applies per customer designated premises at which the channel is terminated for each DS3 channel that is ordered. These charges will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Channel Mileage

The Channel Mileage rate category recovers the costs associated with 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. Channel Mileage rates are comprised of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the per mile cost for the transmission path between the Telephone Company serving wire centers or hub(s).

(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). The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and 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. If the Channel Mileage is between the serving wire center for a customer designated premises and a WATS Serving Office, the Channel Mileage Termination rate will apply at both the serving wire center associated with the customer designated premises and the WATS Serving Office.

When the Channel Mileage Facility is zero (i.e., at collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions

The Optional Features and Functions rate category recovers the costs associated with optional features and functions that may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics that may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

Descriptions for each of the available Optional Features and Functions are set forth in 7.4 through 7.10 following.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions (Cont'd)

A hub is a Telephone Company designated serving wire center where bridging or multiplexing functions are performed. Bridging functions are performed to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available.

7.2.2 Types of Rates and Charges

There are two types of rates and charges. These are monthly rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are 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 thirty (30) days.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. These charges are in addition to the Access Order Charge as specified in 16.3.1(A) following.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set for each channel type as a nonrecurring charge for the Channel Termination.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(2) Installation of Optional Features and Functions

When optional features and functions are installed coincident with the initial installation of service, no separate nonrecurring charge is applicable. When optional features and functions are installed or changed subsequent to the installation of service, an Access Order Charge as specified in 16.3.1(A) following will apply.

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services that are only administrative in nature, as set forth following, or that involve an actual physical change to the service. Changes to pending orders are set forth in 5.4 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.3 following.

Changes in the type of Service or Channel Termination that require a change of the minimum period will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility does not result in change in facilities or arrangements as set forth in 2.1.2(A) preceding, the change will be treated as an administrative change.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(3) Service Rearrangements (Cont'd)

Administrative changes will be made without charge(s) to the customer. Administrative changes include:

- 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.

All other service rearrangements will be charged as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the Channel Termination rate element will apply. The charge will apply only for a location that is being added. The charge will be in addition to an Access Order Charge as set forth in 16.3.1(A) following.
- If the change involves the addition of an optional feature or function, or if the change involves changing the type of signaling on a Voice Grade service, and for all other changes, the Access Order Charge as set forth in 16.3.1(A) following will apply.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.3 Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building. In either case, charges as described in (A) and (B) following are in addition to the Access Order Charge as specified in 16.3.1 following.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.2.4 Minimum Periods

The minimum service period for all services except DS3 High Capacity Service is one month and the full monthly rate will apply to the first month. Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period are as set forth in 2.4.2 preceding. The minimum service period for DS3 High Capacity Service is twelve months.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e.,

- the serving wire centers associated with two customer designated premises,
- a serving wire center associated with a customer designated premises and a Telephone Company hub,
- two Telephone Company hubs,
- or between the serving wire center associated with a customer designated premises and a WATS Serving Office.

The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, round up to the next whole mile before determining the mileage and applying the rates. When more than one telephone company is involved in the provision of service, billing will be accomplished as set forth in 2.4.7 preceding.

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, such as:

- customer designated premises serving wire center to hub
- hub to hub and/or
- hub to customer designated premises serving wire center.

When any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

A service configuration example for multipoint service is set forth in 7.1.3(B) preceding.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph, Voice, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

Types of available multiplexing include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from high capacity to voice frequency channels.

Point-to-point services may be provided on channels of these services to a hub. The transmission performance for the point-to-point service provided between customer designated premises will be the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a 6.312 Mbps High Capacity service is de-multiplexed to four DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 individual Voice Grade channels.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

7.2.7 Mixed Use

Mixed use refers to a rate 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). The nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination will be applied to the installation of a mixed-use facility.

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 SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.7 Mixed Use (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, applicable 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 of a Special Access High Capacity Service is activated for Switched Access Service, the Special Access Channel Termination, Channel Mileage, and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, 1/672nd for a DS3 service, etc.).

Switched Access Service rates and charges, as set forth in Company Tariff F.C.C. No.1, will apply for each channel that is used to provide a Switched Access Service. The Switched Access Service Entrance Facility, Direct Trunked Transport, and Multiplexing, if applicable, will be reduced by multiplying their respective rates by the ratio of derived Switched Access Service channels to the total number of Voice Grade channels that can be derived.

The following table shows the total voice grade equivalents for each of the services that may be used for Mixed Use:

High Capacity	DS3 Quantities	DS1 Quantities	Voice Grade Equivalents
DS1	n/a	1	24
DS3	1	28	672

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)****7.3 Surcharge for Special Access Service****7.3.1 General**

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

7.3.2 Application

- (A) 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 whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex CO-type switch.
- (B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
- (1) an open-end termination in a Telephone Company switch of 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
 - (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); 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.

ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

7.3 Surcharge for Special Access Service

7.3.3 Exemption of Special Access Service

- (A) Special Access Services which are terminated as set forth in 7.3.2(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 as follows:
 - at the time the Special Access Service is ordered or installed;
 - at such time as the service is re-terminated to a device which does not interconnect the service to local exchange facilities; or
 - at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.
- (B) The exemption certification shall 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 7.3.2(B) preceding, for each termination, and the date the exemption is effective.
- (C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or re-terminated such that the exemption is no longer applicable.
- (D) 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.

7.3.4 Rate Regulations

- (A) The surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as illustrated below:

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>	<u>Surcharge</u>	<u>Monthly Charge</u>
DS1	24 x	\$25.00	= \$600.00

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.3 Surcharge for Special Access Service7.3.4 Rate Regulations (Cont'd)

(A) (Cont'd)

The preceding example illustrates the maximum number of surcharges applicable to a DS1. If the customer claims exemption(s) as set forth in 7.3.3 preceding or is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

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.

(B) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.

(C) If a written certification is not received at the time the Special Access Service is ordered, the Surcharge will be applied. The exemption will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3 preceding, is received. If the exemption 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.

ACCESS SERVICE7. **SPECIAL ACCESS SERVICE** (Cont'd)7.4 **Metallic Service**7.4.1 **Basic Channel Description**

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 or hubs where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

Metallic Special Access services are typically used for applications such as alarm, pilot wire protective relaying, and DC tripping protective relaying. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

It is expressly declared that Metallic facilities are in continually decreasing supply and the Telephone Company is not obligated to continue to provide such facilities. Due to facility rearrangements, continued use of metallic facilities may be denied to existing customers with no obligation on the Telephone Company's part to pay customer equipment rearrangement costs. The Telephone Company will give the customer 90 days notification of this type of facility rearrangements. Metallic facilities are provided only where existing facilities and operating conditions permit.

Rates and charges for Special Access Metallic Service are as set forth in 16.1.1 and 16.2.2 following. Technical Reference publications for Special Access Metallic Service are listed in 7.1.2(F) preceding.

7.4.2 **Technical Specifications Packages and Network Channel Interfaces**

Technical Specifications Packages are set forth in 15.2.1(A) following. Compatible network channel interfaces are set forth in 15.2.2(C)(1) following.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.4 Metallic Service7.4.3 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- (2) Series Bridging of up to 26 customer designated premises.
The table set forth in Section 15 following shows the technical specifications packages with which the optional features and function for Metallic Special Access Services are available.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.5 Telegraph Grade Service7.5.1 Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Telegraph Grade Special Access services are typically used for applications such as teletypewriter, telegraph grade control/remote metering, telegraph grade channel, telegraph grade extension, and telegraph grade entrance facilities. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Telegraph Grade Service are as set forth in 16.1.2 and 16.2.3 following. Technical Reference publications for Special Access Telegraph Service are listed in 7.1.2(F) preceding.

