

INTERSTATE SERVICE GUIDE

ACCESS SERVICE

Regulations, Rates and Charges
applying 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 territories of the Issuing Carriers listed
on Title Page 2.

ACCESS SERVICE

ISSUING CARRIERS

Puerto Rico Telephone Company Study Area 633201
1515 Roosevelt Avenue
Guaynabo, Puerto Rico 00968

Puerto Rico Telephone Company - Central Study Area 633200
1515 Roosevelt Avenue
Guaynabo, Puerto Rico 00968

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CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

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EXPLANATION OF SYMBOLS

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

EXPLANATION OF ABBREVIATIONS

ADA	-	Abbreviated Dialing Arrangement
AML	-	Actual Measured Loss
ANI	-	Automatic Number Identification
AP	-	Program Audio
AT&T	-	American Telephone and Telegraph Company
BHMC	-	Busy Hour Minutes of Capacity
CCS	-	Common Channel Signaling
CDP	-	Customer Designated Premises
CI	-	Channel Interface
CNP	-	Charge Number Parameter
CO	-	Central Office
Cont'd	-	Continued
CPE	-	Customer Provided Equipment
CPN	-	Calling Party Number
CSP	-	Carrier Selection Parameter
DA	-	Directory Assistance
dB	-	decibel
dBrnC	-	Decibel Reference Noise C-Message Weighting
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
F.C.C.	-	Federal Communications Commission
HC	-	High Capacity
Hz	-	Hertz
IC	-	Interexchange Carrier
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
kbps	-	kilobits per second

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EXPLANATION OF ABBREVIATIONS (Cont'd)

kHz	-	kilohertz
LATA	-	Local Access and Transport Area
ma	-	milliamperes
Mbps	-	Megabits per second
mcs	-	Microsecond
MHz	-	Megahertz
MRC	-	Monthly Recurring Charge
MT	-	Metallic
MTS	-	Message Telecommunications Service(s)
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NXX	-	Three-Digit Central Office Prefix
PBX	-	Private Branch Exchange
PIC	-	Presubscribed Interexchange Carrier
POT	-	Point of Termination
SAC	-	Service Access Code
SNAL	-	Signaling Network Access Line
SP	-	Signaling Point
SPOI	-	Signaling Point of Interface
SRL	-	Singing Return Loss
SSP	-	Service Switching Point
SS7	-	Signaling System 7
STP	-	Signal Transfer Point
SWC	-	Serving Wire Center
TG	-	Telegraph Grade
TLP	-	Transmission Level Point
TV	-	Television
VG	-	Voice Grade
V & H	-	Vertical & Horizontal
WATS	-	Wide Area Telecommunications Service(s)
WSC	-	Wireless Switching Center
WSO	-	WATS Serving Office

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REFERENCE TO OTHER TARIFFS

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

The following tariffs are referenced in this Interstate Service Guide and may be obtained from the Federal Communications Commission's commercial contractor:

National Exchange Carrier Association, Inc.	National Exchange Carrier Association, Inc.	National Exchange Carrier Association, Inc.
Special Construction Tariff F.C.C. No. 3	Interstate Access Service Tariff F.C.C. No. 5	Wire Center Information Tariff F.C.C. No. 4

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this Interstate Service Guide and may be obtained from Bell Communications Research, Inc., Customer Services, 60 New England Ave., Piscataway, NJ 08854-4196.

Technical Reference:

Multiple Exchange Carrier Access Billing (MECAB) Guidelines
Issued: June 1994

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines
Issued: May 1994

PUB 41004 Data Communications Using Voiceband Private Line Channels
Issued: October 1973

PUB 62310 (MDP-326-726) Digital Data System Channel Interface Specification
Issued: September 1983

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

TR-NPL-000258 Compatibility Information for Feature Group D Switched Access Service
Issued: October 1985

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

TR-TSY-000335, Issue 2 Voice Grade Special Access Service - Transmission Parameter Limits and Interface Combinations
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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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

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

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

TR-NWT-000341 Digital Data Special Access Service - Transmission
Parameter Limits and Interface Combinations
Issued: Issue 2, February 1993

TR-INS-000342 High Capacity Digital Special Access Service
Issued: February 1991

SR-STS-000307 Issue 5 NC/NCI Code Dictionary
Issued: May 1994

TR-TSY-000506 LATA Switching Systems Generic Requirements (LSSGR)
Section 6
Issued: October 1987, Revised December 1988, Revised June 1990

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

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

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

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

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

The following technical publication is referenced in this Interstate Service Guide and may be obtained from the National Exchange Carrier Association, Inc., Director - Access Tariffs, 100 So. Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1, Issue II Access Service
Issued: May 1984
Addendum: March 1987

The following publications are referenced in this Interstate Service Guide and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 N. Capital St., N.E., Washington, D.C. 20401.

Telecommunications Service Priority (TSP) System for National Security
Emergency Preparedness (NSEP) Service Vendor Handbook, National
Communications System (NCSH 3-1-2).

Issued: July 1990
Available: August 1990

Telecommunication Service Priority (TSP) System for National Security
Emergency Preparedness (NSEP) Service User Manual, National Communications
System (NCSM 3-1-1).

Issued: July 1990
Available: August 1990

The following publication is referenced in this Interstate Service Guide and may be obtained from Director-Sales Operations, Integrated Network Corporation, P.O. Box 6875, Bridgewater, NJ 08807.

Integrated Network Corporation
Document CB-INC-100
Available: June 1990

The following publication is referenced in this Interstate Service Guide and may be obtained from AT&T, 26 Parsippany Road, Whippany, NJ 07981.

AT&T PUB 62310
(and its Addendum 2 and Addendum 3)
Available: October 1989

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ACCESS SERVICE

1. Application of Interstate Service Guide

- 1.1 This Interstate Service Guide contains regulations, rates and charges applicable to the provision of Special Access, hereinafter referred to collectively as service(s). These services are provided to customers by the Issuing Carriers of this Interstate Service Guide, hereinafter the Telephone Company. This Interstate Service Guide also contains Access Ordering regulations and charges that are applicable when these services are ordered or modified by the customer.
- 1.2 The provision of such services by the Telephone Company as set forth in this Interstate Service 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 Interstate Service 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 Interstate Service Guide.
- (E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this Interstate Service Guide.

2.1.2 Limitations

(A) Assignment or Transfer of Services

The customer may assign or transfer the use of services provided under this Interstate Service Guide 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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) Assignment of Transfer of Services (Cont'd)

- (2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

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

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

(B) Use and Restoration of Services

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(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 Interstate Service 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability

(A) Limits of Liability

The Telephone Company's liability, if any, for its willful misconduct is not limited by this Interstate Service Guide. 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 Interstate Service Guide as a Credit Allowance for a Service Interruption.

(B) Acts or Omissions

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

(C) Damages to Customer Premises

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(D) Indemnification of Telephone Company

(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 Interstate Service Guide, 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 Interstate Service 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 Interstate Service Guide, involving:

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(D) Indemnification of Telephone Company (Cont'd)

(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 Interstate Service Guide.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(E) Explosive Atmospheres

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

(F) No License Granted

No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this Interstate Service 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 Interstate Service 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 Interstate Service 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 Interstate Service 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 Interstate Service 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 as set forth 7.2.3 following.

2.1.6 Service Maintenance

The services provided under this Interstate Service 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 to any interface means used, except with the written consent 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

Except as provided for equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, substitute, change or rearrange any facilities used in providing service under this Interstate Service 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 metallic facilities,
- substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities,
- substitution of fiber or optical facilities,
- change of minimum protection criteria,
- change of operating or maintenance characteristics of facilities, or
- change of operations or procedures of the Telephone Company.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service

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

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

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

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

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

ACCESS SERVICE

2. 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 as provided for equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R. Section 68.108, if the customer fails to comply with 2.2.1 following (Interference or Impairment), the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, the Telephone Company may temporarily discontinue service forthwith if such action is reasonable in the circumstances. In case of such temporary discontinuance, the customer will be notified promptly and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.
- (D) When access service is provided by more than one Telephone Company, the companies involved in providing the joint service may individually or collectively deny service to a customer for nonpayment. Where the Telephone Company(s) affected by the nonpayment is incapable of effecting discontinuance of service without cooperation from the other joint providers of The Access Service, such other Telephone Company(s) will, if technically feasible, assist in denying the joint service to the customer. Service denial for such joint service will only include calls originating or terminating within, or transiting, the operating territory of the Telephone Companies initiating the service denial for nonpayment. When more than one of the joint providers must deny service to effectuate termination for nonpayment, in cases where a conflict exists in the applicable provisions, the regulations of the end office Telephone Company shall apply for joint service discontinuance.

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

- (E) If the Telephone Company does not refuse additional applications for service and/or does not discontinue the provision of the services as specified for herein, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service and/or to discontinue the provision of the services to the non-complying customer without further notice.

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

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Notification of Service-Affecting Activities

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

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

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

2.1.10 Coordination with Respect to Network Contingencies

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

2.1.11 Provision and Ownership of Telephone Numbers

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

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2. General Regulations (Cont'd)

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 Interstate Service Guide shall not:

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

2.2.2 Unlawful and Abusive Use

- (A) The service provided under this Interstate Service Guide shall not be used for an unlawful purpose or used in an abusive manner.

Abusive use includes:

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

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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 Interstate Service Guide caused by the negligence or willful act of the customer or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

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

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.3 Equipment Space and Power

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

2.3.4 Availability for Testing

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

2.3.5 Limitation of Use of Metallic Facilities

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

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.6 Balance

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

2.3.7 Design of Customer Services

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

2.3.8 References to the Telephone Company

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Claims and Demands for Damages

- (A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this Interstate Service Guide, any circuit, apparatus, system or method provided by the customer.
- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses and damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this Interstate Service Guide including, without limitation, Worker's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this Interstate Service Guide; 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 Interstate Service Guide.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Coordination with Respect to Network Contingencies

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

2.3.11 Jurisdictional Report and Certification Requirements

(A) Certification Requirements - Special Access

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

When a Special Access Service is certified to be jurisdictionally changed, the effective date of the change will be the date the Telephone Company receives the customer's certification. There is no charge when the customer's reply results in a jurisdictional change in the Special Access Service.

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

ACCESS SERVICE

2. 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances

2.4.1 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 as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded.

Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the same percentage rate as that set forth in (C) (2) (a) or in (C) (2) (b) following, whichever is lower.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Bill Dates

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

(1) End User Access Service and Presubscription

For End User Access Service and Presubscription Service, the Telephone Company will establish a bill day each month for each end user account or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days' notice or initiated by the Telephone Company more than twice in any consecutive 12-month period. The bill will cover End User Access Service charges for the ensuing billing period except for End User Access Service for the Federal Government which will be billed in arrears. Any applicable Presubscription Charges, any known unbilled charges for prior periods and any known unbilled adjustments for prior periods for End User Access Service and Presubscription Service will be applied to this bill. Such bills are due when rendered.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Bill Dates (Cont'd)

(2) Access Services Other Than End User and Presubscription

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(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 and Presubscription Service, provided to the customer by the Telephone Company are due 31 days (payment date) after the bill day or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If the customer does not receive a bill at least 20 days prior to the 31-day payment due date, then the bill shall be considered delayed. 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.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

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

(1) (Cont'd)

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

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

(2) Further, if no payment is received by the payment date or if a payment or any portion of a payment is received by the Telephone Company after the payment date as set forth in (1) preceding, or if a payment or any portion of a payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the payment or the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

- (a) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or
- (b) 0.000292 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(E) Billing Disputes Resolved in Favor of the Customer

If the customer pays the total billed amount and disputes all or part of the amount, the Telephone Company will refund any overpayment. In addition, the Telephone Company will pay to the customer penalty interest on the overpayment. When a claim is filed within 90 days of the due date, the penalty interest period shall begin on the payment date. When a claim is filed more than 90 days after the due date, the penalty interest period shall begin from the date of the claim or the date of overpayment, whichever is later.

The penalty interest period shall end on the date that the Telephone Company actually refunds the overpayment to the customer. The penalty interest rate shall be the lesser of:

- (1) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the 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

(F) Proration of Charges

Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this Interstate Service Guide will be prorated to the number of days based on a 30-day month. The Telephone Company will, upon request, furnish within 30 days of a request and at no charge to the customer such detailed information as may reasonably be required for verification of any bill.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(G) Rounding of Charges

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

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those usage rated services set forth in 7.2.4, (Part-time Video and Program Audio), 7.2.8 (High Capacity DS1 and DS3 Service), and 7.12 (Synchronous Optical Channel Service) or as otherwise specified.

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

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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 Interstate Service Guide.

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 Interstate Service Guide or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in 6.2.1 following. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative.

(B) When a Credit Allowance Applies

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

For Digital Data Access, SD Codes D1 through D6, High Capacity, HC1, Special Access Services, and Synchronous Optical Channel Service (OB, OD) any period during which the error performance is below that specified for the service will be considered as an interruption.

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

Credit allowances are computed as follows:

(1) Special Access Service other than
Program Audio and Video

For Special Access Services other than Program Audio and Video Services, no credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or Major Fraction Thereof that the interruption continues.

The monthly charges used to determine the credit shall be as follows:

(a) Two-point Services

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(1) Special Access Service other than Program
Audio and Video (Cont'd)

(c) Multiplexed Services

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(2) Program Audio and Video Special Access Services

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

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

- (d) For multipoint services, when daily rates are applicable, the credit shall be at the daily rate of 1/288 of the daily charges for channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.
- (e) For multipoint services, the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.
- (f) When two or more interruptions occur during a period of 5 consecutive minutes, such multiple interruptions shall be considered as one interruption.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

(4) Credit Allowances Cannot Exceed Monthly Rate

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

(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

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

- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in National Exchange Carrier Association, Inc., TARIFF F.C.C. NO. 3 for 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, that would result in credit in an amount 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 Interstate Service Guide rates and charges for the alternative service used.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(E) Temporary Surrender of a Service

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

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

(A) Nonrecurring Charges Do Not Apply

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

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

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

(B) Nonrecurring Charges Apply

Nonrecurring Charges apply for establishing service at a different location on the same premises or at a different premises pending 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 Interstate Service Guide does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by the Telephone Company in the provision of such services.

2.4.7 Access Services Provided By More Than One Telephone Company

When an Access Service is provided by more than one Telephone Company, the Telephone Companies involved will mutually agree upon one of the billing methods as set forth in (B) (1) and (2) following based on the service being provided. The Telephone Companies 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 5.3 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. Each Telephone Company jointly providing the access service will receive an order or a copy of the order from the customer as specified in 5.3.2 following and arrange to provide the service.

ACCESS SERVICE

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)

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 Local Transport or 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. The Single Bill option is the preferred method. However, 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.

A Telephone Company that renders a meet point bill, the Bill Rendering Company, will render the bill in accordance with the industry standards. 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.