7.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(B) following. Compatible network channel interfaces are set forth in 15.2.2(C)(2) following.

7.5.3 Optional Features and Functions

(A) Telegraph Bridging (two-wire and four-wire)

The table set forth in 15.2.1(B) following shows the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.6 Voice Grade Service7.6.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

Voice Grade Special Access services are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in 16.1.3 and 16.2.4 following. Technical Reference publications for Special Access Voice Grade Service are listed in 7.1.2(F) preceding.

7.6.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(C) following. Compatible network channel interfaces are set forth in 15.2.2(C)(3) following.

7.6.3 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)
- (3) Telephoto Bridging (two-wire and four-wire)
- (4) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports
- (5) Telemetry and Alarm Bridging

Split Band, Active Bridging Passive Bridging Summation, Active Bridging

The rates for these options are set forth in 16.2.4(B) following.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.6 Voice Grade Service (Cont'd)7.6.3 Optional Features and Functions (Cont'd)(B) Central Office Multiplexing

Voice to Telegraph Grade. An arrangement that converts a Voice Grade channel to Telegraph Grade channels using frequency division multiplexing.

The rate for this option is set forth in 16.2.4(B) following.

(C) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. The rates for these options are set forth in 16.2.4(B) following.

For two-point services, the parameters apply to each service as measured end-to-end. For multipoint services, the parameters apply as measured on each mid-link or as measured on each end link. C-Type conditioning and Data Capability may be combined on the same service.

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference(s) for Voice Grade service.

(2) Data Capability (D Conditioning)

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference(s) for Voice Grade service. The rate for this option is set forth in 16.2.4(B) following.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.6 Voice Grade Service (Cont'd)7.6.3 Optional Features and Functions (Cont'd)(C) Conditioning (Cont'd)(3) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are delineated in Technical Reference(s) for Voice Grade service. The rate for this option is set forth in 16.2.4(B) following.

(D) Improved Return Loss

(1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference(s) for Voice Grade service. The rate for this option is set forth in 16.2.4(B) following.

(2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference(s) for Voice Grade service. The rate for this option is set forth in 16.2.4(B) following.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.6 Voice Grade Service (Cont'd)7.6.3 Optional Features and Functions (Cont'd)(E) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in 16.2.4(B) following.

Network channel interfaces for Voice Grade Special Access service requiring signaling capability can be found in applicable Technical Reference publications listed in 7.1.2(F) preceding.

(F) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service. The rate for this option is set forth in 16.2.4(B) following.

(G) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of an access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option. The rate for this option is set forth in 16.2.4(B) following.

(H) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Voice Grade service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT. This option is provided on an Individual Case Basis as set forth in 16.2.4(B) following.

(I) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the four-wire Channel Termination rate as set forth in 16.2.4 following when an effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic four-wire Channel Termination rate.

ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(J) Improved Two-Wire Voice Transmission

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

(3) 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 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
401 to 1000	45 dBrnC0

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

7.7

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ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

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ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.9 Digital Data Service7.9.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs. The 64 kbps speed requires B8ZS Line Code Formatted Signal as described in Technical Reference TR-NPL-000054. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.

The customer may provide the Channel Service Unit (CSU) equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference(s) for Digital Data Service.

Rates and charges for Special Access Digital Data Service are as set forth in 16.1.4 and 16.2.5 following. Technical Reference publications for Special Access Digital Data Service are listed in 7.1.2(F) preceding.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.9 Digital Data Service (Cont'd)7.9.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(F) following. Compatible channel interfaces are set forth in 15.2.2(C)(4) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data channel:

<u>NCI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

7.9.3 Optional Features and Functions(A) Central Office Bridging Capability

The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. Bridging is not available on a 64.0 kbps channel.

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.9 Digital Data Service (Cont'd)7.9.3 Optional Features and Functions (Cont'd)(C) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data Service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT.

The table set forth in 15.2.1(F) following shows the technical specifications packages with which the optional features and functions are available.

(D) Public Packet Data Service Interface Arrangement

An arrangement that provides for the interface requirements that permit a Digital Data Service to interface with a Public Packet Data switch located in a Telephone Company premises. The interface is compatible with Frame Relay packet switching protocols. The interface is only available for 56.0 kbps and 64.0 kbps rates.

The table set forth in 15.2.1(F) following shows the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.9 Digital Data Service (Cont'd)7.9.3 Optional Features and Functions (Cont'd)(E) Secondary Channel Capability

The secondary channel option provides the customer with the capability to derive an independent, slower speed auxiliary (secondary) channel that operates in parallel with a primary Digital Data Channel without reducing the operating speed of the primary channel. It is available for all speeds of 2.4, 4.8, 9.6, 19.2 and 56 kbps channels. For 56 kbps channels, the option may be used only in two-point configurations which do not require the installation of loop repeater equipment. The technical parameters for the channels with a secondary channel option are set forth in Technical Publication - TR-62310. The speeds of the secondary channels are as follows:

133 bps with a primary 2.4 kbps channel
266 bps with a primary 4.8 kbps channel
533 bps with a primary 9.6 kbps channel
1,066 bps with a primary 19.2 kbps channel
2,666 bps with a primary 56 kbps channel

This optional feature is subject to availability.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.10 High Capacity Service7.10.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps* or 1.544, 3.152, 6.132, 44.736, or 274.176 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.

The customer may provide the Network Channel Terminating Equipment (NCTE) 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 NCTE or CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference(s) for High Capacity Service.

Rates and charges for Special Access High Capacity Service are as set forth in 16.1.5 and 16.2.6 following. Technical Reference publications for Special Access High Capacity service are listed in 7.1.2(F) preceding.

7.10.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(G) following. Compatible channel interfaces are set forth in 15.2.2(C)(5) following.

* Available only as a channel of a 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.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.10 High Capacity Service (Cont'd)7.10.2 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)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.10 High Capacity Service (Cont'd)7.10.3 Optional Features and Functions(A) 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. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(B) 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.

ACCESS SERVICE7. SPECIAL ACCESS SERVICE (Cont'd)7.10 High Capacity Service (Cont'd)7.10.3 Optional Features and Functions (Cont'd)(C) Central Office Multiplexing(1) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(2) 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.

(3) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

(4) DS0 to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing.

The table set forth in 15.2.1(G) following shows the technical specifications packages with which the optional features and functions are available.

(D) Reserved for Future Use

ACCESS SERVICE

7. SPECIAL ACCESS SERVICE (Cont'd)

7.11 Individual Case Filings

Certain services set forth in Special Access Service, Section 7 are provided on an Individual Case Basis. Rates and charges for Special Access Service provided on an Individual Case Basis are set forth in 16.2.7 following.

ACCESS SERVICE

8. RESERVED FOR FUTURE USE

ACCESS SERVICE

9. RESERVED FOR FUTURE USE

ACCESS SERVICE**10. SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES****10.1 General**

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

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

10.2 Emergency Conditions

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

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

ACCESS SERVICE**10. SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES (Cont'd)****10.3 Facility Availability**

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

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

10.4 Federal Government Regulations

This section applies to services provided to the Federal Government. This section does not apply to other customers that obtain services under this tariff to provide their services to the Federal Government.