ACCESS SERVICE

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

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 Companies' Charges
- Single Bill/Pass Through Billing, and
- Single Bill/Single Company Charges

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

(a) Single Bill/Multiple Companies' Charges

The single bill/multiple Companies 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 charges.

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;
- 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

ACCESS SERVICE

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)

(a) Single Bill/Multiple Companies' Charges
(Cont'd)

- 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 for Transport services and/or Channel Mileage as set forth in (3) following;
- determine and include all applicable recurring and nonrecurring rates and charges for its access services; and
- forward the bill to the Bill Rendering Company for the meet point access service.

ACCESS SERVICE

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)

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.

ACCESS SERVICE

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)

(C) Single Bill/Single Company Charges

The single bill/single company bill provides a meet point bill that is billed completely at the Billing Rendering Company's access rates and regulations.

The Bill Rendering Company will:

- determine and include on the access bill all other recurring and nonrecurring rates and charges per its Interstate Service Guide or its access tariff; and
- forward the bill to the customer.

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

(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 rates and regulations. For Multiple bills, the end office company is generally the Initial Billing Company (IBC), and each connecting company providing service is a Subsequent Billing Company(s). Each company, IBC and SBC, will:

ACCESS SERVICE

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)

(2) Multiple Bill Option (Cont'd)

- prepare its own bill;
- determine its charge(s) for Transport services and/or Channel Mileage as set forth in (3) following;
- determine and include all recurring and nonrecurring rates and charges of its Interstate Service Guide or 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.

(3) Determination of Meet Point Billing

Each Telephone Company's portion of the Transport services and 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 (0serving wire centers for Special Access) using the V&H method set forth respectively in 7.2.5 following.

ACCESS SERVICE

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)

(3) Determination of Meet Point Billing (Cont'd)

(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.

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) Reserved for Future Use

(h) When three or more Telephone Companies are involved in providing an Access Service, the intermediate Telephone Company(s) will determine the charges as set forth in (c) through (g) preceding. Additionally, when a segment of the Channel Mileage Facility is measured to the intermediate office(s), the Mileage Termination rates are also applied at the intermediate Telephone Company(s) office(s).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

800 Data Base Access Service

The term A800 Data Base Access Service@ denotes a service which 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 Interstate Service Guide regarding the provision of 800 Database Access, except where otherwise specified, 800 Database Access Services shall include the following services 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", with the exception of Feature Group B (FGB) with an Abbreviated Dial Arrangement (ADA), denotes a uniform digit access code assigned by the Telephone Company to an individual customer in the form 101XXXX and 950-XXXX. Access codes for FGB with an ADA are explained in 6.9.2 following.

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 Tandem

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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.

Balance (100 Type) Test Line

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

Bit

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

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 a.m. to 5:00 or 6:00 p.m., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, that company should be contacted at the address shown under the Issuing Carrier's name listed on Title Page 2 preceding.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Busy Hour Minutes of Capacity (BHMC)

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

Call

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

Carrier or Common Carrier

See Interexchange Carrier.

CCS

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

Central Office

See End Office.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Central Office Maintenance Technician

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

Central Office Prefix

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

Channel(s)

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

Channel Service Unit

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

Channelize

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

C-Notched Noise

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

Coin Station

See Pay Telephone.

Common 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.

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.

Communications System

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

Customer(s)

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

ACCESS SERVICE

2. 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.

Data Transmission (107 Type) Test Line

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

Decibel

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

Decibel Reference Noise C-Message Weighting

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

Decibel Reference Noise C-Message Referenced to 0

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

Denied Terminating Service

A Central Office feature that restricts incoming calls to a line.

Detail Billing

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

Digital Switched 56 Service

A switched access optional feature available with Feature Group C and Feature Group D Access, which provides for data transmission at up to 56 Kilobits per second.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Direct-Trunked Transport

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

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 by dialing NPA + 555-1212 or 555-1212.

Directory Assistance Location (Interstate)

The term "Directory Assistance Location" denotes a Telephone Company office where telephone company equipment first receives the Directory Assistance call from the customer's end user and selects the first operator position to respond to the Directory Assistance call.

Dual Tone Multifrequency Address Signaling

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

Echo Control

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

Echo Path Loss

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Echo Return Loss

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

Effective 2-Wire

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

Effective 4-Wire

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

End Office

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

End User

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

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Puerto Rico Telephone Company
1515 Roosevelt Avenue
Guaynabo, Puerto Rico 00968

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Enhanced Service

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

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.

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). $[ELEPL = EPL - TLP \text{ (send)} + TLP \text{ (receive)}]$.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Exchange

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

Exit Message

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Expected Measured Loss

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

Extended Area Service

See Exchange.

First Point of Switching

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

Flexible Automatic Number Identification (Flexible ANI)

The term AFlexible Automatic Number Identification@ denotes an optional feature or Basic Service Element that provides additional values for the information indicator digits available with the ANI feature on originating calls. These additional digits identify the type of line that is originating the call for billing, screening and routing purposes.

Frequency Shift

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

Grandfathered

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

The term "Hub" denotes a wire center at which bridging or multiplexing functions are performed for customers served out

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of any wire center.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Immediately Available Funds

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

Impedance Balance

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

Impulse Noise

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

Individual Case Basis

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

Initial Address Message

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

Inserted Connection Loss

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Installation and Repair Technician

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

Interexchange Carrier (IC) or Interexchange Common Carrier

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

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 measured using four tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Interstate Communications

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

Intrastate Communications

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

ACCESS SERVICE

2. 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.

Loss Deviation

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

Major Fraction Thereof

The term "Major Fraction Thereof" denotes any period of time in excess of 1/2 of the stated amount of time. As an example, in considering a period of 24 hours, a major fraction thereof would be any period of time in excess of 12 hours exactly. Therefore, if a given service is interrupted for a period of thirty-six hours and fifteen minutes, the customer would be given a credit allowance for two twenty-four-hour periods for a total of forty-eight hours.

Message

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Milliwatt (102 Type) Test Line

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

Network Control Signaling

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

Nonsynchronous Test Line

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

North American Numbering Plan

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

Off-hook

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

On-hook

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

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.

Originating Direction

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

Pay Telephone

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Phase Jitter

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

Point of Termination

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

Premises

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

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

Return Loss

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

Registered Equipment

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Service Access Code

The term "Service Access Code" denotes a 3-digit code in the NPA format which is used as the first three digits of a 10 digit address and which is assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. Examples of Service Access Codes include the 800 and 900 codes.

Service Switching Point (SSP)

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

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

Seven Digit Manual Test Line

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

Shortage of Facilities or Equipment

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Short Circuit Test Line

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

Signal-to-C-Notched Noise Ratio

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

Signaling Point (SP)

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

Signaling Point of Interface (SPOI)

The term "Signaling Point of Interface (SPOI)" denotes the 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 signing (instability) problems are most likely to occur.

Signaling System 7 (SS7)

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

Signal Transfer Point (STP)

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

Signal Transfer Point (STP) Port

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

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2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Special Order

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

Subtending End Office of an Access Tandem

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

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 rate 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 (NX51.84 Mbps.). For example, OC12 equals 12 x 51.84 Mbps.

Synchronous Test Line

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

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 maintain 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, STS-12 is 622.08).

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Tandem Switched Transport

The term "Tandem Switched Transport" denotes transport from the tandem to the end office, that is switched at a tandem.

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.

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.

Transmission Measuring (105 Type) Test Line/Responder

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Transmission Path

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

Trunk

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

Trunk Group

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

Trunk Side Connection

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

Two-Wire to Four-Wire Conversion

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

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

V and H Coordinates Method

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

WATS Serving Office

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

Wireless Switching Center

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 network.

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

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Guaynabo, Puerto Rico 00968

ACCESS SERVICE

5. Access Ordering

5.1 General

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

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

The regulations, rates and charges for special construction are set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, Inc., TARIFF F.C.C. NO. 3 and are in addition to the regulations, rates and charges specified in this section.

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, and in addition the customer must also provide:

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

ACCESS SERVICE

5. 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 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 as set forth in 17.2.3(A) following.

ACCESS SERVICE

5. 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 also request an earlier service date on a pending Access Order. In this 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 used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in 17.2.3(A) following.

To develop, determine and bill the customer the extraordinary costs which 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 this service guide, see 5.1.4 following.

When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in 17.2.1(B) 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 only provided for High Capacity Facilities Special Access, 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 Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request.

5.1.4 Special Construction

The Special Construction terms and conditions as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, Inc., TARIFF F.C.C. NO. 3 will be used by the Telephone Company. Authorization to incur the costs and to bill the customer will be in accordance with the terms and conditions of NATIONAL EXCHANGE CARRIER ASSOCIATION, Inc., TARIFF F.C.C. NO. 3.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Special Access Service

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

- the customer designated premises or hubs 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.

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

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 (e.g., Digital Data, High Capacity Multiplexing, etc.) and 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.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.2 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 following, must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

5.2.3 Mixed Use Facilities - Switched and Special Access

Mixed use is the provision of both Switched and Special Access Services over the same High Capacity facilities. Mixed use facilities to a hub 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 or Special Access Service as further elaborated and set forth in Section 6.4.7 of PRTC F.C.C. Tariff No. 1 and 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 SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.4 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 17.2.1(B) following will apply. When miscellaneous services are added to a pending order, charges for a design change as set forth in 17.2.1(C) 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 17 of this Interstate Service Guide, will apply in addition to the ordering charges set forth in Section 17 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 SERVICE

5. Access Ordering (Cont'd)

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

Access Services provided by more than one Telephone Company are services where one end of the Transport Service or Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company or where the Interim NXX Translation service and the end office are not provided by the same Telephone Company.

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in 2.4.7 preceding, to be used by the Telephone Companies involved in providing the Access Service. The Telephone Company will notify the customer which of the ordering procedures will apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

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

5.3.1 Meet Point Billing Ordering

Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) with the other Telephone Company(s). Billing Percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Each Telephone Company will bill the customer for its portion of the service as set forth in 2.4.7. All other appropriate charges in each Telephone Company tariff are applicable.

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

- (A) Customers ordering Special Access Service to be interconnected with Switched Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS or WATS-type Services must place an order with each Telephone Company in whose territory the end office and the WATS Serving Office are located, if they are not collocated.
- (B) Except for Special Access Service as set forth in (A) above or as set forth in (C) below, the customer may place the order for a Special Access Service with either Exchange Telephone Company.
- (C) For Special Access Service involving a hub(s) the customer must place the order with the Telephone Company(s) in whose territory the hub(s) is located.
- (D) For initiation, additions, changes or deletions to the Interim NXX Translation code(s), the customer must place an order with the Telephone Company who provides the Interim NXX Translation. The customer must also provide a copy of the order to the Telephone Companies subtending the Interim NXX Translation office.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering

5.4.1 Access Order Charge

An Access Order Charge, as set forth in 17.2.1(A) following, applies to all customer requests for new Special Access Service. In addition, the Access Order Charge is 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(C) (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 service guide rate prior to the expiration of the ICB.
- When a Billing Name and Address Order charge is applicable.

ACCESS SERVICE

5. 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 17.2.1(D) following, applies to any service, or combination of services, ordered simultaneously from Section 13. of the tariff 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 (13.2.2),
- Standby Repair (13.2.3),
- Testing and Maintenance with Other Telephone Companies other than when in conjunction with Acceptance Testing (13.2.4),
- Other Labor (13.2.5),
- Maintenance of Service (13.3.2).

The Miscellaneous Service Order Charge will also apply to the following services if they are ordered subsequent to the initial installation of the associated access service, thereby necessitating the issuance of another service order:

- Telecommunications Service Priority (13.3.3)

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

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

ACCESS SERVICE

5. 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 17.2.1(B) and (C) 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.

ACCESS SERVICE

5. 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

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 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 17.2.1(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.

If the requested service date exceeds 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; however, 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.

ACCESS SERVICE

5. Access Ordering (Cont'd)5.4 Charges Associated with Access Ordering (Cont'd)5.4.3 Access Order Change Charges (Cont'd)(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 such things as the addition or deletion of optional features or functions, 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 17.2.1(C) following will apply in addition to the charge for Additional Engineering as set forth in 17.2.2 following. If a change of service date is required, the Service Date Change Charge as set forth in 17.2.1(B) following will also apply. The Access Order Charge as specified in 17.2.1 following does not apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Periods and Cancellations

5.5.1 Minimum Periods

The minimum period for part-time Video and Program Audio Special Access Services is one day even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.).

The minimum period for High Capacity DS1 and DS3 Special Access Services is as set forth in 7.2.8 following and Synchronous Optical Channels is set form in 7.2.4.

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) For Special Access, the charge for a month or fraction thereof is the applicable monthly rates for the appropriate channel type plus any optional features, nonrecurring and/or special construction charge(s) that may apply.
- (B) The Minimum Period Charge for part-time Video and Program Audio Services is the applicable daily rate for the appropriate channel type as set forth in 7.2.4 following.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Period and Cancellations (Cont'd)

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 10 days. If a customer or a customer's end user is unable to accept Access Service within 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 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 SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Period 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 minimum period charges 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.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Period and Cancellations (Cont'd)

5.5.3 Cancellation of an Access Order (Cont'd)

- (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

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Puerto Rico Telephone Company
1515 Roosevelt Avenue
Guaynabo, Puerto Rico 00968

ACCESS SERVICE

7. Special Access Service

7.1 General

Special Access Service provides a transmission path to connect customer designated premises*, directly, 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. 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.

Special Access Service purchased from the provisions of this Interstate Service Guide may be commingled with unbundled network elements or unbundled network element combinations purchased pursuant to the Commission's Part 51 Interconnection Rules and in compliance with the Federal Communications Commission's Report and Order and Order on Remand and Further Notice of Proposed Rulemaking in CC Docket Nos. 01-338, 96-98 and 98-147, adopted February 20, 2003 and released August 21, 2003 (FCC 03-36).

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 Telegraph Grade Service in this Interstate Service Guide, there is no restriction against doing so.

ACCESS SERVICE

7. 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:

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.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz, or from 50 to 15000 Hz.

Video - a channel for the transmission of standard 525 line 60 field monochrome or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 Kbps.

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

Synchronous Optical - A channel for the transmission of synchronous full duplex data over optical fiber at a rate of 622.08 Mbps.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Detailed descriptions of each of the channel types are provided in 7.5 through 7.10 following.