10.5 Service Offerings to the Federal Government

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

10.5.1 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 a customer designated premises and an end user's premises. Services are conditioned as follows:

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

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 SERVICE10. SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES (Cont'd)10.5 Service Offerings to the Federal Government (Cont'd)10.5.1 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

\pm 1 dB between 1,000 Hz and 40,000 Hz

\pm 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 preceding. 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 a customer designated 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 SERVICE10. SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES (Cont'd)10.5 Service Offerings to the Federal Government (Cont'd)10.5.1 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 designated premises and an end user's premises. Services are conditioned as follows:

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

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communication between two customer designated premises. 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 SERVICE10. SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES (Cont'd)10.5 Service Offerings to the Federal Government (Cont'd)10.5.1 Type and Description (Cont'd)(B) Wideband Digital Special Access Service

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

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bps.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bps.

(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 micro-seconds at a rate of 50,000 bps.

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

10.5.2 Mileage Application

When used for rate application between the serving wire centers of two customer designated premises, mileage shall be determined by the V & H Coordinates Method as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 and administered as set forth in 7.2.5 preceding.

ACCESS SERVICE**10. SPECIAL FEDERAL GOVERNMENT ACCESS SERVICES (Cont'd)****10.6 Rates and Charges****10.6.1 General**

The rates and charges for special offerings to the Federal Government, such as those set forth in 10.5 preceding, are developed on an individual case basis and are set forth in 16.2.7 following.

10.6.2 Voice Grade Special Access

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

10.6.3 Move Charges

- (A) When a service without a termination charge associated with it, as set forth in 17.3.7 following, is moved to a different building, the nonrecurring charge applies; when a moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.
- (B) When service with a termination charge associated with it, as set forth in 16.2.7 following, is moved and is reinstalled at a new location, the customer may elect:
- to pay the unexpired portion of the termination charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new termination charge for such service at the new location, or
 - to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

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

ACCESS SERVICE**11. SPECIAL FACILITIES ROUTING OF ACCESS SERVICES****11.1 Description**

The services furnished under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the conditions provided in 11.1.1 through 11.1.4 following.

Avoidance and Diversity are available on Metallic, Telegraph Grade and Voice Grade Special Access Services as set forth respectively in 7.4, 7.5 and 7.6 preceding and Special Federal Government Access Services as set forth in 10.5 preceding.

Cable-Only Facilities are available for Voice Grade Special Access Services as set forth in 7.6 preceding and Special Federal Government Access Services as set forth in 10.5 preceding.

In order to maintain the confidentiality of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services are developed on an individual case basis. Such rates and charges for Special Facilities Routing of Access Services are as set forth in 16.2.7 following and are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

11.1.1 Diversity

Two or more circuits must be provided over not more than two different physical routes.

11.1.2 Avoidance

A circuit must be provided on a route which avoids specified geographical locations.

11.1.3 Diversity and Avoidance Combined

A service must be provided in accordance with 11.1.1 and 11.1.2 preceding, combined.

11.1.4 Cable-Only Facilities

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

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ACCESS SERVICE**12. SPECIALIZED SERVICE OR ARRANGEMENTS****12.1 General**

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- The requested service or arrangements are not offered under other sections of this tariff
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services
- The requested service or arrangements are provided within a LATA
- The requested service or arrangements are compatible with other Telephone Company services and facilities, and the Telephone Company's engineering and maintenance practices
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources

Rates and charges and additional regulations if applicable, for Specialized Service or Arrangements are provided on an individual case basis as set forth in 16.2.7 following.

ACCESS SERVICE**13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES**

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

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

13.1 Additional Engineering

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

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

- (A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 7.1.6 preceding.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.2 preceding.
- (C) A customer requested Design Change requires the expenditure of additional engineering time. Such additional engineering time is incurred by the Telephone Company for the engineering review as set forth in 5.4.3 preceding. The charge for additional engineering time relating to the engineering review, which is undertaken to determine if a design change is indeed required, will apply whether or not the customer authorizes the Telephone Company to proceed with the Design Change. In this case the Design Change charge, as set forth in 16.3.1(C) following, does not apply unless the customer authorizes the Telephone Company to proceed with the Design Change.

13.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges will apply before any additional labor is undertaken. When provisioning or restoring services subject to Telecommunications Service Priority, the Telephone Company will, when possible, notify the customer of the applicability of these Additional Labor charges.

ACCESS SERVICE**13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES**
(Cont'd)**13.2 Additional Labor** (Cont'd)**13.2.1 Overtime Installation**

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

13.2.2 Overtime Repair

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

13.2.3 Stand by

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

13.2.4 Testing and Maintenance with Other Telephone Companies

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

13.2.5 Other Labor

Other labor is: (a) that additional labor not included in 13.2.1 through 13.2.4 preceding and (b) labor incurred to accommodate a specific customer request that involves labor which is not covered by any other section of this tariff.

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.3 Miscellaneous Services

13.3.1 Reserved for Future Use

(A) Reserved for Future Use

ACCESS SERVICE**13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES**

(Cont'd)

13.3 Miscellaneous Services (Cont'd)**13.3.1 Testing Services (Cont'd)****(B) Special Access Service**

The Telephone Company will provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, for example, consist of the following:

- Attenuation Distortion (i.e., frequency response)
- Intermodulation Distortion (i.e., harmonic distortion)
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

(2) Additional Manual Testing

The Telephone Company will provide a technician at its premises and the Telephone Company or customer will provide a technician at the customer's designated premises with suitable test equipment to perform the requested tests.

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at a time mutually agreed upon.

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Reserved for Future Use

13.3.3 Reserved for Future Use

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.3 Reserved for Future

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.4 Reserved for Future Use

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.5 Regulations, Rates, and Charges

Regulations, Rates, and Charges for Additional Engineering, Additional Labor and Miscellaneous Services are the same as those set forth in Section 16.

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.6 Reserved for Future Use

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.7 Reserved for Future Use

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.8 Reserved for Future Use

ACCESS SERVICE

13. ADDITIONAL ENGINEERING, ADDITIONAL LABOR, AND MISCELLANEOUS SERVICES
(Cont'd)

13.9 Reserved for Future Use

ACCESS SERVICE

14. RESERVED FOR FUTURE USE

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS

15.2 describes Special Access Service Network Channel (NC) codes and Network Channel Interface (NCI) codes.

15.1 Reserved for Future Use

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service

This section explains and lists the codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct Trunked Transport. These codes provide a standardized means to relate the services being ordered to Special Access Service offerings contained in Section 7 preceding.

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 specifications 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.

On the following pages are examples which explain the specific characters of the codes and which reference matrices and charts used in developing the codes. Included in the matrices are Service Designator (SD) codes which are used to identify variations of service within service types (e.g., TG1 = Telegraph). The SD and NC codes are displayed as components of the matrices designated as Technical Specifications packages in (A) through (G) following. Through the use of these matrices, SD codes may be converted to NC codes for service ordering purposes.

A chart is also provided in 15.2.2(A) following which contains information necessary to develop NCI codes.

Comprehensive lists of allowed Network Channel (NC) and Network Channel Interface (NCI) codes are contained in Special Report SR-ISD-000307. However, not all services contained in this Special Report may be offered by the Telephone Company at this time.