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 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions

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

Service Designator Codes

Telegraph Grade	TG
Voice	VG
Program Audio	AP
Video	TV
Digital Data	DA
High Capacity	HC
Synchronous Optical	OC

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, described in this section, are added to construct the service desired by the customer. 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 7.5 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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

- (A) Information pertaining to the technical specifications packages indicates 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.
- (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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

- (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 Interstate Service Guide.
- (F) All services installed after April 1, 1985 will conform to the transmission specifications standards contained in this Interstate Service Guide or in the following Technical References for each category of service:

Telegraph Grade	TR-NPL-000336
Voice Grade	TR-TSY-000335
	PUB 41004, Table 4
Program Audio	TR-NPL-000337
	and associated Addendum
Video	TR-NPL-000338
Digital Data	TR-NWT-000341
For 2.4,4.8,9.6&56.0 Kbps	BellCore Pub 62310
	(MDP-326-726)
For 19.2 Kbps	INC Bulletin CB-INC-100
For 64.0 Kbps	AT&T PUB 62310
High Capacity	TR-INS-000342
	TR-NPL-000054
	PUB 62411
Synchronous Optical	GR-253-CORE
For OC12	GR1374-CORE
	ANSI T1.105
	ANSI T1.102

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

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

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

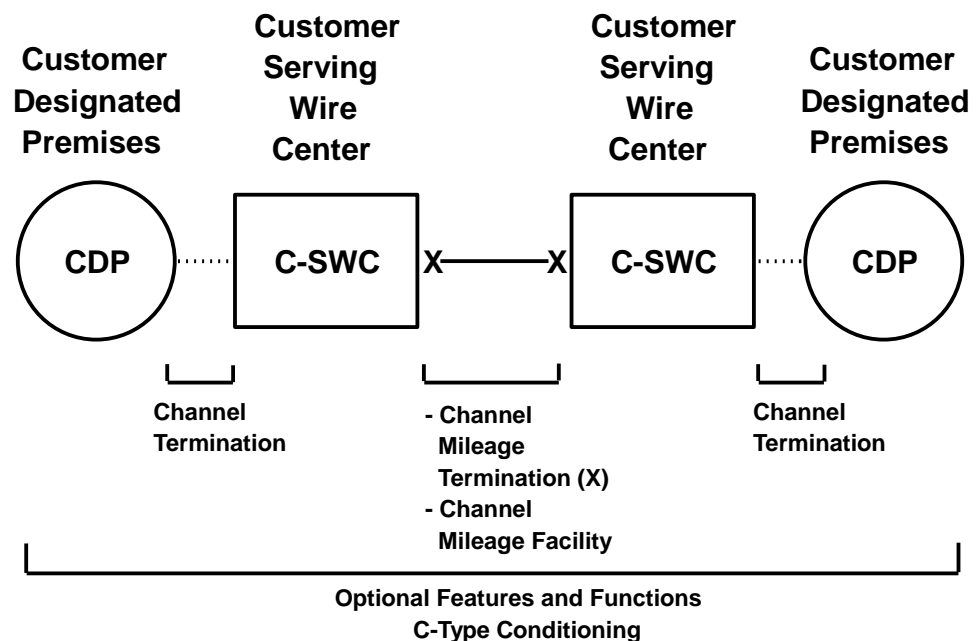
(A) Two-Point Service (Cont'd)

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 be applicable.

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

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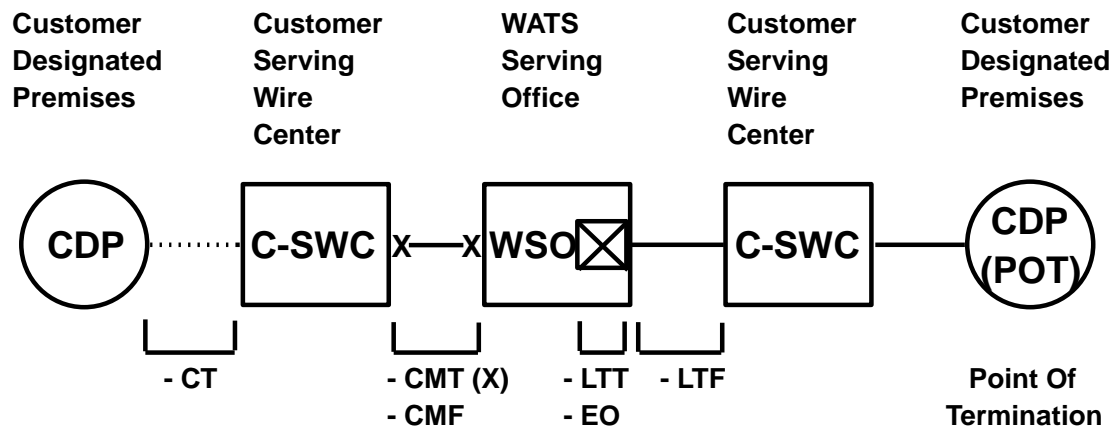
7. Special Access Service (Cont'd)

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.



Special Access

CT - Channel Termination
CMT - Channel Mileage Termination
CMF - Channel Mileage Facility

Switched Access

LTT - Local Transport Termination
EO - End Office Elements
LFT - Local Transport Facility

Applicable rate elements for Special Access are:

- ```
- Channel Termination
- Channel Mileage
 . 2 Channel Mileage Terminations plus
 . 1 section, Channel Mileage Facility per mile
- Special Access Surcharge*
```

\* May not apply if exemption certification is provided

ACCESS SERVICE

7. 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. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding and 15.2 following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable 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)

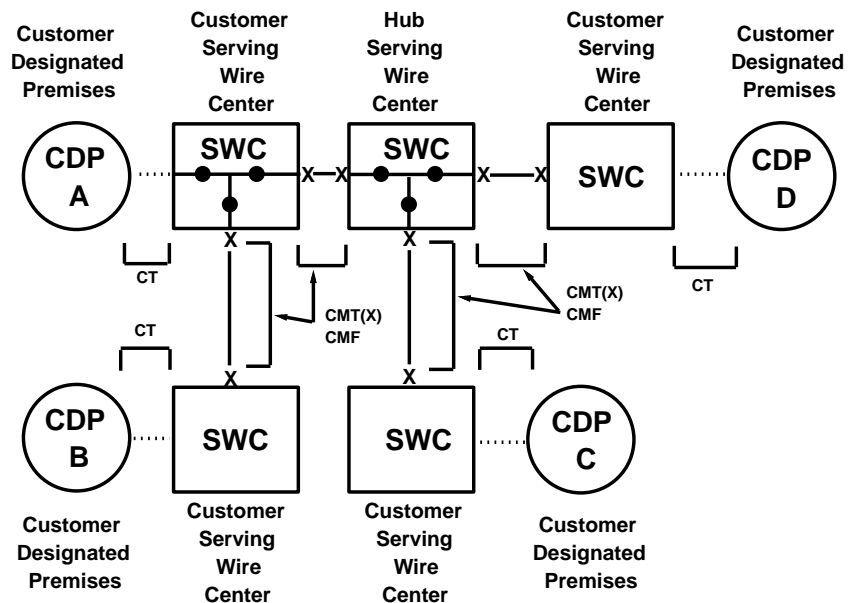
7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

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

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

ACCESS SERVICE

7. 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. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12 following, Specialized Service or Arrangements. The customer will pay the stated 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 make-up of the facilities and services provided under this Interstate Service Guide 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

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test the following 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. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Telegraph, Program Audio, and Video) 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 which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations

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

7.2.1 Rate Categories

There are three basic rate categories which 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) following).

(A) Channel Terminations:

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 which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability 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.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(A) Channel Terminations (Cont'd):

For Synchronous Optical Channel Service the high speed optical communication path is between the point of termination at the customer designated premises and the serving wire center of that premises.

ACCESS SERVICE

7. 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 made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the per mile cost for the transmission path which extends between the Telephone Company serving wire centers and/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., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

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7. 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 which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various 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 7.5 through 7.10 following.

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. F.C.C. TARIFF NO. 4, identifies serving wire centers, hub locations, hub level (i.e., Hub, Terminus Hub, Intermediate Hub, or Super-Intermediate Hub) and the type of bridging or multiplexing functions available. Additionally, subtending wire centers are identified for Intermediate and Super-Intermediate Hubs.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily 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 30 days.

(B) Daily Rates

Daily rates are recurring rates that apply to each 24-hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time use. For purposes of applying daily rates, the 24-hour period is not limited to a calendar day.

Part-time Video or Program Audio Service provided within a consecutive 30-day period will be charged the daily rate, not to exceed the monthly rate. For each day or partial day after a consecutive 30-day period of service, a charge equal to 1/30th of the monthly rate shall apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) 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 17.2.1 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.

(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 17.2.1 following will apply per order.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve 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 which result in a change of the minimum period requirement 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 is as set forth in 2.1.2(A) preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

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 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(s) will apply only for the location(s) that is being added. The charge(s) will be in addition to an Access Order Charge as set forth in 17.2.1 following.



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

- If the change involves the addition of an optional feature or function (with the exception of the addition of Clear Channel Capability to an existing service), 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 17.2.1 following will apply.
- When the Clear Channel Capability optional feature is installed on an existing facility, the addition will be treated as a discontinuance and start of service and all associated non-recurring charges will apply.

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.

(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. This charge is in addition to the Access Order Charge as specified in 17.2.1 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.3 Moves (Cont'd)

(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 part-time Video and Program Audio services and 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 2.4.1(F) preceding. The minimum service period for part-time Video and program Audio services is a continuous 24-hour period, not limited to a calendar day. The minimum service period for DS3 High Capacity service and Synchronous Optical Channel Service is twelve months.

ACCESS SERVICE

7. 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, always round up to the next whole mile before determining the mileage and applying the rates.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.5 Mileage Measurement (Cont'd)

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e.,

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

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

See the service configuration example for multipoint service as set forth in 7.1.3(B) preceding.

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, Program Audio, 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, hub level locations, hub level (i.e., Hub, Terminus Hub, Intermediate Hub, or Super-Intermediate Hub) and the type of multiplexing functions available. Additionally, subtending wire centers are identified for Intermediate and Super- Intermediate Hubs.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.6 Facility Hubs (Cont'd)

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from 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 that of 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 SERVICE

7. 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.

The Telephone Company will designate hubs for Program Audio and Video Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 17.1.5 and 17.1.6 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable. When the service is ordered to a hub, the customer may order full-time or part-time Video and Program Audio services as needed between that hub and additional customer designated premises. The rate elements required to provide the part-time service (i.e., Channel Termination, Channel Mileage and Optional Features and Functions, as applicable) will be billed at daily rates for the duration of the service requested.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.7 Mixed Use Analog and Digital High Capacity Services

Mixed use refers to a rate application applicable only when the customer orders High Capacity Special Access facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a Telephone Company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as mixed use.

Except as noted above, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the mixed-use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed-use facility.

When Special Access Service is provided utilizing a channel of the mixed-use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.7 Mixed Use Analog and Digital High Capacity Services  
(Cont'd)

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

Switched Access Service rates and charges, as set forth in 17.2 of Puerto Rico Telephone 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 charge, if applicable, will be reduced by multiplying its rate by the ratio of derived Switched Access Service channels to the total number of channels that can be derived. If the Telephone Company is providing Direct Trunked Transport, then the Direct Trunked Transport and Multiplexing Charges will be reduced by multiplying their respective rates by the ratio of derived Direct Trunked Transport channels to the total number of channels that can be derived.

The customer must place an order for each individual Switched or Special Access Service utilizing the Mixed-Use Facilities and specify the channel assignment for each such service.

7.2.8 High Capacity Optional Rate Plans

The Term Discount plan applies to Special Access DS1 and DS3 High Capacity Service Channel Termination, Channel Mileage Facility and Channel Mileage Termination monthly rates, as set forth following. The current monthly rates for such services are reduced by a fixed percentage. The amount of the discount percentage differs based on the length of the service commitment period selected by the customer. The Term Discount percentages for High Capacity Service are as set forth in 17.1.10 following.

Discounts for the Term Discount plan are only applied to High Capacity Service provided to a customer by the same Telephone Company.

High Capacity Optional Rate Plans are only available to those customers who have a pending order for service or have obtained this service prior to May 31, 1997. Optional Rate Plans will not be renewed.

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Puerto Rico Telephone Company  
1515 Roosevelt Avenue  
Guaynabo, Puerto Rico 00968



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7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

The minimum service period on a monthly rate basis is one month for DS1 service and twelve months for DS3 service.

(A) Term Discounts

DS1 and DS3 High Capacity Special Access Service may be ordered at the customer's option on a monthly rate basis or for Term Discount periods of 36 months (3 years), 60 months (5 years) or 120 months (10 years).

The minimum service period for all Term Discount plans is twelve months. The customer must specify the length of the service commitment period at the time the service is ordered.

For customers that subscribe to the Term Discount plan for 36 or 60 months, the Term Discount percentage as set forth in 17.1.10 following will be frozen from Company initiated decreases, for the entire discount period at the percent in effect at the beginning of the Term Discount period.

If a Term Discount Percentage increase occurs during the term of an existing Term Discount plan, the increased percentage will be applied automatically to the remainder of the current Term Discount period.

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount plan. If the customer does not make a choice by the end of the discount period, the rates will automatically convert to month-to-month service rates.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

To be included in a Service Term Discount plan, all eligible High Capacity rate elements must be ordered for the same commitment term (i.e., all 36 months or all 60 months) and with the same service date. When additional capacity is subsequently added, it will be available only on a month-to-month basis unless the discount period of the entire service is upgraded.

Eligible DS1 or DS3 High Capacity rate elements are those Channel Terminations, Channel Mileage Facility and Channel Mileage Terminations provided to a customer within the same state and LATA by the same Telephone Company. As long as the number of DS1s or DS3s included in a Term Discount plan remains constant, customer requests to install and disconnect DS1 or DS3 services, including changes affecting different wire centers and/or customer designated premises, will not change the current Term Discount period or the minimum service period, and Discontinuance of Service charges as set forth in (3) following will not apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

(1) Upgrades in Term Discounts

Services provided under monthly rates or Term Discount rates may be upgraded to a Term Discount plan at any time without incurring Channel Termination nonrecurring charges or discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term of the plan being upgraded. For example, a service with a 36-month commitment period may be upgraded to a new 36-month, or 60-month service period. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all High Capacity Service that is upgraded.

(2) Upgrades in Capacity (DS1 to DS3)

If the customer chooses to upgrade a service under the Term Discount rate plan to a higher capacity (i.e., DS1 to DS3), discontinuance charges will not apply, provided all the following conditions are met:

- the customer's order for the disconnect of the existing DS1 Service and the installation of the new DS3 Service are received at the same time and specifically reference the application of upgrade in capacity,
- the customer's disconnect order for the existing DS1 Service must reference the DS3 Service installation order.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

(2) Upgrades in Capacity (DS1 to DS3) (cont'd)

- the new service has a total voice equivalent channel capacity greater than the total voice equivalent channel capacity of the service being discontinued and,
- the new Term Discount period meets or exceeds the Term Discount period being discontinued.

A new minimum service period applies to all upgrades. Channel Termination nonrecurring charges for an equivalent channel capacity of the existing services being upgraded to the higher speed service will not be assessed. For example, 30 DS1 Services are being upgraded to DS3 Service. A capacity of 3 is installed at the customer's request. A total of 2 DS3 Channel rate elements will be installed without Channel Termination nonrecurring charges being assessed, as it will require 2 DS3 Channel rate elements to provide the equivalent channel capacity of the existing services. Channel Termination nonrecurring charges will not apply to the upgraded lower speed services placed on the higher speed service if requested at the same time as the upgrade request. Channel Termination nonrecurring charges will apply for capacity that exceeds the existing equivalent channel capacity.

Should the customer choose to upgrade either a portion of, or the entire DS1 Service under the Term Discount plan to a DS3 Service and move the service to a new customer location(s) within the same state and LATA, and when service is provided by the same telephone company, discontinuance charges will not apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

(3) Discontinuance of Service

If the customer chooses to disconnect all or a portion of the service prior to the expiration of the Term Discount period, discontinuance charges will apply to the portion of the service being discontinued.

Should the customer choose to discontinue a Term Discount plan prior to the completion of the minimum service period, discontinuance charges will apply. Discontinuance charges equal to one-hundred percent of the total undiscounted monthly rates, less any amounts previously paid, will apply for the minimum service period. Additionally, discontinuance charges of fifteen percent for DS1 service, and fifty percent for DS3 service, of the total undiscounted monthly charges will apply to the remaining portion of the discount service term.

Should the customer choose to discontinue service ordered under a Term Discount plan after the minimum service period but before the completion of the discount period, discontinuance charges will apply. Discontinuance charges of fifteen percent for DS1 Service, and fifty percent for DS3 Service, of the total undiscounted monthly charges will apply to the remaining portion of the discount period. For example, a customer has a DS1 Service which it chooses to discontinue after 33 months into a 60-month service term. The discontinuance charge would be 0.15 times 27 months times the undiscounted monthly rates for that service.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

B) DS3 Capacity Discounts

**Reserved For Future Use**

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.9 Synchronous Optical Channel Service Optional Rate Plan

The Synchronous Optical Channel Service Optional Rate Plan offers a Term Discount. The Term Discount applies to Channel Terminations, and Channel Mileage monthly rates, as set forth following. The Term Discount percentages for the Synchronous Optical Channel Service Term Discount are as set forth 17.1.10(C) following.

Discounts for the Synchronous Optical Channel Service Optional Rate Plan are only applied to Synchronous Optical Channel Service provided to a customer within the same state and LATA by the same Telephone Company.

OC12 Synchronous Optical Channel Service may be ordered at the customer's option on a monthly rate basis or for Term Discount periods of 36 months (3 years), 60 Months (5 years), or 120 Months (10 Years).

The minimum service period all services eligible for term discount plans is twelve (12) months. The customer must specify the length of the service commitment period at the time the service is ordered.

For customer that subscribe to the Term Discount plan for 36, 60, or 120 months, the Term Discount percentage as set forth in 17.1.10(C) following will be frozen from Company initiated decreases for the entire discount period at the percent in effect at the beginning of the Term Discount period.

If a Term Discount percentage increased occurs during the term of an existing Term Discount plan, the increased percentage will be applied automatically to the remainder of the current Term Discount period.

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount plan. If the customer does not make a choice by the end of the discount period, the rate will automatically convert to month-to-month service rates.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.9 Synchronous Optical Channel Service Optional Rate Plan  
(Cont'd)

To be included in a Term Discount plan, all eligible Synchronous Optical Channel Service rate elements must be ordered for the same commitment term (i.e., all 36 months, 60 months, or 120 months) and with the same service date.

Eligible OC12 Synchronous Optical Channel Service rate elements are Channel Termination, Channel Mileage Termination, and Channel Mileage Facility. As long as the number of OC12s included in a Term Discount plan remains constant, customer requests to install and disconnect OC12 services, including changes affecting different wire centers and/or customer designated premises, will not change the current Term Discount period or the minimum service period.

(A) Upgrades in Term Discounts

Services provided under monthly rates or Term Discount rates may be upgraded to a Term Discount plan at any time without incurring nonrecurring charges or discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term on the plan being upgraded. For example, a service with the 36-month commitment period may be upgraded to a new 36-month, 60-month, or 120-month service period. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all Synchronous Optical Channel Service that is upgraded.



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 Interstate Service Guide 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 irrespective of 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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.2 Application (Cont'd)

(B) (Cont'd)

- (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges 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.

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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.3 Exemption of Special Access Service (Cont'd)

- (B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date which 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 in the following example:

| <u>Special Access Service</u> | <u>Voice Grade Equivalent</u> | <u>Surcharge</u> | <u>Monthly Charge</u> |
|-------------------------------|-------------------------------|------------------|-----------------------|
| DS1                           | 24 x                          | \$25 =           | \$600.00              |

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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.4 Rate Regulations (Cont'd)

- (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 obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (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 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 SERVICE

7. Special Access Service (Cont'd)

7.4 Reserved for Future Use

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Telegraph Grade Service\*

7.5.1 Basic Channel Description

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 17.1.3 following.

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

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.

\*Not available for new installations

## ACCESS SERVICE

7. 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 as 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 17.1.4 following.

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(A) Central Office Bridging Capability (Cont'd)

- (5) Telemetry and Alarm Bridging
- Split Band, Active Bridging
- Passive Bridging
- Summation, Active Bridging

The rates for these options are set forth in 17.1.4(C) (1) following.

(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 17.1.4(C) (5) following.

(C) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. The rates for these options are set forth in 17.1.4(C) 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.



ACCESS SERVICE

7. 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)

(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 TR-TSY-000335.

(2) Improved Attenuation Distortion

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-TSY-000335. This option is available only when ordered in combination with C-Type Conditioning.

(3) Improved Envelope Delay Distortion

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-TSY-000335. This option is available only when ordered in combination with C-Type Conditioning.

ACCESS SERVICE

7. 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)

(4) 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 TR-TSY-000335. The rate for this option is set forth in 17.1.4(C) following.

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

(5) Reserved for Future Use

(6) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type network channel interfaces.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(D) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 17.1.4(C) (4) following.

(E) 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 TR-TSY-000335. The rate for this option is set forth in 17.1.4(C) (3) 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 TR-TSY-000335. The rate for this option is set forth in 17.1.4(C) (3) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(F) 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 17.1.4(C) (6) following.

The following network channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following network channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF. The signaling capability charge will not apply when used in the provision of WATS access service.

(G) Reserved for Future Use

(H) Reserved for Future Use

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(I) 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 17.1.4(C) (7) following.

(J) 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 17.1.4(A) 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)

(K) 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 dBrnc               |
| 51 to 100          | 37 dBrnc               |
| 101 to 200         | 40 dBrnc               |
| 201 to 400         | 43 dBrnc               |
| 401 to 1000        | 45 dBrnc               |

(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 Program Audio Service

7.7.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Program Audio Special Access services are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. 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 Program Audio Service are as set forth in 17.1.5 following.

7.7.2 Technical Specifications Packages and Network Channel Interfaces

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

7.7.3 Optional Features and Functions

(A) Central Office Bridging Capability

Distribution Amplifier

(B) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 dB  $\pm$  0.5 dB.

(C) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (An additional Program Audio channel must be ordered separately.)

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 Video Service

7.8.1 Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Rates and charges for Special Access Video Service are as set forth in 17.1.6 following.

7.8.2 Technical Specifications Packages and Network Channel Interfaces

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

The following network channel interfaces (NCIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

| <u>NCI</u> | <u>Audio<br/>Bandwidth</u> | <u>Provision</u>     |
|------------|----------------------------|----------------------|
| 2TV6-1     | 15kHz                      | 1 Channel, diplexed  |
| 2TV6-2     | 15kHz                      | 2 Channels, diplexed |
| 2TV7-1     | 15kHz                      | 1 Channel, diplexed  |
| 2TV7-2     | 15kHz                      | 2 Channels, diplexed |
| 4TV6-5     | 5kHz                       | 1 Channel, separate  |
| 4TV6-15    | 15kHz                      | 1 Channel, separate  |
| 4TV7-5     | 5kHz                       | 1 Channel, separate  |
| 4TV7-15    | 15kHz                      | 1 Channel, separate  |
| 6TV6-5     | 5kHz                       | 2 Channels, separate |
| 6TV6-15    | 15kHz                      | 2 Channels, separate |
| 6TV7-5     | 5kHz                       | 2 Channels, separate |
| 6TV7-15    | 15kHz                      | 2 Channels, separate |



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.9 Digital Data Service

7.9.1 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, 56.0 or 64.0\* 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 provided as either hubbed or non-hubbed services between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs. The hubs providing hubbed digital service and the wire centers providing non-hubbed digital service 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-type 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 PUB 62310.

Rates and charges for Special Access Digital Data Service are as set forth in 17.1.7 following.

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) (6) following.

\* When 64.0 Kbps service is multiplexed on a DS1 High Capacity service, the DS1 must be equipped to provide Clear Channel Capability.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.9 Digital Data Service (Cont'd)

7.9.2 Technical Specifications Packages and Network Channel Interfaces (Cont'd)

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

The Optional Features and Functions described in (A), (B), and (C) following are only available where Digital Data Service is provided via a hub.

(A) Central Office Bridging Capability

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.

(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.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 High Capacity Service

7.10.1 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 associated with the High Capacity channel at the customer's premises.

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

Rates and charges for Special Access High Capacity Service are as set forth in 17.1.8 following.

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) (7) following.

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)   |

\* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 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 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 SERVICE

7. 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) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(2) DS3 to DS1

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

(3) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(4) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(5) 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.

(6) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to twenty-three (23) 64.0 Kbps (T) channels utilizing digital time division multiplexing.

ACCESS SERVICE

7. 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 (Cont'd)

(7) 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) Clear Channel Capability (CCC)

- (1) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or over a 1.544 Mbps High Capacity channel derived from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of one and zero bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference TR-INS-000342.
- (2) CCC is provided, subject to availability of facilities, on DS1/1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed DS3/44.736 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels\* between a Telephone Company hub office and a customer designated premises. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.
- (3) The CCC optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity Service. The customer must agree to out-of-service periods required to add this feature to an existing High Capacity Service. The charges for the CCC optional feature are as set forth in 7.2.2(C) (3) preceding.

- Available only on a DS1-to-Digital multiplexed configuration.

ACCESS SERVICES

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 17.1.9 following.

7.11.A Ethernet Connectivity - 1 Gigabyte

This service provides the connectivity for 1 Gigabyte (1 GB) Ethernet circuit as requested by PRT Larga Distancia, Inc. in order to provide connectivity for the customer's call server equipment located in Bayamón to the customer's equipment located in Caparra for the provision of the customer's interstate voice and data services. The minimum service period is twelve (12) months.

The connection from the customer's call server equipment in Bayamón to the Caparra equipment will be at a speed of 1 GB. PRTC will install a node/switch at each location along with 16 port cards (1 GB) for use in this arrangement.

7.12 Synchronous Optical Channel Service

7.12.1 Basic Channel Description

A Synchronous Optical Channel Service channel provides dedicated transport utilizing Synchronous Optical Network (SONET) transmission standards. Synchronous Optical Channel Service provides optical network capability to customers requiring connections at transmission rates of 622.08 Mbps (OC12). Synchronous Optical Channel Service is provided between two or more customer designated premises (CDP) through one or more Telephone Company wire centers.

ACCESS SERVICES

7. Special Access Service (Cont'd)

7.12 Synchronous Optical Channel Service (Cont'd)

7.12.1 Basic Channel Description (Cont'd)

Each channel will be configured with one working and one protect fiber pair within the same sheath between the CDP and the serving wire center of the CDP which provides the redundancy to protect the customer's service. Should a failure occur, the SONET technology will automatically switch the customer's transmission to the dedicated protect fiber pair.

The customer may provide node and port equipment at the CDP which allows the high speed optical carrier channel to be converted to an electrical signal at a lower speed. The provision of such equipment by the customer is subject to compatibility with the Telephone Company's equipment in the serving wire center and must comply with the standards specified in GR-253-CORE.

Special engineering charges as set forth in in Section 17.2.2 or Special construction charges may apply when technical limitations and/or lack of facilities exist, or if it is necessary to construct facilities to satisfy service requests. If Special construction is required, the rates will be developed and agreed upon by the company and the customer.

Synchronous Optical Channel Service is available at the wire centers as identified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

Rate and Charges for Synchronous Optical Channel Service are set forth in Section 17.1.11.



ACCESS SERVICES

8. RESERVED FOR FUTURE USE

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ACCESS SERVICES

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

ACCESS SERVICE

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

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.

10.3 Facility Availability

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

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

10.4 Federal Government Regulations

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

ACCESS SERVICE

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

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 Interstate Service Guide.

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 Hz. 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

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

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

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

ACCESS SERVICE

10. 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)

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 SERVICE

10. 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 SERVICE

10. 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 bits per second.

(2) Wideband Secure Communications Type II

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

(3) Wideband Secure Communications Type III

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

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

10.5.2 Mileage Application

Mileage, when used for rate application between the serving wire centers of two customer designated premises, shall be determined by the V and 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 this section, are developed on an individual case basis and are set forth in 17.2.5 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 Interstate Service Guide.

10.6.3 Move Charges

- (A) When a service without a termination charge associated with that service, as set forth in 17.2.5 following, is moved to a different building, the nonrecurring charge applies; when moved to a new location in the same building, a charge of one-half of the nonrecurring charge applies.
- (B) When service with a termination charge associated with that service, as set forth in 17.2.5 following, is moved and 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.

ACCESS SERVICE

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

10.6 Rates and Charges (Cont'd)

10.6.3 Move Charges (Cont'd)

(B) (Cont'd)

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

ACCESS SERVICE

11. Special Facilities Routing of Access Services

11.1 Description

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

11.1.1 Diversity

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

11.1.2 Avoidance

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

11.1.3 Diversity and Avoidance 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.

Avoidance and Diversity are available on Telegraph Grade and Voice Grade Special Access Services as set forth respectively in 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.

ACCESS SERVICE

11. Special Facilities Routing of Access Services (Cont'd)

11.1 Description (Cont'd)

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

The rates and charges for Special Facilities Routing of Access Services are developed on an individual case basis. Such rates and charges for Special Facilities Routing of Access Services are as set forth in 17.2.6 following and are in addition to all other rates and charges that may be applicable for services provided under other sections of this Interstate Service Guide.

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 Interstate Service Guide.
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- The requested service or arrangements are provided within a LATA.
- The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

Rates and charges and additional regulations if applicable, for Specialized Service or Arrangements are provided on an Individual Case Basis and are as set forth in 17.2.7 following.

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services

13.1 addresses Additional Engineering. 13.2 addresses Additional Labor (which is comprised of Overtime Installation, Overtime Repair, Standby, Testing and Maintenance with Other Telephone Companies, and Other Labor). 13.3 addresses Miscellaneous Services (which are comprised of Testing Services, Maintenance of Service and Telecommunications Service Restoration Priority).

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.

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 as set forth in 17.2.2 following, 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 17.2.1(C) following, does not apply unless the customer authorizes the Telephone Company to proceed with the Design Change.