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service (Cont'd)

Lastly, 15.2.2(C) following provides a list of compatible Network Channel Interfaces associated with a given service.

Example No. 1: If the customer wishes to order a 4-wire voice grade circuit with 600 Ohms impedance, capable of data transmission, and with improved return loss, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
LG-R	04DB2	04DA2-S

NC Code:

LG = Voice Grade Channel Service, VG6
-R = Improved Return Loss

NCI Code:

04 = Number of physical wires at CDP
DB = Data stream in VF frequency band at the customer designated
main terminal location
2 = 600 Ohms impedance

SECNCI (Secondary NCI Code):

04 = Number of physical wires at CDP
DA = Data stream in VG frequency at the customer designated
secondary terminal location
2 = 600 Ohms impedance
-S = Sealing current option for 4-wire transmission

In the above example the NCI (Network Channel Interface) code is the interface requested at the customer's POT (Point of Termination) and the SECNCI (Secondary Network Channel Interface) code represents the interface at the end office serving the End User.

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service (Cont'd)

Example No. 2: If the customer wishes to order a FX circuit to a station, with 600 Ohms impedance, loop start signaling, which is 4-wire at the CDP and 2-wire at the end-user, the customer might specify:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
LC--	04LO2	02LS2

NC Code:

LC = Voice Grade Channel Service, VG2
 -- = No Optional Features

NCI Code:

04 = Number of physical wires at CDP
 LO = Loop start, loop signaling - open end
 2 = 600 Ohms impedance

SECNCI (Secondary NCI Code):

02 = Number of physical wires at CDP
 LS = Loop start signaling - closed end
 2 = 600 Ohms impedance

Example No. 3: If the customer wishes to order a 1.544 Mbps Hi-cap facility with no channel options such as CO multiplexing, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
HC--	04DS9-15	04DS9-15

NC Code:

HC = High Capacity Channel Service, HC1
 -- = No Optional Features

NCI, SECNCI Code:

04 = Number of physical wires at CDP
 DS = Digital hierarchy interface
 9 = 100 Ohms impedance
 15 = 1.544 Mbps (DS1) format

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

The preceding three examples use information contained in Special Report SR-ISD-000307.

15.2.1 Network Channel (NC) Codes

In order to determine the NC code appropriate for the service to be ordered, the type of Special Access Service the customer wishes must be identified. This identification is accomplished by a Service Designator (SD) code. The broad categories of Service Designator codes (e.g., VG, MT, TG, etc.) are set forth in Section 7. preceding. Variations within service type (e.g., VG1, MTC, TG2, etc.) are described in the various Technical Publications cited in (A) through (G) following.

Having determined the specific service type to be ordered and its SD code, and having used the appropriate Technical Publication, the customer should match the SD code to the NC code using the following matrices. Once the NC code has been determined the Network Channel Interface (NCI) code may be developed using the information set forth in 15.2.2 following and the guidelines concerning specific parameters available for each service type as set forth in the specified Technical Publication.

(A) Technical Specifications Packages Metallic Service

	<u>Package</u>			
<u>SD Code</u>	<u>MTC*</u>	<u>MT1</u>	<u>MT2</u>	<u>MT3</u>
<u>NC Code</u>	<u>MQ</u>	<u>NT</u>	<u>NU</u>	<u>NV</u>
<u>Parameter</u>				
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

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

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(A) Technical Specifications Packages Metallic Service (Cont'd)

SD Code	<u>Package</u>			
	<u>MTC*</u>	<u>MT1</u>	<u>MT2</u>	<u>MT3</u>
NC Code	<u>MQ</u>	<u>NT</u>	<u>NU</u>	<u>NV</u>

Optional Features and Functions

Three Premises				
Bridging	X	X		X
Series Bridging	X		X	

The technical specifications are described in Technical Reference TR-NPL-000336.

(B) Technical Specifications Packages Telegraph Grade Service

SD Code	<u>Package</u>		
	<u>TGC*</u>	<u>TG1</u>	<u>TG2</u>
NC Code	<u>NQ</u>	<u>NW</u>	<u>NY</u>

Parameter

Telegraph Distortion	X	X	X
----------------------	---	---	---

Optional Features and Functions

Telegraph Bridging	X	X	X
--------------------	---	---	---

The technical specifications are described in Technical Reference TR-NPL-000336.

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

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(C) Technical Specifications Packages Voice Grade Service

	<u>Package VG-</u>														
SD Code	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>W</u>	
NC Code	<u>LQ</u>	<u>LB</u>	<u>LC</u>	<u>LD</u>	<u>LE</u>	<u>LF</u>	<u>LG</u>	<u>LH</u>	<u>LJ</u>	<u>LK</u>	<u>LN</u>	<u>LP</u>	<u>LR</u>	<u>SE</u>	

Parameter

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
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X						X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X		X	
Loss Deviation	X	X	X	X	X	X	X	X		X	X	X	X	X
Phase Hits, Gain														
Hits, and Dropouts	X													
Phase Jitter	X						X	X	X	X	X		X	
Signal-to-C														
Message Noise	X													
Signal-to-C														
Notch Noise	X						X	X	X	X	X	X	X	X

The technical specifications for these parameters (except for dropouts, phase hits, and gain hits) are described in Technical References TR-NPL-000334 and TR-NPL-000335. The technical specifications for dropouts, phase hits, and gain hits are described in Technical Reference PUB 41004, Table 4.

* The desired parameters are selected by the customer from the list of available parameters.

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(C) Technical Specifications Packages Voice Grade Service (Cont'd)

	<u>Package VG-</u>													
SD Code	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>W</u>
NC Code	<u>LQ</u>	<u>LB</u>	<u>LC</u>	<u>LD</u>	<u>LE</u>	<u>LF</u>	<u>LG</u>	<u>LH</u>	<u>LJ</u>	<u>LK</u>	<u>LN</u>	<u>LP</u>	<u>LR</u>	<u>SE</u>

Optional Features and Functions

Central Office

Bridging Capability	X	X			X	X				X	X	X		
Central Office Multiplexing	X					X								
Conditioning:														
. C-Type	X				X	X	X	X	X	X				
. Improved Attenuation Distortion	X				X	X	X	X	X	X				
. Improved Envelope Delay Distortion	X			X	X	X	X	X	X					
. Sealing Current	X					X								
. Data Capability	X					X	X						X	
. Telephoto Capability	X													X
Customer Specified Premises Receive Level	X		X	X				X	X	X				
Improved Return Loss for Effective Four-Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(C) Technical Specifications Packages Voice Grade Service (Cont'd)

	<u>Package VG-</u>													
SD Code	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>W</u>
NC Code	<u>LQ</u>	<u>LB</u>	<u>LC</u>	<u>LD</u>	<u>LE</u>	<u>LF</u>	<u>LG</u>	<u>LH</u>	<u>LJ</u>	<u>LK</u>	<u>LN</u>	<u>LP</u>	<u>LR</u>	<u>SE</u>

Optional Features and Functions

Improved Return Loss (Cont'd)

For Effective Two-Wire Transmission	X	X	X					X						
Improved Two-Wire Voice Transmission														X
PPSN Interface Arrangement	X								X					
Selective Signaling Arrangement	X	X		X	X				X	X	X			
Signaling Capability	X	X	X	X			X	X	X					
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X		X	X	X
Improved Termination	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(D) Reserved for Future Use