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that Additional Labor charges as set forth in 17.2.3 following will apply before any additional labor is undertaken. A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. When provisioning or restoring Telecommunications Service Priority services, the Telephone Company will, when possible, notify the customer of the applicability of these Additional Labor charges.

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 Standby

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

13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect other telephone companies is that which 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 that additional labor not included in 13.2.1 through 13.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this Interstate Service Guide.

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services

13.3.1 Testing Services

Testing Services offered under this section of the Interstate Service Guide are optional and subject to rates and charges as set forth in 17.2.4(A) following. A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. Other testing services, as described in 6.2.4 and 7.1.7 preceding, are provided by the Telephone Company in association with Special Access Services and are furnished at no additional charge.

Testing Services are normally provided by Telephone Company personnel at Telephone Company locations; however, provisions are made in (B) (2) following for a customer to request Telephone Company personnel to perform Testing Services at the customer designated premises.

The offering of Testing Services under this section of the Interstate Service Guide is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A) and (B) following.

(A) Reserved for Future Use



ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Reserved for Future Use

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Reserved for Future Use

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Reserved for Future Use

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Reserved for Future Use

ACCESS SERVICE

13. Additional Engineering, Additional Labor, 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

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(B) Special Access Service (Cont'd)

(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 times mutually agreed upon.

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Maintenance of Service

- (A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge as set forth in 17.4.3(A) following for the period of time from when Telephone Company personnel are dispatched, at the request of the customer, to the customer designated premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.
- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer designated premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

13.3.3 Telecommunications Service Priority - TSP

- (A) Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.

In addition, TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCSH 3-1-2) dated July 9, 1990, and "Telecommunications Service Priority System for National Security Emergency Preparedness Service User Manual" (NCSM 3-1-1)

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.3 Telecommunications Service Priority - TSP (Cont'd)

(A) (Cont'd)

The TSP System is a service, developed to meet the requirements of the Federal Government, as specified in the Service Vendor's Handbook and Service User's Manual which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications Special Access service. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

(B) A Telecommunications Service Priority charge applies as set forth in 17.2.4(B) when a request to provide or change a Telecommunications Service Priority is received subsequent to the issuance of an Access Order to install the service.

Additionally, a Miscellaneous Service Order Charge as set forth in 17.2.1(D) will apply to Telecommunications Service Priority requests that are ordered subsequent to the initial installation of the associated access service.

A Telecommunications Service Priority charge does not apply when a Telecommunications Service Priority is discontinued or when ordered coincident with an Access Order to install or change service.

In addition, Additional Labor rates as set forth in 17.2.3 may be applicable when provisioning or restoring Special Access Service with Telecommunications Service Priority.

When the customer requests an audit or a reconciliation of the Telephone Company's Telecommunications Service Priority records, a Miscellaneous Service Order Charge as set forth in 17.2.1(D) and Additional Labor rates as set forth in 17.2.3 are applicable.



ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Miscellaneous Equipment

(A) Controller Arrangement

This arrangement enables the customer to control up to 48 transfer functions at a Telephone Company central office via a remote keyboard terminal capable of either 300 or 1200 bps operation. Included as part of the Controller Arrangement is a dial-up data station located at the Telephone Company Central Office to provide access to the Controller Arrangement. This dial-up data station consists of a 212A DATAPHONE data set and an appropriate Telephone Company provided channel.

The Controller Arrangement must be located in the same Telephone Company central office as the transfer functions which it controls.

Charges for the Controller Arrangement are set forth in 17.2.4(C) following.

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.5 Reserved for Future Use

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ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.6 Reserved for Future Use

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Puerto Rico Telephone Company  
1515 Roosevelt Avenue  
Guaynabo, Puerto Rico 00968

ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.7 Reserved for Future Use

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ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.8 Reserved for Future Use

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ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.9 Reserved for Future Use

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ACCESS SERVICE

13. Additional Engineering, Additional Labor, Miscellaneous Services (Cont'd)

13.10 Reserved for Future Use

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Guaynabo, Puerto Rico 00968

ACCESS SERVICE

13. Additional Engineering, Additional Labor And Miscellaneous Services (Cont'd)

13.11 Reserved for Future Use



ACCESS SERVICE

13. Additional Engineering, Additional Labor And Miscellaneous Services (Cont'd)

13.12 Reserved for Future Use

ACCESS SERVICE

14. Exceptions to Access Service Offerings

The services offered under the provisions of this Interstate Service Guide are subject to availability as set forth in 2.1.4 preceding. In addition, the following exceptions apply:

(Paragraphs 14.1 through 14.5 following are reserved for future listings as a result of a subsequent survey. In the meantime, in planning an end-to-end service, the customer should contact the Telephone Company in each customer designated premises city to assure itself that all of the service or service components required for a given customer service are currently available.)

14.1 The following service(s) is (are) not offered in the operating territory of listed Issuing Carriers.

(Reserved for future use.)

14.2 The following offering(s) is (are) limited to existing locations. No inside moves, rearrangements or additions will be permitted.

(Reserved for future use.)

14.3 The following offering(s) is (are) limited to existing locations. Inside moves or rearrangements may be undertaken. However, no additions will be permitted.

(Reserved for future use.)

14.4 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. Inside moves or rearrangements may be undertaken.

(Reserved for future use.)

14.5 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. However inside moves or rearrangements will not be permitted.

(Reserved for future use.)

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications

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

15.1 Reserved for Future Use

ACCESS SERVICE

15. 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 3 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.

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

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

Lastly, 15.2.2(C) following provides a list of compatible Network Channel Interfaces inasmuch as the Network Channel Interfaces associated with a given service need not always be the same, but all must be compatible.

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 SERVICE

15. 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

The preceding three examples use information contained in Special Report SR-ST5-000307.

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

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) 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)

(B) Technical Specifications Packages Telegraph Grade Service

| SD Code<br>NC Code                         | TGC*<br>NQ | Package   |           |
|--------------------------------------------|------------|-----------|-----------|
|                                            |            | TG1<br>NW | TG2<br>NY |
| <u>Parameter</u>                           |            |           |           |
| Telegraph Distortion                       | X          | X         | X         |
| <u>Optional Features<br/>and Functions</u> |            |           |           |
| 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

| SD Code<br>NC Code | Package VG- |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | C*          | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | W         |
|                    | <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> |
| <u>Parameter</u>   |             |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Attenuation        |             |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Distortion         | X           | 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         | X         |
| Echo Control       | X           | X         | 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         | X         |
| Intermodulation    |             |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Distortion         | X           |           |           |           |           |           | X         | X         | X         | X         | X         | X         |           | X         |
| Loss Deviation     | X           | 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         | 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-TSY-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<br>(Cont'd) |             |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------------------------------|-------------------------------------------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                            |                                                                   | Package VG- |           |           |           |           |           |           |           |           |           |           |           |           |
| SD Code                                    | C*                                                                | 1           | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | W         |
| 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> |
| <u>Optional Features<br/>and Functions</u> |                                                                   |             |           |           |           |           |           |           |           |           |           |           |           |           |
| 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         |           |
| 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         |           |

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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) Technical Specifications Packages Program Audio Service

|                                                  | SD Code<br>NC Code | APC*<br><u>PQ</u> | <u>AP1</u><br><u>PE</u> | Package                 |                         |                         |
|--------------------------------------------------|--------------------|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                                                  |                    |                   |                         | <u>AP2</u><br><u>PF</u> | <u>AP3</u><br><u>PJ</u> | <u>AP4</u><br><u>PK</u> |
|                                                  |                    |                   |                         | <u>Parameter</u>        |                         |                         |
| Actual Measured Loss                             |                    | X                 | X                       | X                       | X                       | X                       |
| Amplitude Tracking                               |                    | X                 |                         |                         |                         |                         |
| Crosstalk                                        |                    | X                 | X                       | X                       | X                       | X                       |
| Distortion Tracking                              |                    | X                 |                         |                         |                         |                         |
| Gain/Frequency                                   |                    |                   |                         |                         |                         |                         |
| Distortion                                       |                    | X                 | X                       | X                       | X                       | X                       |
| Group Delay                                      |                    | X                 |                         |                         |                         |                         |
| Noise                                            |                    | X                 | X                       | X                       | X                       | X                       |
| Phrase Tracking                                  |                    | X                 |                         |                         |                         |                         |
| Short-Term Gain                                  |                    |                   |                         |                         |                         |                         |
| Stability                                        |                    | X                 |                         |                         |                         |                         |
| Short-Term Loss                                  |                    | X                 |                         |                         |                         |                         |
| Total Distortion                                 |                    | X                 | X                       | X                       | X                       | X                       |
| <u>Optional Features</u><br><u>and Functions</u> |                    |                   |                         |                         |                         |                         |
| Central Office Bridging                          |                    |                   |                         |                         |                         |                         |
| Capability                                       |                    | X                 | X                       | X                       | X                       | X                       |
| Gain Conditioning                                |                    | X                 | X                       | X                       | X                       | X                       |
| Stereo                                           |                    | X                 |                         |                         |                         | X                       |

The technical specifications are described in Technical Reference TR-NPL-000337 and associated Addendum.

- \* 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)

(E) Technical Specifications Packages Video Service

|                                       | SD Code<br>NC Code | Package   |           |           |
|---------------------------------------|--------------------|-----------|-----------|-----------|
|                                       |                    | TVC*      | TV1       | TV2       |
|                                       |                    | <u>TQ</u> | <u>TV</u> | <u>TW</u> |
| <u>Video Parameters</u>               |                    |           |           |           |
| Insertion Gain                        |                    | X         | X         | X         |
| Field-Time Distortion                 |                    | X         | X         | X         |
| Line-Time Distortion                  |                    | X         | X         | X         |
| Short-Time Distortion                 |                    | X         | X         | X         |
| Chrominance-Luminance Gain            |                    |           |           |           |
| Inequality                            |                    | X         | X         | X         |
| Chrominance-Luminance Delay           |                    |           |           |           |
| Inequality                            |                    | X         | X         | X         |
| Amplitude/Frequency Characteristic    |                    | X         | X         | X         |
| Luminance Non-Linear Distortion       |                    | X         | X         | X         |
| Chrominance Non-Linear Gain           |                    |           |           |           |
| Distortion                            |                    | X         | X         | X         |
| Chrominance Non-Linear Phase          |                    |           |           |           |
| Distortion                            |                    | X         | X         | X         |
| Transient Synchronizing Signal        |                    |           |           |           |
| Non-Linearty                          |                    | X         | X         | X         |
| Dynamic Gain Distortion               |                    |           |           |           |
| - Picture Signal                      |                    | X         | X         | X         |
| - Synchronizing Signal                |                    | X         | X         | X         |
| Differential Gain                     |                    | X         | X         | X         |
| Differential Phase                    |                    | X         | X         | X         |
| Chrominance-Luminance Intermodulation |                    | X         | X         | X         |

\* 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)

(E) Technical Specifications Packages Video Service  
(Cont'd)

|                                      | SD Code<br>NC Code | TVC*<br><u>TQ</u> | Package    |            |
|--------------------------------------|--------------------|-------------------|------------|------------|
|                                      |                    |                   | <u>TV1</u> | <u>TV2</u> |
|                                      |                    |                   | <u>TV</u>  | <u>TW</u>  |
| <u>Audio Channel Parameters</u>      |                    |                   |            |            |
| <u>Associated with Video Service</u> |                    |                   |            |            |
| Insertion Gain                       |                    | X                 | X          | X          |
| Amplitude/Frequency Characteristic   |                    | X                 | X          | X          |
| Total Harmonic Distortion & Noise    |                    | X                 | X          | X          |
| Maximum Steady-State Test Levels     |                    | X                 | X          | X          |
| Gain Differential Between Channels   |                    | X                 | X          |            |
| Phase Differential Between Channels  |                    | X                 | X          |            |
| Crosstalk                            |                    | X                 | X          | X          |
| Audio-To-Video Time Differential     |                    | X                 | X          | X          |

The technical specifications are described in  
Technical Reference TR-NPL-000338.

\* 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)

(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> |
| <u>Parameter</u>                                  |         |                |           |           |           |           |           |
| Error-Free Seconds                                |         | X              | X         | X         | X         | X         | X         |
| <u>Optional Features<br/>and Functions/Hubbed</u> |         |                |           |           |           |           |           |
| 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 TR-NWT-000341.

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

|                                        |                | <u>Package</u> |            |             |            |            |            |
|----------------------------------------|----------------|----------------|------------|-------------|------------|------------|------------|
|                                        | <u>SD Code</u> | <u>HC0</u>     | <u>HC1</u> | <u>HC1C</u> | <u>HC2</u> | <u>HC3</u> | <u>HC4</u> |
|                                        | <u>NC Code</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.

\* Available only on a channel of 1.544 Mbps facility to a Telephone Company Hub.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes

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 15.2.1 preceding.



## 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
Parameter

| <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                          |
| - 15A       |               | 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 (McCulloch format)                                                |
| - 2         |               | Telephone Company energized alarm channel                                                                         |
| - 3         |               | Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud) |
| DD -        |               | DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination                                |
| DE -        |               | DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination                 |

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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>                                                                                          |
|-------------|---------------|------------------------------------------------------------------------------------------------------------|
| DS          | -             | digital hierarchy interface                                                                                |
|             | - 15          | 1.544 Mbps (DS1) format per PUB 62411 plus D4                                                              |
|             | - 15E         | 8-bit PCM encoded in one 64 kbps of the DS1 signal                                                         |
|             | - 15F         | 8-bit PCM encoded in two 64 kbps of the DS1 signal                                                         |
|             | - 15G         | 8-bit PCM encoded in three 64 kbps of the DS1 signal                                                       |
|             | - 15H         | 14/11-bit PCM encoded in six 64 kbps of the DS1 signal                                                     |
|             | - 15J         | 1.544 Mbps format per PUB 62411                                                                            |
|             | - 15K         | 1.544 Mbps format per PUB 62411 plus extended framing format                                               |
|             | - 15L         | 1.544 Mbps (DS1) with SF signaling                                                                         |
|             | - 27          | 274.176 Mbps (DS4)                                                                                         |
|             | - 27L         | 274.176 Mbps (DS4) with SF signaling                                                                       |
|             | - 31          | 3.152 Mbps (DS1C)                                                                                          |
|             | - 31L         | 3.152 Mbps (DS1C) with SF signaling                                                                        |
|             | - 44          | 44.736 Mbps (DS3)                                                                                          |
|             | - 44L         | 44.736 Mbps (DS3) with SF signaling                                                                        |
|             | - 63          | 6.312 Mbps (DS2)                                                                                           |
|             | - 63L         | 6.312 Mbps (DS2) with SF signaling                                                                         |
| DU          | -             | digital access interface                                                                                   |
|             | - 24          | 2.4 kbps                                                                                                   |
|             | - 48          | 4.8 kbps                                                                                                   |
|             | - 19          | 19.2 kbps                                                                                                  |
|             | - 56          | 56.0 kbps                                                                                                  |
|             | - 96          | 9.6 kbps                                                                                                   |
|             | - 64          | 64.0 kbps                                                                                                  |
|             | - A           | 1.544 Mbps format per PUB 62411                                                                            |
|             | - B           | 1.544 Mbps format per PUB 62411 plus D4                                                                    |
|             | - C           | 1.544 Mbps format per PUB 62411 plus extended framing format                                               |
|             | - 1KN         | 1.544 Mbps ANSI Extended Superframe (ESF) Format without line power                                        |
|             | - 1SN         | 1.544 Mbps ANSI Extended Superframe (ESF) Format with B8ZS Clear Channel Capability and without line power |
|             | - AN          | 1.544 Mbps free-framing format without line power (only avail. to U.S. Govt. agencies)                     |
|             | - BN          | 1.544 Mbps Superframe (SF) Format without line power                                                       |
|             | - DN          | 1.544 Mbps Superframe (SF) Format with B8ZS Clear Channel Capability without line power                    |

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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>                                                                                                             |
|-------------|---------------|-------------------------------------------------------------------------------------------------------------------------------|
| DX -        |               | duplex signaling interface at customer's point of termination                                                                 |
| DY -        |               | duplex signaling interface at customer's end user's point of termination                                                      |
| EA -        | E             | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.                                |
| EA -        | M             | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.                                |
| EB -        | E             | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.                               |
| EB -        | M             | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.                               |
| EC -        |               | Type III E&M signaling at customer POT                                                                                        |
| EX -        | A             | tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.      |
| EX -        | B             | tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions. |
| GO -        |               | ground start loop signaling - open end function by customer or customer's end user                                            |
| 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                                           |

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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>                                                                                   |
|-------------|---------------|-----------------------------------------------------------------------------------------------------|
| 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 function by customer or customer's end user |
| SF -        |               | single frequency signaling with VF band at either customer POT or customer's end user POT           |
| TF -        |               | telephotograph interface                                                                            |
| TT -        |               | telegraph/teletypewriter interface at either customer POT or customer's end user POT                |
|             | - 2           | 20.0 milliamperes                                                                                   |
|             | - 3           | 3.0 milliamperes                                                                                    |
|             | - 6           | 62.5 milliamperes                                                                                   |
| TV -        |               | television interface                                                                                |
|             | - 1           | combined (diplexed) video and one audio signal                                                      |
|             | - 2           | combined (diplexed) video and two audio signals                                                     |
|             | - 5           | video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire                              |
|             | - 15          | video plus one (or two) audio 15 kHz signal(s)                                                      |

\* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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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)

(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.

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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) Reserved for Future Use

(2) Telegraph Grade

| <u>Compatible CIs</u> |        | <u>Compatible CIs</u> |        |
|-----------------------|--------|-----------------------|--------|
| 2DB2-10               | 10IA8  | 4DB2-10               | 10IA8  |
|                       | 2TT2-2 |                       | 2TT2-2 |
|                       | 4TT2-2 |                       | 4TT2-2 |
| 2DB2-43*              | 10IA8  | 4DB2-43*              | 10IA8  |
|                       | 2TT2-2 |                       | 2TT2-6 |
|                       | 2TT2-6 |                       | 4TT2-2 |
|                       | 4TT2-2 |                       |        |
| 2TT2-2                | 2TT2-2 | 4DS8-                 | 10IA8  |
|                       |        | 2TT2-2                |        |
|                       |        |                       | 2TT2-6 |
| 2TT2-3                | 2TT2-2 | 4TT2-2                |        |
|                       | 4TT2-2 | 4TT2-6                |        |
| 2TT2-6                | 2TT2-6 | 4TT2-2                | 4TT2-2 |
|                       | 4TT2-6 |                       |        |
|                       |        | 4TT2-6                | 2TT2-6 |

\* Supplemental Channel Assignment information required.

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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 | 2GS2GS                |      | 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   |                       |      |                       |      |

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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 |                       | 2GO3   |                       | 4PR2   |
|                       |      |                       | 2GS2   |                       | 4RV2-T |
| 4DB2                  | 2DA2 |                       | 2GS3   |                       | 4SF2   |
|                       | 2NO2 |                       | 2LA2   |                       | 4SF3   |
|                       | 2PR2 |                       | 2LB2   |                       | 4TF2   |
|                       | 4DA2 |                       | 2LC2   |                       | 6DA2   |
|                       | 4DB2 |                       | 2LO2   |                       | 6DY2   |
|                       | 4NO2 |                       | 2LO3   |                       | 6DY3   |
|                       | 4PR2 |                       | 2LR2   |                       | 6EA2-E |
|                       | 6DA2 |                       | 2LS2   |                       | 6EA2-M |
|                       |      |                       | 2LS3   |                       | 6EB2-E |
| 4DD3                  | 2DE2 |                       | 2NO2   |                       | 6EB2-M |
|                       | 4DE2 |                       | 2PR2   |                       | 6GS2   |
|                       |      |                       | 2RV2-T |                       | 6LS2   |
|                       |      |                       | 2TF2   |                       | 8EB2-E |
|                       |      |                       | 4AC2   |                       | 8EB2-M |
|                       |      |                       | 4DA2   |                       | 9DY2   |
|                       |      |                       | 4DE2   |                       | 9DY3   |
|                       |      |                       | 4DX2   |                       | 9EA2   |
|                       |      |                       | 4DX3   |                       | 9EA3   |
|                       |      |                       | 4DY2   |                       |        |
|                       |      |                       | 4EA2-E |                       |        |
|                       |      |                       | 4EA2-M |                       |        |

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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> |        |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 4DX2                  | 2DY2   | 4DX2                  | 8EB2-E | 4DX3                  | 6DY2   |
|                       | 2LA2   |                       | 8EB2-M |                       | 6DY3   |
|                       | 2LB2   |                       | 9DY2   |                       | 6EA2-E |
|                       | 2LC2   |                       | 9DY3   |                       | 6EA2-M |
|                       | 2LO3   |                       | 9EA2   |                       | 6EB2-E |
|                       | 2LS2   |                       | 9EA3   |                       | 6EB2-M |
|                       | 2LS3   |                       |        |                       | 6LS2   |
|                       | 2RV2-T | 4DX3                  | 2DY2   |                       | 8EB2-E |
|                       | 4DX2   |                       | 2LA2   |                       | 8EB2-M |
|                       | 4DY2   |                       | 2LB2   |                       | 9DY2   |
|                       | 4EA2-E |                       | 2LC2   |                       | 9DY3   |
|                       | 4EA2-M |                       | 2LO3   |                       | 9EA2   |
|                       | 4LS2   |                       | 2LS2   |                       | 9EA3   |
|                       | 4RV2-T |                       | 2LS3   |                       |        |
|                       | 4SF2   |                       | 2RV2-T | 4DY2                  | 2DY2   |
|                       | 4SF3   |                       | 4DX2   |                       | 4DY2   |
|                       | 6DY2   |                       | 4DX3   |                       |        |
|                       | 6DY3   |                       | 4DY2   |                       |        |
|                       | 6EA2-E |                       | 4EA2-E |                       |        |
|                       | 6EA2-M |                       | 4EA2-M |                       |        |
|                       | 6EB2-E |                       | 4LS2   |                       |        |
|                       | 6EB2-M |                       | 4RV2-T |                       |        |
|                       | 6LS2   |                       | 4SF2   |                       |        |
|                       |        |                       | 4SF3   |                       |        |

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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> |      |
|-----------------------|--------|-----------------------|--------|-----------------------|------|
| 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 | 4GO3                  | 2GO2 |
|                       | 6EB2-M |                       | 6EA2-M |                       | 2GS2 |
|                       | 8EB2-E |                       | 6EB2-E |                       | 2GS3 |
|                       | 8EB2-M |                       | 6EB2-M |                       | 2GS3 |
|                       | 9DY2   |                       | 8EB2-E |                       | 4GS2 |
|                       | 9DY3   |                       | 8EB2-M |                       | 4SF2 |
|                       |        |                       | 9DY2   |                       | 6GS2 |
|                       |        |                       | 9DY3   |                       |      |
| 4EA2-M                | 2DY2   |                       | 9EA2   | 4GS                   | 2GS  |
|                       | 4DY2   |                       | 9EA3   |                       | 2LS  |
|                       | 4EA2-M |                       |        |                       | 4GS  |
|                       | 4SF2   |                       |        |                       | 4LS  |
|                       | 6DY2   |                       |        |                       |      |
|                       | 6DY3   |                       |        |                       |      |
|                       | 6EB2-E |                       |        |                       |      |
|                       | 6EB2-M |                       |        |                       |      |
|                       | 8EB2-E |                       |        |                       |      |
|                       | 8EB2-M |                       |        |                       |      |
|                       | 9DY2   |                       |        |                       |      |
|                       | 9DY3   |                       |        |                       |      |

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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> |        |
|-----------------------|------|-----------------------|--------|-----------------------|--------|
| 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   |
| 4LS2                  | 2LA2 |                       | 2LB2   |                       |        |
|                       | 2LB2 |                       | 2LC2   |                       |        |
|                       | 2LC2 |                       |        |                       |        |
|                       | 2LO2 |                       |        |                       |        |
|                       | 2LO3 |                       |        |                       |        |

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1515 Roosevelt Avenue  
Guaynabo, Puerto Rico 00968

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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                  | 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   |
| 4TF2                  |        | 6DY2                  | 2DY2   |                       | 4SF3   |
|                       | 2TF2   |                       | 4DY2   |                       | 6DY2   |
|                       | 4TF2   |                       | 6DY2   |                       | 6DY3   |
|                       |        |                       |        |                       | 6EA2-E |
|                       |        |                       |        |                       | 6EA2-M |

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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> |        |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 6EA2-E                | 6EB2-E | 6EA2-M                | 6DY2   | 6EB3-E                | 2DY2   |
|                       | 6EB2-M |                       | 6DY3   |                       | 4DY2   |
|                       | 6LS2   |                       | 6EA2-M |                       | 4EA2-E |
|                       | 8EB2-E |                       | 6EB2-E |                       | 4EA2-M |
|                       | 8EB2-M |                       | 6EB2-M |                       | 4SF2   |
|                       | 9DY2   |                       | 6LS2   |                       | 6DY2   |
|                       | 9DY3   |                       | 8EB2-E |                       | 6DY3   |
|                       |        |                       | 8EB2-M |                       | 6EA2-E |
| 6EA2-M                | 2AC2   |                       | 9DY2   |                       | 6EA2-M |
|                       | 2DY2   |                       | 9DY3   |                       | 8EB2-E |
|                       | 2LA2   |                       |        |                       | 8EB2-M |
|                       | 2LB2   | 6EB2-E                | 2DY2   |                       | 9DY2   |
|                       | 2LC2   |                       | 4DY2   |                       | 9DY3   |
|                       | 2LO3   |                       | 4SF2   |                       | 9EA2   |
|                       | 2LS2   |                       | 6DY2   |                       | 9EA3   |
|                       | 2LS3   |                       | 6DY3   |                       |        |
|                       | 2RV2-T |                       | 6EB2-E | 6EX2-A                | 2GS2   |
|                       | 4AC2   |                       | 6EB2-M |                       | 2GS3   |
|                       | 4DY2   |                       | 9DY2   |                       | 2LS2   |
|                       | 4EA2-E |                       | 9DY3   |                       | 2LS3   |
|                       | 4EA2-M |                       |        |                       | 4GS2   |
|                       | 4LS2   | 6EB2-M                | 2DY2   |                       | 4LS2   |
|                       | 4RV2-T |                       | 4DY2   |                       | 4SF2   |
|                       | 4SF2   |                       | 4SF2   |                       | 6GS2   |
|                       | 4SF3   |                       | 6DY2   |                       | 6LS2   |
|                       |        |                       | 6DY3   |                       |        |
|                       |        |                       | 6EB2-M |                       |        |
|                       |        |                       | 9DY2   |                       |        |
|                       |        |                       | 9DY3   |                       |        |

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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> |        |
|-----------------------|------|-----------------------|--------|-----------------------|--------|
| 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   |
| 6LO2                  | 2LS2 |                       | 6DY3   |                       | 6DY3   |
|                       | 2LS3 |                       | 6EB2-E |                       | 6EB2-E |
|                       | 4LS2 |                       | 6EB2-M |                       | 6EB2-M |
|                       | 4SF2 |                       | 6LS2   |                       | 6LS2   |
|                       | 6LS2 |                       | 8EB2-E |                       | 8EB2-M |
|                       |      |                       | 8EB2-M |                       | 9DY2   |
| 6LS2                  | 2LA2 |                       | 9DY2   |                       | 9DY3   |
|                       | 2LB2 |                       | 9DY3   |                       |        |
|                       | 2LC2 |                       |        |                       |        |
|                       | 2LO2 |                       |        |                       |        |
|                       | 2LO3 |                       |        |                       |        |
|                       | 4SF2 |                       |        |                       |        |

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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> |        |
|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 8EC2                  | 2DY2   | 9DY2                  | 2DY2   | 9EA3                  | 2DY2   |
|                       | 4DY2   |                       | 4DY2   |                       | 4DY2   |
|                       | 4EA2-E |                       | 6DY2   |                       | 4EA2-E |
|                       | 4EA2-M |                       | 6DY3   |                       | 4EA2-M |
|                       | 4SF2   |                       | 9DY2   |                       | 6DY2   |
|                       | 6DY2   |                       |        |                       | 6DY3   |
|                       | 6DY3   | 9DY3                  | 2DY2   |                       | 6EA2-E |
|                       | 6EA2-E |                       | 4DY2   |                       | 6EA2-M |
|                       | 6EA2-M |                       | 6DY2   |                       | 6EB2-E |
|                       | 6EB2-E |                       | 6DY3   |                       | 6EB2-M |
|                       | 6EB2-M |                       | 9DY2   |                       | 8EB2-E |
|                       | 8EB2-E |                       | 9DY3   |                       | 8EB2-M |
|                       | 8EB2-M |                       |        |                       | 9DY2   |
|                       | 9DY2   | 9EA2                  | 2DY2   |                       | 9DY3   |
|                       | 9DY3   |                       | 4DY2   |                       | 9EA3   |
|                       | 9EA2   |                       | 4EA2-E |                       |        |
|                       | 9EA3   |                       | 4EA2-M |                       |        |
|                       |        |                       | 6DY2   |                       |        |
|                       |        |                       | 6DY3   |                       |        |
|                       |        |                       | 6EA2-E |                       |        |
|                       |        |                       | 6EA2-M |                       |        |
|                       |        |                       | 6EB2-E |                       |        |
|                       |        |                       | 6EB2-M |                       |        |
|                       |        |                       | 8EB2-E |                       |        |
|                       |        |                       | 8EB2-M |                       |        |
|                       |        |                       | 9DY2   |                       |        |
|                       |        |                       | 9DY3   |                       |        |
|                       |        |                       | 9EA2   |                       |        |
|                       |        |                       | 9EA3   |                       |        |