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(E) Reserved for Future Use

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

_____ (E) Reserved for Future Use

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(F) Technical Specifications Packages Digital Data Service

	<u>Package</u>					
SD Code	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>D6</u>
NC Code	<u>XA</u>	<u>XB</u>	<u>XG</u>	<u>XH</u>	<u>XE</u>	<u>YN</u>

Parameter

Error-Free Seconds	X	X		X		X
--------------------	---	---	--	---	--	---

Optional Features and Functions

Central Office Bridging Capability	X	X	X	X	X	X
------------------------------------	---	---	---	---	---	---

PPSN Interface Transfer Arrangement	X	X	X	X	X	X
-------------------------------------	---	---	---	---	---	---

Transfer Arrangement	X	X	X	X	X	X
----------------------	---	---	---	---	---	---

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(G) Technical Specifications Packages High Capacity Service

SD Code NC Code	Package					
	<u>HC0</u>	<u>HC1</u>	<u>HC1C</u>	<u>HC2</u>	<u>HC3</u>	<u>HC4</u>
	<u>HS</u>	<u>HC</u>	<u>HD</u>	<u>HE</u>	<u>HF</u>	<u>HG</u>
<u>Parameters</u>						
Error-Free Seconds		X				
<u>Optional Features 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 DS0		X				
DS0 to Subrate*	X					
Transfer Arrangement	X					
Clear Channel Capability		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.

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(G) Technical Specifications Packages High Capacity Service (Cont'd)

The electrical interface with the Telephone Company for Special Access Services, is defined by an interface code. There are interface codes for both the customer designated premises and the point of termination. Three examples of NCI codes are found in 15.2 preceding.

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and OptionsParameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
AH -		analog high capacity interface
-	B	60 kHz to 108 kHz (12 channels)
-	C	312 kHz to 552 kHz (60 channels)
-	D	564 kHz to 3084 kHz (600 channels)
CT -		Centrex Tie Trunk Termination
CS -		digital hierarchy interface at Digital Cross Connect System (DCS)
-	15	1.544 Mbps (DS1) ANSI Extended Superframe (ESF) Format and B8ZS Clear Channel Capability
-	15	1.544 Mbps (DS1) Superframe (SF) format
-	15B	1.544 Mbps (DS1) Superframe (SF) format and B8ZS Clear Channel Capability
-	15K	1.544 Mbps (DS1) Extended Superframe (ESF)
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 series RC combination (McCulloh format)
-	2	Telephone Company energized alarm channel

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
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 S1 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

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DU -		digital access interface
-	19	19.2 kbps
-	24	2.4 kbps
-	48	4.8 kbps
-	56	56.0 kbps
-	96	9.6 kbps
-	64	64.0 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
-	1KN	1.544 Mbps ANSI Extended Superframe (ESF) Format without line power
-	1SN	1.544 Mbps ANSI Extended Superframe (ESF) Format with B8ZS CCC and without line power
-	AN	1.544 Mbps free-framing format w/o line power (only avail. to U.S. Govt. agencies)
-	BN	1.544 Mbps Superframe (SF) Format w/o line power
-	DN	1.544 Mbps Superframe (SF) Format with B8ZS Clear Channel Capabiltiy without line power
DX -		duplex signaling interface at customer's point of termination
DY -		duplex signaling interface at customer's end user's point of termination

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
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
GS -		ground start loop signaling - closed end function by customer or customer's end user
IA -		E.I.A. (25 pin RS-232)
LA -		end user loop start loop signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR

ACCESS SERVICE15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)15.2 Special Access Service (Cont'd)15.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only
PG -		program transmission - no dc signaling
-	1	nominal frequency from 50 to 15000 Hz
-	3	nominal frequency from 200 to 3500 Hz
-	5	nominal frequency from 100 to 5000 Hz
-	8	nominal frequency from 50 to 8000 Hz
PR		protective relaying*
RV -	0	reverse battery signaling, one way operation, originate by customer
-	T	reverse battery signaling, one way operation, terminate unction 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

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
-	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
-	15	video plus one (or two) audio 15 kHz signal(s)

(B) 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

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces

The following tables show the Network Channel Interface codes (NCIs) which are compatible:

(1) Metallic

Compatible CIs

2DC8-1 2DC8-2
 2DC8-3 2DC8-3
 4DS8- 2DC8-1
 4DS8- 2DC8-2

(2) Telegraph Grade

Compatible CIs

2DB2-10 10IA8
 2TT2-2
 4TT2-2
 2DB2-43* 10IA8
 2TT2-2
 2TT2-6
 4TT2-2
 2TT2-2 2TT2-2
 2TT2-3 2TT2-2
 4TT2-2
 2TT2-6 2TT2-6
 4TT2-6

Compatible CIs

4DB2-10 10IA8
 2TT2-2
 4TT2-2
 4DB2-43* 10IA8
 2TT2-6
 4TT2-2
 4DS8- 10IA8
 2TT2-2
 2TT2-6
 4TT2-2
 4TT2-2
 4TT2-6 2TT2-6

* Supplemental Channel Assignment information required.

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade

<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	2LS	2GS
	4DS8		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E		2LS3	2LS2	2LA2
	4EA2-M				2LB2
	4SF2	2GO2	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2GO3	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2NO2	2DA2
	6EB2-E		2LS		2NO2
	6EB2-M		4GS		
	6EB3-E		4LS	2NO3	2NO2
	8EB2-E				2PR2
	8EB2-M	2L02	2LS2		
	8EC2		2LS3	2TF3	2TF2
	9DY2				
	9DY3	2L03	2LS2		
	9EA2		2LS3		
	9EA3				

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AB2	2AC2 4AB2 4AC2 4SF2				
4AB3	2AC2 4AC2 4SF2				
4AC2	2AC2 4AC2	4DS8-	2AC2	4DS8-	4DG2
			2DA2		4LR2
			2DY2		4LS2
			2GO2		4NO2
	4DA2	4DA2	2G03		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

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
			4AC2		8EB2-M
			4DA2		9DY2
			4DE2		9DY3
			4DX2		9EA2
			4DX3		9EA3
			4DY2		
			4EA2-E		
			4EA2-M		
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		

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		
4EA2-E	2DY2	4EA3-E	2DY2	4GO2	2GO2
	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		8EB2-M		4SF2
			9DY2		6GS2
4EA2-M	2DY2		9DY3		
	4DY2		9EA2		
	4EA2-M		9EA3	4GS	2GS
	4SF2				2LS
	6DY2				4GS
	6DY3				4LS
	6EB2-E				
	6EB2-M				
	8EB2-E				
	8EB2-M				

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	9DY2				
	9DY3				
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
		4RV2-0	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2GO3
	4SF2				2GS2
					2GS3
4LS	2GS	4SF2	2AC2		2LA2
	2LS		2DY2		2LB2
	4GS		2GS2		2LC2
	4LS		2GS3		2LO3
			2LA2		2LR2

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4LS2	2LA2		2LB2		
	2LB2		2LC2		
	2LC2				
	2LO2				
	2LO3				
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