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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) Program Audio

| <u>Compatible CIs</u> |                  | <u>Compatible CIs</u> |                  |
|-----------------------|------------------|-----------------------|------------------|
| 2PG2-1                | 2PG1-1<br>2PG2-1 | 4DS8-15E              | 2PG1-3<br>2PG2-3 |
| 2PG2-3                | 2PG1-3<br>2PG2-3 | 4DS8-15F              | 2PG1-5<br>2PG2-5 |
| 2PG2-5                | 2PG1-5<br>2PG2-5 | 4DS8-15G              | 2PG1-8<br>2PG2-8 |
| 2PG2-8                | 2PG1-8<br>2PG2-8 | 4DA8-15H              | 2PG1-1<br>2PG2-1 |



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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) Video

| <u>Compatible CIs</u> |                    | <u>Compatible CIs</u> |                    |
|-----------------------|--------------------|-----------------------|--------------------|
| 2TV6-1                | 4TV6-15<br>4TV7-15 | 4TV7-5                | 4TV6-5<br>4TV7-5   |
| 2TV6-2                | 6TV6-15<br>6TV7-15 | 4TV7-15               | 4TV6-15<br>4TV7-15 |
| 2TV7-1                | 4TV6-15<br>4TV7-15 | 6TV6-5                | 6TV6-5<br>6TV7-5   |
| 2TV7-2                | 6TV6-15<br>6TV7-15 | 6TV6-15               | 6TV6-15<br>6TV7-15 |
| 4TV6-5                | 4TV6-5<br>4TV7-5   | 6TV7-5                | 6TV6-5<br>6TV7-5   |
| 4TV6-15               | 4TV6-15<br>4TV7-15 | 6TV7-15               | 6TV6-15<br>6TV7-15 |

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)

(6) Digital Data

| <u>Compatible CIs</u> |          | <u>Compatible CIs</u> |         | <u>Compatible CIs</u> |         |
|-----------------------|----------|-----------------------|---------|-----------------------|---------|
| 4DS8-15               | 4DS8-15+ | 4DU5-24               | 4DU5-24 | 6DU5-24               | 6DU5-24 |
|                       | 4DU5-24  |                       |         |                       |         |
|                       | 4DU5-48  | 4DU5-48               | 4DU5-48 | 6DU5-48               | 6DU5-48 |
|                       | 4DU5-56  |                       |         |                       |         |
|                       | 4DU5-96  | 4DU5-96               | 4DU5-96 | 6DU5-56               | 6DU5-56 |
|                       | 6DU5-24  |                       |         |                       |         |
|                       | 6DU5-48  | 4DU8-56               | 4DU5-56 | 6DU5-96               | 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)

(7) High Capacity

| <u>Compatible CIs</u> |                                           | <u>Compatible CIs</u> |                                           |
|-----------------------|-------------------------------------------|-----------------------|-------------------------------------------|
| 4DS0-63               | 4DS0-63<br>4DU8-A,B or C<br>6DU8-A,B or C | 4DS8-15J              | 4DU8-A<br>6DU8-A                          |
| 4DS6-27               | 4DS6-27<br>4DU8-A,B or C<br>6DU8-A,B or C | 4DS8-15K              | 4DU8-B<br>4DU8-C<br>6DU8-B<br>6DU8-C      |
| 4DS6-44               | 4DS6-44<br>4DU8-A,B or C<br>6DU8-A,B or C | 4DS8-31               | 4DS8-31<br>4DU8-A,B or C<br>6DU8-A,B or C |
| 4DS8-15               | 4DS8-15+<br>4DU8-B<br>6DU8-8              |                       | 4DU8-A, B or C<br>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.

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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)

(7) High Capacity

| <u>Compatible CIs</u> |                                             | <u>Compatible CIs</u> |                                             |
|-----------------------|---------------------------------------------|-----------------------|---------------------------------------------|
| 4DS0-63               | 4DS0-63<br>4DU8-A, B or C<br>6DU8-A, B or C | 4DS8-15J              | 4DU8-A<br>6DU8-A                            |
| 4DS6-27               | 4DS6-27<br>4DU8-A, B or C<br>6DU8-A, B or C | 4DS8-15K              | 4DU8-B<br>4DU8-C<br>6DU8-B<br>6DU8-C        |
| 4DS6-44               | 4DS6-44<br>4DU8-A, B or C<br>6DU8-A, B or C | 4DS8-31               | 4DS8-31<br>4DU8-A, B or C<br>6DU8-A, B or C |
| 4DS8-15               | 4DS8-15+<br>4DU8-B<br>6DU8-8                | 4DU8-A, B<br>or C     | 4DU8-A, B or C                              |

(8) Synchronous Optical Channel Service

| <u>Compatible CIs</u> |         | <u>Compatible CIs</u> |        |
|-----------------------|---------|-----------------------|--------|
| 4DS9-1S               | 4DU9-1S | 2SOF-A                | 2SOF-A |
| 4DS9-1K               | 4DU9-1K | 2SOF-B                | 2SOF-B |
|                       |         | 2SOF-C                | 2SOF-C |
|                       |         | 2SOF-D                | 2SOF-D |
|                       |         | 2SOF-E                | 2SOF-E |
|                       |         | 2SOF-F                | 2SOF-F |

+ Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

ACCESS SERVICE

16. Package Data Services

16.1 Frame Relay Composite Service (FRCS)

16.1.1 General

Frame Relay Composite Service (FRCS) is a medium-speed, connection-oriented packet-switched data service that allows for the interconnection of Area Networks (LANs) or other compatible customer premises equipment for the purpose of connecting to an Interstate frame relay network. The terminal equipment accumulates the customer data and puts it into a frame relay format suitable for transmission over the Frame Relay network. This terminal equipment must conform to American National Standards Institute and Telecommunication Standardization Bureau of the International Telecommunication Union (ITU- T), formerly Committee Consultant de International Telegraphique et Telephonique (CCITT), standards.

FRCS permits customers to share network bandwidth for data transmissions.

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.

16.1.2 Service Description

FRCS 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 an address that specifies the permanent virtual connection. Addresses are read by the network processor and the frames are relayed to the pre-assigned destination.

FRCS is available to customers within the LATA served by the Telephone Company and is provisioned from all Telephone Company wire centers.

FRCS service includes: the Frame Relay Access Connection, the Frame Relay Virtual Connections (VC) [which have associated Committed Information Rates (CIRs)] and the Frame Relay Customer Connection (FRCC).

The Frame Relay Access Connection provides access to a Telephone Company wire center equipped with a frame relay switch.

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.2 Service Description (Cont'd)

The Frame Relay Access Connection combines a frame relay compatible 56.0 kbps, 64.0 kbps, 128 kbps, 256 kbps, 384 kbps, 512 kbps, 1.544 Mbps or 44.736 Mbps digital transport facility with a port on a frame relay switch. The Frame Relay Access Connection includes the 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 frame relay switch, and the end user port. The end user port is a user-to-network interface which provides the line-side physical entry point into the Company frame relay network and permits FRCS 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 56.0 kbps, 64.0 kbps, 128 kbps, 256 kbps, 384 kbps, 512 kbps, 1.544 Mbps or 44.736 Mbps. For the provisioning of a DS3 (44.736 Mbps) FRAC a lease line is required between the Company Wire Center with a Frame Relay Switch and the customer site. Each end user port requires the identification of a corresponding terminating port. All end user 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 Company will provide the logical circuits required within its frame relay network to connect the ports. 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 link.

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.2 Service Description (Cont'd)

The standard PVC establishes a communications path between two ports. 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 Frame Relay Network commits to transfer data. Committed Information Rates provide for frame relay switch throughput at designated speeds. This information is required for network routing purposes.

The Frame Relay Customer Connection provides access from the Company Wire Center equipped with a frame relay switch to the Customer Site.

The Frame Relay Customer Connection (FRCC) combines a high velocity port on a frame relay switch with its equivalent digital transport facility. For a DS3 FRCC a lease line cost must be added between the Telephone Company Wire Center with a Frame Relay Switch and the customer site.

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.2 Service Description (Cont'd)

A minimum of one FRAC and one FRCC connections are required for data to be transported between customer designated premises.

16.1.3 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test at the time of installation.

16.1.4 Rate Regulations

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

16.1.4.1 Rate Categories

The following diagrams depict a generic view of the components of Frame Relay Composite Service.



ACCESS SERVICE

16. Package Data Services (Cont'd)

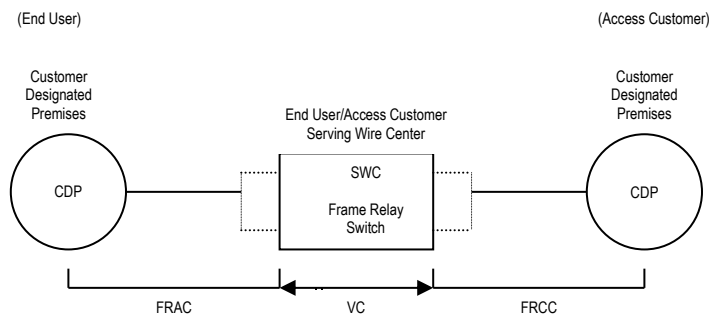
16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.1 Rate Categories (Cont'd)

**Frame Relay Composite Service**

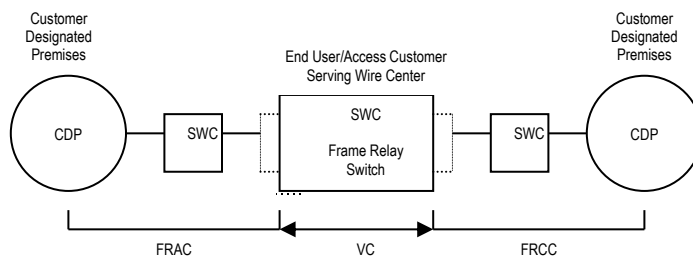
**Customer's Serving Wire Center is equipped with a frame relay switch**



**RATE ELEMENTS**

FRAC = Frame Relay Access Connection  
VC = Virtual Connection  
FRCC = Frame Relay Customer Connection

**Customer's Serving Wire Center is not equipped with a frame relay switch**



**RATE ELEMENTS**

FRAC = Frame Relay Access Connection  
VC = Virtual Connection  
FRCC = Frame Relay Customer Connection

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.1 Rate Categories (Cont'd)

(A) Frame Relay Access Connection

The Frame Relay Access Connection (FRAC) 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. The FRAC 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 FRAC charge applies per customer designated premises at which the FRCS connection is terminated. This applies even if the customer designated premises and the frame relay switch are collocated in a Telephone Company building.

(B) End User Port

An End User Port charge is applied as a discrete rate element in conjunction with jointly-provided Special Access Service, as set forth in section 7 preceding.

The End User Port is the physical location in the Telephone Company switching office where the transport facility of the customer connects to the Frame Relay 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.

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.1 Rate Categories (Cont'd)

(B) End User Port (Cont'd)

The End User Port consists of either a 56.0 kbps, 64.0 kbps, 128 kbps, 256 kbps, 384 kbps, 512 kbps, 1.544 Mbps or 44.736 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.

(C) Permanent Virtual Connection (PVC)

A PVC is a software defined communications path between two port connections.

Each PVC is provisioned with a customer selected Committed Information Rate. The CIR is a transmission speed specified by the customer. CIRs range from 8 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.

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.2 Types of Rates and Charges

There are two types of rates and charges. There 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 FRCS is provided. For billing purposes, each month is considered to have 30 days.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for FRCS are: installation of service and service rearrangements. These charges are in addition to the Access Order Charge as specified in 17.4.1 following.

(1) Installation of Service

A nonrecurring charge applies per FRAC installed and is based on the speed of the connection.

A nonrecurring charge applies per VC installed.

A nonrecurring charge applies per FRCC installed and is based on the speed of the connection.

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) 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.

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.2 Types of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(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.

(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 discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.4 Rate Regulations (Cont'd)

16.1.4.3 Minimum Period

The minimum period for FRCS is three (3) months.

The minimum period for discounted FRCS is twelve months.

16.1.5 Optional Rate Plans

A Term Discount plan is available for Frame Relay Composite Service (FRCS). The Term Discount applies to each Frame Relay Access Connection. The Permanent Virtual Connections (PVC) are not eligible for a Term Discount.

Under the Term Discount plan, the current monthly rates for eligible services are reduced by a fixed percentage. The amount of the discount percentage differs based on the length of the service commitment period selected by the customer.

Discounts for the Term Discount plan are only applied to FRCS provided to a customer within the LATA.

The minimum service period is three (3) months. Under the Optional Rate Plans, the minimum service periods are as contracted.

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.5 Optional Rate Plans (Cont'd)

16.1.5.1 Term Discounts

FRCS may be ordered at the customer's option on a month-to-month basis or for Term Discount periods of 36 months (3 years) or 60 months (5 years).

The customer must specify the length of the service commitment period at the time the service is ordered.

If a Term Discount Percentage increase occurs during the term of an existing Term Discount plan, the increased percentage will be applied automatically to the remainder of the current Term Discount period.

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount plan. If the customer does not make a choice by the end of the discount period, the rates will automatically convert to month-to-month service rates.

To be included in a Term Discount plan, all eligible FRCS rate elements must be ordered for the same commitment term (i.e., all 36 months or all 60 months) and with the same service date. When additional capacity is subsequently added, it will be available only on a month-to-month basis unless the discount period of the entire service is upgraded.

Eligible FRCS rate elements are those provided to a customer within the same LATA. As long as the number of FRCS connections included in a Term Discount plan remains constant, customer requests to install and disconnect FRAS connections, including changes affecting different wire centers and/or customer designated premises, will not change the current Term Discount period or the minimum service period, and Discontinuance of Service charges will not apply.



ACCESS SERVICE

16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.5 Optional Rate Plans (Cont'd)

16.1.5.1 Term Discounts

(A) Upgrades in Term Discounts

Services provided under month-to-month rates or Term Discount rates may be upgraded to a Term Discount plan at any time without incurring FRCS nonrecurring charges or discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term of the plan being upgraded. For example, a service with a 36 month commitment period may be upgraded to a new 36 month or 60 month service period. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all FRCS that is upgraded.

(B) Upgrades in Capacity

If the customer chooses to upgrade a service under the Term Discount plan to a higher capacity (e.g., from 56.0 kbps to 64.0 kbps or from 56.0 kbps or 64.0 kbps to 1.544 Mbps), discontinuance charges will not apply, provided all the following conditions are met:

- the customer's order for the disconnect of the existing service and the installation of the new service are received at the same time and specifically reference the application of upgrade in capacity,
- the customer's disconnect order for the existing service must reference the service installation order,
- the new service has a total capacity greater than the total capacity of the service being discontinued and,
- the new Term Discount period meets or exceeds the Term Discount period being discontinued.