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4TF2	2TF2 4TF2		4DY2 6DY2		6DY2 6DY3 6EA2-E 6EA2-M
6EA2-E	6EB2-E 6EB2-M 6LS2 8EB2-E 8EB2-M 9DY2 9DY3	6EA2-M	6DY2 6DY3 6EA2-M 6EB2-E 6EB2-M 6LS2 8EB2-E 8EB2-M 9DY2 9DY3	6EB3-E	2DY2 4DY2 4EA2-E 4EA2-M 4SF2 6DY2 6DY3 6EA2-E 6EA2-M 8EB2-E 8EB2-M
6EA2-M	2AC2 2DY2 2LA2 2LB2 2LC2 2LO3 2LS2 2LS3 2RV2-T 4AC2 4DY2 4EA2-E 4EA2-M 4LS2 4RV2-T 4SF2	6EB2-E 6EB2-M	2DY2 4DY2 4SF2 6DY2 6DY3 6EB2-E 6EB2-M 9DY2 9DY3	6EX2-A	2GS2 2GS3 2LS2 2LS3 4GS2 4LS2 4SF2 6GS2

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	4SF3		6DY2		6LS2
			6DY3		
			6EB2-M		
			9DY2		
			9DY3		
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

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	2LA2		9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
	4SF2				
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		

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

Compatible CIs

Compatible CIs

Compatible CIs

6EB2-M

8EB2-E

8EB2-M

9DY2

9DY3

9EA2

9EA3

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

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ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(4) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DS8-15+	4DU5-19	4DU5-19	6DU5-19	6DU5-19
	4DU5-19	4DU5-24	4DU5-24	6DU5-24	6DU5-24
	4DU5-24				
	4DU5-48				
	4DU5-56	4DU5-48	4DU5-48	6DU5-48	6DU5-48
	4DU5-96				
	6DU5-24	4DU5-96	4DU5-96	6DU5-56	6DU5-56
	6DU5-48				
	6DU5-96	4DU8-56	4DU5-56	6DU5-96	6DU5-96

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(5) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS0-63	4DS0-63 4DU8-A,B or C 6DU8-A,B or C	4DS8-15J	4DU8-A 6DU8-A
4DS6-27	4DS6-27 4DU8-A,B or C 6DU8-A,B or C	4DS8-15K	4DU8-B 4DU8-C 6DU8-B 6DU8-C
4DS6-44	4DS6-44 4DU8-A,B or C 6DU8-A,B or C	4DS8-31	4DS8-31 4DU8-A,B or C 6DU8-A,B or C
4DS8-15	4DS8-15+ 4DU8-B 6DU8-8	4DU8-A,B or C	4DU8-A,B or C

+ Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

ACCESS SERVICE

15. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

15.3 Reserved for Future Use

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES

Rates and charges in this section apply to two categories of competitive Special Access Services:

1. Special Access Services deemed competitive in all service areas; and
2. Special Access Services offered in Competitive Service Areas.

16.1 Rate and Charges for Special Access Services Deemed Competitive in All Service Areas

16.1.1 Metallic Service

Regulations concerning Metallic Service are set forth in Section 7 preceding.

	Monthly <u>Rate</u>
Channel Mileage	
(1) Channel Mileage Facility Per Mile	\$ 0.28
(2) Channel Mileage Termination Per Termination	\$17.08

16.1.2 Telegraph Grade Service

Regulations concerning Telegraph Grade Service are set forth in Section 7 preceding.

	Monthly <u>Rate</u>
Channel Mileage	
(1) Channel Mileage Facility Per Mile	\$ 0.28
(2) Channel Mileage Termination Per Termination	\$17.08

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.1 Rate and Charges for Special Access Services Deemed Competitive in All Service Areas (Cont'd)

16.1.3 Voice Grade Service

Regulations concerning Voice Grade Service are set forth in Section 7 preceding.

	<u>Monthly Rate</u>
Channel Mileage	
(1) Channel Mileage Facility Per Mile	\$ 0.11
(2) Channel Mileage Termination Per Termination	\$ 6.78

16.1.4 Digital Data Service – 56 .0 Kbps

Regulations concerning Voice Grade Service are set forth in Section 7 preceding.

	<u>Monthly Rate</u>
Channel Mileage	
(1) Channel Mileage Facility Per Mile	\$ 4.76
(2) Channel Mileage Termination Per Termination	\$47.76

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Virgin Islands Telephone Corporation
P. O. Box 6100, St. Thomas, U.S. Virgin Islands 00801

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.1 Rate and Charges for Special Access Services Deemed Competitive in All Service Areas (Cont'd)

16.1.5 High Capacity Service

Regulations concerning High Capacity Service are set forth in Section 7 preceding.

	<u>Monthly Rate</u>
Channel Mileage	
(1) Channel Mileage Facility Per Mile	
- 64 kbps*	\$1.52
- 1.544 Mbps	\$1.54
- 44.736 Mbps	\$149.65
(2) Channel Mileage Termination Per Termination	
- 64 kbps*	\$47.21
- 1.544 Mbps	\$93.94
- 44.736 Mbps	\$595.61

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.1 Rate and Charges for Special Access Services Deemed Competitive in All Service Areas (Cont'd)

16.1.6. Public Packet Data Network - Frame Relay Access Service

Regulations concerning Frame Relay Access Service are set forth in Section 18 following.

(A) Connections	<u>Monthly Rate</u>	<u>Nonrecurring Rate</u>
(1) Frame Relay Access Connection		
- 64 Kbps	\$280.00	\$300.00
- 1.544 Mbps	\$835.00	\$350.00
(2) End User Port		
- 64 Kbps	\$ 75.00	NA
- 1.544 Mbps	\$145.00	NA

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.1 Rate and Charges for Special Access Services Deemed Competitive in All Service Areas (Cont'd)

16.1.6. Public Packet Data Network - Frame Relay Access Service (Cont'd)

(A) Connections (Cont'd)

(3) Permanent Virtual Connections

<u>Standard CIR</u>	<u>Monthly Rate</u>
- 64 Kbps	\$ 8.00
- 128 Kbps	\$10.00
- 192 Kbps	\$16.00
- 256 Kbps	\$18.00
- 384 Kbps	\$26.00
- 512 Kbps	\$34.00
- 768 Kbps	\$45.00

Nonrecurring
Charge

(4) PVC Installation Charge	\$75.00
(5) PVC Rearrangement Charge	\$75.00

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix

St. Thomas and St. Croix, and their respective communities of interest, are the geographic units of a county-equivalent in the U.S. Virgin Islands that has passed a competitive market test specified by the FCC. All Special Access Services offered in these two service areas are deemed competitive and all applicable rates and charges are included in this section.

16.2.1 Surcharge for Special Access Service

The Surcharge for Special Access Service is applicable to all issuing carriers referencing Section 7 of this tariff.

	<u>Rate</u>	<u>Tariff Section Reference</u>
- Per Voice Grade Equivalent	\$25.00	7.3.1

16.2.2 Metallic Service

Regulations concerning Metallic Service are set forth in Section 7 preceding.

	<u>Monthly Rate*</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination per Termination	\$20.16	\$122.14
(B) Optional Features and Functions		
(1) Bridging		
(a) Three Premises Bridging Per Port	\$2.89	
(b) Series Bridging Per Port	\$2.89	

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.3 Telegraph Grade Service

Regulations concerning Telegraph Grade Service are forth in Section 7 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination per Termination		
- Two-Wire	\$20.16	\$122.14
- Four-Wire	\$20.16	\$122.14
(C) Optional Features and Functions		
(1) Telegraph Bridging Per Port		
- Two-Wire	\$ 2.89	
- Four-Wire	\$ 2.89	

16.2.4 Voice Grade Service

Regulations concerning Voice Grade Service are forth in Section 7 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination per Termination		
- Two-Wire	\$ 4.78	\$122.14
- Four-Wire	\$ 4.59	\$122.14

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.3 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.4 Voice Grade Service (Cont'd)

Monthly
Rate

(B) Reserved for Future Use

(C) Optional Features and Functions (Cont'd)

(1) Bridging (Cont'd)

(a) Data Bridging Per Port

- Two-Wire \$3.96 (R)

- Four-Wire \$3.96 (R)

(b) Telephoto Bridging Per Port

- Two-Wire \$3.96 (R)

- Four-Wire \$3.96 (R)

(c) DATAPHONE Select-A-Station

Bridging

Sequential Arrangement, Ports

Per Channel Connected

- Two-Wire \$ 24.34 (R)

- Four-Wire \$128.89 (R)

Addressable Arrangement, Ports

Per Channel Connected

- Two-Wire \$ 26.10 (R)

- Four-Wire \$132.41 (R)

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.4 Voice Grade Service (Cont'd)

Monthly
Rate

(C) Optional Features and Functions (Cont'd)

(1) Bridging (Cont'd)

(d) Telemetry and Alarm Bridging

Active Bridging Channel

Connections Per Channel

Connected

- Split Band \$ 9.44

- Summation \$ 1.66

Passive Bridging Channel

Connections Per Channel

Connected \$ 0.33

(2) Conditioning Per Termination

- C Type \$ 1.89 (R)

- Data Capability \$ 0.46 (R)

- Telephoto Capability \$ 3.32

(3) Improved Return Loss for Effective

Two-Wire or Four-Wire

Transmission Per Termination

- Two-Wire \$ 2.03

- Four Wire \$ 2.03

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.4 Voice Grade Service (Cont'd)

(4) Multiplexing Per Arrangement Voice to Telegraph Grade	\$284.50
(5) Signaling Capability Per Termination	\$ 17.24
(6) Selective Signaling Arrangement Per Arrangement	\$ 18.43
(7) Transfer Arrangement (Key-Activated* or Dial-Up**)	
--Per four Port Arrangement Including control Channel Termination***	\$ 3.95
--Per Five Port Arrangement Including control Channel Termination***	\$ 8.98
(8) Public Packet Switching Network (PPSN) Interface	ICB

* The key-activated control channel is rated as a metallic Channel Termination and Channel Mileage, if applicable.

** The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.4 (A) preceding.

*** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional channel mileage charges will apply when the transfer arrangement is not located in the customer designated premises serving wire center.

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.5 Digital Data Service

Regulations concerning Digital Data Service are set forth in Section 7 preceding.

	Monthly Rate
Channel Termination - 56.0 Kbps	\$91.47
Channel Mileage Termination - 56.0 Kbps	\$47.76
Channel Mileage Facility - 56.0 Kbps	\$4.76

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.6 High Capacity Service

Regulations concerning High Capacity Service are set forth in Section 7 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination per Termination		
- 1.544 Mbps	\$112.21	\$157.74
- 44.736 Mbps	\$1,365.36	\$478.24
(B) Optional Features and Functions		
(1) Multiplexing, Per Arrangement		
DS3 to DS1	\$431.86	
DS1 to Voice*	\$308.72	
DS1 to DS0	\$535.24	
DS0 to Subrates		
- Up to 20 2.4 kbps services	\$437.72	
- Up to 10 4.8 kbps services	\$225.61	
- Up to 5 9.6 kbps services	\$156.84	

* Applies to through connections of 2.4, 4.8, 9.6, 56.0 and 64 kbps.

ACCESS SERVICE

16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)

16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)

16.2.6 High Capacity Service (Cont'd)

	Monthly Rate
(B) Optional Features and Functions (Cont'd)	
(2) Automatic Loop Transfer Per Arrangement*	\$376.97
(3) Transfer Arrangement (Key-Activated** or Dial-Up***) Per Four Port Arrangement Including Control Channel Termination****	\$160.19

* An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer designated premises.

** The key-activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.

*** The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.4 preceding.

**** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

ACCESS SERVICE16. RATES AND CHARGES FOR COMPETITIVE SPECIAL ACCESS SERVICES (Cont'd)16.2 Rate and Charges for Competitive Special Access Services Applicable in the Competitive Service Areas of St. Thomas and St. Croix (Cont'd)16.2.7 Individual Case Filings

Rate and charges for Special Access Service provided on an individual case basis are filed following:

NONE

16.3 Other Special Access Services

16.3.1 Access Ordering (per Order)	<u>Monthly Rate</u>
(A) Access Order Charge	\$76.00
(B) Service Date Change Charge	\$60.00
(C) Design Change Charge	\$84.00
(D) Miscellaneous Service Order Charge	\$123.00

ACCESS SERVICE

17. RESERVED FOR FUTURE USE

ACCESS SERVICE18. **PUBLIC PACKET DATA NETWORKS**

Public Packet Data Networks utilize separate data networks, comprised of switching and transmission facilities. The networks provide for the transfer of data provided by a customer in a frame format. The data is separated into discrete segments for transmission through the public packet data network.

18.1 **Frame Relay Access Service**18.1.1 **General**

- (A) Frame Relay Access Service (FRAS) is a medium-speed, connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks (LANs) or other compatible customer premises equipment for the purpose of connecting to an interstate frame relay network. FRAS also allows for the interconnection of a customer-designated premises to a DSL Access Service Connection Point. The terminal equipment accumulates the customer data and puts it into a frame relay format suitable for transmission over the FRAS network. This terminal equipment must conform to American National Standards Institute and Telecommunication Standardization Bureau of the International Telecommunications Union (ITU-T), formerly Committee Consultant de International Telegraphique et Telephonique (CCITT), standards.

FRAS permits customers to share network bandwidth for data transmissions.

Rates and charges for FRAS are set forth in Section 16.1.6 preceding. The application of rates for FRAS are described in Section 18.1.2 following.

In addition to the regulations and charges specified in this section, the general regulations and charges specified in other sections of this tariff apply as appropriate

ACCESS SERVICE18. PUBLIC PACKET DATA NETWORKS (Cont'd)18.1 Frame Relay Access Service (Cont'd)18.1.1 General (Cont'd)

(B) Service Description

FRAS is a transport service that facilitates the exchange of variable length information units (frames) between customer connections. Frames travel a fixed path through the network with the address that specifies the permanent virtual connection. Addresses are read by the network processor and the frames are relayed to the preassigned destination.

FRAS service includes: the Frame Relay Access Connection, the Port Connection ("Port") and Permanent Virtual Connections (PVC) which have associated Committed Information Rates (CIRs). A Special Access facility (ordered out of Section 7 preceding) can also be used to connect to the frame relay switch.

The Frame Relay Access Connection and the Port elements provide access to a Telephone Company wire center equipped with a frame relay switch. Frame Relay Access Service connections are available from the wire centers as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

The Frame Relay Access Connection combines a frame relay compatible 64 Kbps or 1.544 Mbps digital transport facility with a port on a frame relay switch. The Frame Relay Access Connection includes the Telephone Company facility between the customer designated premises and the customer's serving wire center, the interoffice transport (if applicable) between the customer's serving wire center and a wire center equipped with a

ACCESS SERVICE18. **PUBLIC PACKET DATA NETWORKS** (Cont'd)18.1 **Frame Relay Access Service** (Cont'd)18.1.1 **General** (Cont'd)

(B) Service Description (Cont'd)

frame relay switch. The port is a user-to-network interface that provides the lineside physical entry point into the Telephone Company frame relay network and permits FRAS compatible end user customer premises equipment (CPE) to originate or terminate an interstate access service. Connections between end user customer premises equipment and the Telephone Company frame relay switch are available at speeds of 64 Kbps or 1.544 Mbps. Each port requires identification of a corresponding terminating port. All ports must be in conformance with American National Standards Institute (ANSI) standards T1.606-1990, T1.606 Addendum 1-1991, T1.606a-1992, T1.617, Annex D-1992.

The Telephone Company will provide the logical circuits required within its frame relay network to connect the ports or to connect a port with a DSL Access Service Connection Point. These logical circuits, or Permanent Virtual Connections (PVC), are software defined, end-to-end, bi-directional communications paths that are established and dis-established via the access service order process. While no physical circuits are dedicated, the two network addresses (one from each port) are connected electronically to form a PVC.

The Telephone Company will provide the logical circuits required within its frame relay network to connect the ports or to connect a port with a DSL Access Service Connection Point. These logical circuits, or Permanent Virtual Connections (PVC), are software

ACCESS SERVICE18. **PUBLIC PACKET DATA NETWORKS** (Cont'd)18.1 **Frame Relay Access Service** (Cont'd)18.1.1 **General** (Cont'd)

(C) Service Description (Cont'd)

defined, end-to-end, bi-directional communications paths that are established and dis-established via the access service order process. While no physical circuits are dedicated, the two network addresses (one from each port) are connected electronically to form a PVC.

The standard PVC establishes a communications path between two ports or between a port and a DSL Access Service Connection Point within the same Telephone Company frame relay network.

At the time service is ordered the number of PVCs will be identified along with their Committed Information Rates. CIR is the bit rate at which the FRAS network commits to transfer data. Committed Information Rates provide for frame relay switch throughput at designated speeds (See 18.1.2 (A) (3) following). This information is required for network routing purposes.

(C) Ordering Options and Conditions

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

(D) Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test at the time of installation.

ACCESS SERVICE18. PUBLIC PACKET DATA NETWORKS (Cont'd)18.1 Frame Relay Access Service (Cont'd)18.1.2 Rate Regulations

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

Frame Relay Access Service is available at the wire centers as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

(A) Rate Categories

(1) Frame Relay Access Connection

The Frame Relay Access Connection rate element recovers the costs associated with the communication path between the end user's premises and the Telephone Company wire center equipped with a frame relay switch. This connection includes the physical transmission facility between the customer designated premises and the customer's serving wire center, the interoffice transport (if applicable) between the customer's serving wire center and a wire center equipped with a frame relay switch, and the end user port on the Telephone Company's frame relay switch.

One connection charge applies per customer designated premises at which the FRAS connection is terminated. This applies even if the customer designated premises and the frame relay switch are collocated in a Telephone Company building.

ACCESS SERVICE18. PUBLIC PACKET DATA NETWORKS (Cont'd)18.1 Frame Relay Access Service (Cont'd)18.1.2. Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(2) Port

A Port charge is applied as a discrete rate element in conjunction with jointly-provided Special Access Service. Refer to Sections 7.9 and 7.10 preceding for additional applicable rates and charges.

The Port is the physical location in the Telephone Company switching office where the transport facility of the customer connects to the FRAS Network. It specifies how a frame relay switch sends and receives data from a frame relay end user customer's LAN or other compatible CPE devices.

The Port consists of either a 64 Kbps or 1.544 Mbps interface. The port connecting the transport facility to the Telephone Company frame relay switch must be ordered and provided at the same speed as the associated transport facility.

ACCESS SERVICE18. **PUBLIC PACKET DATA NETWORKS** (Cont'd)18.1 **Frame Relay Access Service** (Cont'd)18.1.2. **Rate Regulations** (Cont'd)

(A) Rate Categories (Cont'd)

(3) Permanent Virtual Connection (PVC)

A PVC is a software defined communications path between two port connections or between a port connection and a DSL Access Service Connection Point.

Each PVC is provisioned with a customer selected Committed Information Rate. The CIR is a transmission speed specified by the customer. CIRs range from 64 Kbps to 768 Kbps. The Telephone Company will provide switch capacity to permit the customer to transmit information with guaranteed delivery at the specified CIR. The Telephone Company will permit customers to attempt to transmit at speeds up to two times the CIR with no guarantee of completion. Attempted transmissions at above two times the CIR will not be permitted.

Customers will be permitted to order multiple PVCs on a given port subject to switch limitations. Customers anticipating non-simultaneous transmission may order CIRs assigned to these multiple PVCs, the sum of which may theoretically exceed the actual throughput of the port. However, when simultaneous transmission of multiple PVCs occurs, the total of the transmission rate (CIRs) may not exceed the actual throughput of the port.

The standard PVC establishes a communications path between two ports or between a port and a DSL Access Service Connection Point within the same Telephone Company frame relay network.

ACCESS SERVICE18. **PUBLIC PACKET DATA NETWORKS** (Cont'd)18.1 **Frame Relay Access Service** (Cont'd)18.1.2. **Rate Regulations** (Cont'd)

(B) Types of Rates and Charges

There are two types of rates and charges. They are monthly rates and nonrecurring charges. The rates and charges are described as follows:

(1) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof that a FRAS is provided. For billing purposes, each month is considered to have 30 days.

(2) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for FRAS are: installation of service and service rearrangements. These charges are in addition to the Access Order Charge as specified in Section 16.3.1 preceding:

(a) Installation of Service

Nonrecurring charges apply for the installation of Frame Relay Access Connections and Permanent Virtual Connections (PVC).

A nonrecurring charge applies per Frame Relay Access Connection installed and is based on the speed of the connection. A nonrecurring charge applies per PVC installed.

ACCESS SERVICE18. **PUBLIC PACKET DATA NETWORKS** (Cont'd)18.1 **Frame Relay Access Service** (Cont'd)18.1.2. **Rate Regulations** (Cont'd)

(B) Types of Rates and Charges (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(b) Service Rearrangements

Service Rearrangements are changes to existing (installed) services.

A PVC Rearrangement Charge will be applied whenever a change is made to the CIR of an existing PVC after initial port installation and/or a change is made to the terminating port destination of the PVC.

Administrative changes will be made without charge (s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of 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 or customer's end user contact name or telephone number, and
- Change of jurisdiction.

ACCESS SERVICE18. PUBLIC PACKET DATA NETWORKS (Cont'd)18.1 Frame Relay Access Service (Cont'd)18.1.2. Rate Regulations (Cont'd)

(B) Types of Rates and Charges (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(c) Moves

A Move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(i) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements. This charge is in addition to the Access Order Charge as specified in Section 16.3.1 preceding.

ACCESS SERVICE18. PUBLIC PACKET DATA NETWORKS (Cont'd)18.1 Frame Relay Access Service (Cont'd)18.1.2. Rate Regulations (Cont'd)

(B) Types of Rates and Charges (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(c) Moves (Cont'd)

(ii) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.