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16. Package Data Services (Cont'd)

16.1 Frame Relay Composite Service (FRCS) (Cont'd)

16.1.5 Optional Rate Plans (Cont'd)

16.1.5.1 Term Discounts (Cont'd)

(B) Upgrades in Capacity (Cont'd)

A new minimum service period applies to all upgrades. Frame Relay Access Connection nonrecurring charge for an equivalent capacity of the existing services being upgraded to the higher speed service will not be assessed. FRAC nonrecurring charges will not apply to the upgraded lower speed services placed on the higher speed service if requested at the same time as the upgrade request. Nonrecurring charges will apply for capacity that exceeds the existing equivalent capacity.

Discontinuance charges will not apply should the customer choose to upgrade either a portion of or the entire FRAS under the Term Discount plan and move the service to a new customer location within the same LATA.

(C) Discontinuance of Service

If the customer chooses to disconnect all or a portion of the service prior to the expiration of the Term Discount period, discontinuance charges will apply to the portion of the service being discontinued.

Should the customer choose to discontinue a Term Discount plan prior to the completion of the minimum service period, discontinuance charges will apply. Discontinuance charges equal to one-hundred percent (100%) of the total undiscounted monthly rates, less any amounts previously paid, will apply for the minimum service period. Additionally, discontinuance charges of fifteen percent (15%) of the total undiscounted monthly charges will apply to the remaining portion of the discount service term.

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16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS)

16.2.1 Service Description

The Telephone Company Remote Access Service, RAS, is a high performance modem network for dial-up access. This service collects, aggregates, and manages customer data traffic within the Telephone Company's service area. It consists of modems located at the Telephone Company's central office sites for the aggregation of data traffic. The traffic is routed through the Company's Packet Data Service to a customers designated location.

The connection from the end user to the RAS customer is provided through a Single Number, which is included as part of RAS, at no additional charge, in lieu of local telephone numbers. This capability provides end users access to RAS Network via one (787) 959-XXXX telephone number. The end user can initiate a call within the Telephone Company's service area to the customer, and will be charged as a local call by the Company for the connection and duration of the call.

The Dial-up Port type is intended for use with a single computer connection and not for connection to a Local Area Network (LAN).

Customer connection to its designated location is not included in RAS. Customer connection is available only through the Packet Data Service (Frame Relay) section in this tariff.

RAS does not include the end user access services. End users services and facilities are available from this and other public telephone network tariffs.

RAS requires the customer to utilize Remote Authentication Dial-In User Service (RADIUS), a network security protocol, for the customers authentication and authorization of its dial-up end user(s). RADIUS is not included as part of RAS. See Section 16.2.2 Technical Specifications

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS) (Cont'd)

16.2.1 Service Description (Cont'd)

Maintenance and upgrades for RAS are performed during the hours of 3:00 a.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive or out-of-service condition. The amount of time that this scheduled out-of-service condition will exist is called a "maintenance window." The Telephone Company will provide the customer notice prior to the maintenance window and will work cooperatively with the customer to minimize service disruption. Maintenance window activity could be scheduled for consecutive days.

16.2.2 Technical Specifications

RAS is provided in compliance with standards established by the Internet Architecture Board as stated in following publications:

STD 0001, Internet Official Protocol Standards; J Postel, Editor, issued June 1997.

RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C Rigney, A. Rubens, W. Simpson, S. Wilens., issued April 1997.

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS) (Cont'd)

16.2.3 Terms and Conditions

- (A) RAS is available on a month-to-month basis and for a commitment period of 3 years.
- (B) Month-to-month service is subject to a twelve-month minimum period.
- (C) Customers selecting a 3-year term must also select a minimum port volume for the service period.
- (D) RAS is provided on a negotiated service date interval.
- (E) RAS is monitored and maintained 24 hours-a-day 7 days a week for trouble isolation and resolution.
- (F) The customer is responsible for purchasing an adequate quantity of ports to accommodate originating dial-up traffic, which is delivered to the selected RAS central office, for aggregation and routing to the customer's host location.
- (G) The Customer is responsible for providing a modem Forecast by Telephone Company's central office semiannually.
- (H) The Company will provide credit for service interruptions only when said interruptions are continuous and exceed 24 hours. The credit shall be in the form of an adjustment to the recurring charges and shall apply only to those interruptions duly notified by the customer. Credit shall be requested within 20 days from the date invoice is sent. For purposes of computing the applicable credit, any interruption shall be measured from the time the Company is notified. This paragraph shall not apply for service interruptions caused by negligence or intentionally by the customers or its authorized users. Under no circumstances the credit shall exceed the amount charged to the Customer.

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16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS) (Cont'd)

16.2.4 Rate Regulations

- (A) All rate categories are billed monthly.
- (B) A nonrecurring service order charge applies per request as set forth in Section 17.4.1 following.
- (C) When the customer's commitment period ends, the rates associated with the quantity of ports installed under such commitment period will remain in effect, provided that in the event that in subsequent periods the level is above or below the quantity installed the existing ports will be re-rated to the new rate.
- (D) Termination liability applies when a port is disconnected prior to the end of the minimum service period or prior to the end of the commitment period. Liability is assessed as follows:
  - (1) Month-to-Month Service: The customer is responsible for 100% of the monthly rates for the remaining portion of the entire 12-month minimum service period.
  - (2) 3-Year Term: The customer is responsible for 100% of the monthly rates for the remaining portion of the entire 12-month minimum service period and 15% of the monthly rates for the remaining 3-year term in excess of the minimum period.
  - (3) Termination liability is waived if a month-to-month port basis is converted to a 3-year term.

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16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS) (Cont'd)

16.2.4 Rate Regulations (Cont'd)

- (E) Customers with a 3-year term commitment must order service with a volume commitment, enabling the customer to receive the discount applicable to the appropriate volume tier for the committed volume for all ports subscribed. Customers with this option will have 12 months after the initial port installation to reach the committed port volume.

After the end of the appropriate 12-month installation window, a review of the customer's account will be performed to verify that the committed volume level has been achieved. Rates will be adjusted accordingly based upon the number of ports in service.

Failure to achieve the guaranteed quantity of ports within the specified time frame will result in all ports being re-rated to the applicable monthly rate for the quantity actually in service. In addition, a liability charge equal to the monthly rate per port at the guaranteed commitment level multiplied by the port shortfall (the difference between the committed volume and the actual number of ports in service) multiplied by 3 months will apply.

In the event the customer has exceeded the commitment level, and the number of ports in service qualifies for a lower monthly rate based upon the volume tier for that number of ports, all ports will be re-rated to the new, lower monthly rate.

Customer account reviews will be performed semi-annually after the first review until the end of the commitment period.

ACCESS SERVICE

16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS) (Cont'd)

16.2.4 Rate Regulations (Cont'd)

- (F) Customers with a 3-year term commitment may add ports at any time during the commitment period at the rates applicable for the term and the volume commitment at such date. All ports will therefore be subject to a common expiration date for service commitment.
- (G) RAS ports must be purchased in increments of 25 ports.
- (H) RAS Reports
  - (1) RAS includes access through a dedicated line, which is not included as part of RAS, to the Customer Service Management (CSM) System. The Telephone Company will provide Ras customers with the ability to access traffic data in near real-time via web-based access.
  - (2) The CSM Reports will have the ability to display varying time periods for archived data, in varying intervals (i.e., several days, weeks, or months up to 10 days prior). CSM customers will also have the ability to view the output data graphically. Appropriate output may also be displayed illustrating Raw Data, Peaks, or Averages. Polling across the RAS network for the CSM reports occurs in 10-minute intervals on average. Output Data is not available for the most recent 24 hours prior to the query.



ACCESS SERVICE

16. Package Data Services (Cont'd)

16.2 Remote Access Service (RAS) (Cont'd)

16.2.5 Rate Categories

- (A) Dial-up Port: Provides one data path connection in a local calling area of the company designated by the customer for analog dial-up access to the customer by the customers end users, and the IP routing of the end user data to the customer.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service

17.1.1 Surcharge for Special Access Service

- Per Voice Grade Equivalent

|              | <u>Monthly<br/>Rate</u> | <u>Tariff<br/>Section<br/>Reference</u> | <u>Billing<br/>Code</u> |
|--------------|-------------------------|-----------------------------------------|-------------------------|
| PRTC         | \$25.00                 | 7.3                                     | 9910                    |
| PRTC-Central | \$25.00                 | 7.3                                     | 9910                    |

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.2 **Reserved for Future Use**

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.3 Telegraph Grade Service

Regulations concerning Telegraph Grade Service are set forth in 7.5 preceding.

(A) Channel Termination per Termination

| (1) Two-Wire         |                     |                            |                     |
|----------------------|---------------------|----------------------------|---------------------|
| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
| PRTC                 | \$ 8.04             | \$169.00                   | 5081                |
| PRTC - Central       | \$ 8.04             | \$169.00                   | 5081                |

| (2) Four-Wire        |                     |                             |                     |
|----------------------|---------------------|-----------------------------|---------------------|
| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Non-recurring Charge</u> | <u>Billing Code</u> |
| PRTC                 | \$12.87             | \$169.00                    | 5082                |
| PRTC - Central       | \$12.87             | \$169.00                    | 5082                |

(B) Channel Mileage

| <u>Filing Entity</u> | <u>Facility Per Mile</u> | <u>Billing Code</u> |
|----------------------|--------------------------|---------------------|
| PRTC                 | \$0.89                   | 5086                |
| PRTC - Central       | \$0.89                   | 5086                |

| <u>Filing Entity</u> | <u>Termination Per Termination</u> | <u>Billing Code</u> |
|----------------------|------------------------------------|---------------------|
| PRTC                 | \$3.57                             | 5088                |
| PRTC - Central       | \$3.57                             | 5088                |

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.4 Voice Grade Service

Regulations concerning Voice Grade Service are set forth in 7.6 preceding.

(A) Channel Termination Per Termination

| (1) Two-Wire         |                     |                            |                     |
|----------------------|---------------------|----------------------------|---------------------|
| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
| PRTC                 | \$ 8.04             | \$189.85                   | 5096                |
| PRTC - Central       | \$ 8.04             | \$189.85                   | 5096                |

| (2) Four-Wire        |                     |                            |                     |
|----------------------|---------------------|----------------------------|---------------------|
| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
| PRTC                 | \$12.87             | \$189.85                   | 5097                |
| PRTC - Central       | \$12.87             | \$189.85                   | 5097                |

(B) Channel Mileage

| <u>Filing Entity</u> | <u>Facility Per Mile</u> | <u>Billing Code</u> |
|----------------------|--------------------------|---------------------|
| PRTC                 | \$ 0.89                  | 5099                |
| PRTC - Central       | \$ 0.89                  | 5099                |

| <u>Filing Entity</u> | <u>Termination Per Termination</u> | <u>Billing Code</u> |
|----------------------|------------------------------------|---------------------|
| PRTC                 | \$ 3.57                            | 5100                |
| PRTC - Central       | \$ 3.57                            | 5100                |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.4 Voice Grade Service (Cont'd)

(C) Optional Features and Functions

Rates applicable for companies listed in 17.3.4(A).

(1) Bridging Per Port

- Two-Wire

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$7.60                  | 5109                    |
| PRTC - Central       | \$7.60                  | 5109                    |

- Four-Wire

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$7.60                  | 5110                    |
| PRTC - Central       | \$7.60                  | 5110                    |

(2) Conditioning Per Termination

- C-Type

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$6.90                  | 5122                    |
| PRTC - Central       | \$6.90                  | 5122                    |

- D-Type (Data Capability)

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$6.90                  | 5128                    |
| PRTC - Central       | \$6.90                  | 5128                    |

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.4 Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

- (3) Improved Return Loss for Effective  
Two-Wire or Four-Wire Transmission.  
Rate applied per Channel Termination.

## - Two Wire

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$8.10                  | 5124                    |
| PRTC - Central       | \$8.10                  | 5124                    |

## - Four Wire

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$6.40                  | 5125                    |
| PRTC - Central       | \$6.40                  | 5125                    |

- (4) Customer Specified Receive Level per  
Two-Wire Termination.

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$8.50                  | 5126                    |
| PRTC - Central       | \$8.50                  | 5126                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.4 Voice Grade Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

- (5) Multiplexing per Arrangement Voice to Telegraph grade per Channel Termination.

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$191.45            | 5127                |
| PRTC - Central       | \$191.45            | 5127                |

- (6) Signaling Capability per Termination.

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$21.50             | 5130                |
| PRTC - Central       | \$21.50             | 5130                |

- (7) Public Packet Switching Network (PPSN) Interface Arrangement. Rate applied per Arrangement.

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | ICB                 | 5620                |
| PRTC - Central       | ICB                 | 5620                |



## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.5 Program Audio Service

Regulations concerning Program Audio Service are set forth in 7.7 preceding.

(A) Channel Termination Per Termination

## (1) 200 to 3500 Hz

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Daily Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|----------------------------|---------------------|
| PRTC                 | \$18.21             | \$2.43            | \$180.00                   | 5659                |
| PRTC - Central       | \$18.21             | \$2.43            | \$180.00                   | 5659                |

## (2) 100 to 5000 Hz

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Daily Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|----------------------------|---------------------|
| PRTC                 | \$18.03             | \$2.40            | \$180.00                   | 5660                |
| PRTC - Central       | \$18.03             | \$2.40            | \$180.00                   | 5660                |

## (3) 50 to 8000 Hz

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Daily Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|----------------------------|---------------------|
| PRTC                 | \$18.95             | \$2.53            | \$180.00                   | 5661                |
| PRTC - Central       | \$18.95             | \$2.53            | \$180.00                   | 5661                |

## (4) 50 to 15000 Hz

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Daily Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|----------------------------|---------------------|
| PRTC                 | \$18.21             | \$2.43            | \$180.00                   | 5662                |
| PRTC - Central       | \$18.21             | \$2.43            | \$180.00                   | 5662                |

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17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.5 Program Audio Service (Cont'd)

(B) Channel Mileage

(1) 200 to 3500 Hz

- CMF

| <u>Filing Entity</u> | <u>Per Mile</u>     |                   | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u> | <u>Daily Rate</u> |                     |
| PRTC                 | \$0.92              | \$0.12            | 5663                |
| PRTC - Central       | \$0.92              | \$0.12            | 5663                |

- CMT

| <u>Filing Entity</u> | <u>Per Termination</u> |                   | <u>Billing Code</u> |
|----------------------|------------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u>    | <u>Daily Rate</u> |                     |
| PRTC                 | \$3.68                 | \$0.49            | 5667                |
| PRTC - Central       | \$3.68                 | \$0.49            | 5667                |

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17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.5 Program Audio Service (Cont'd)

(C) Channel Mileage (Cont'd)

(2) 100 to 5000 Hz

- CMF

| <u>Filing Entity</u> | <u>Per Mile</u>     |                   | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u> | <u>Daily Rate</u> |                     |
| PRTC                 | \$1.66              | \$0.22            | 5664                |
| PRTC - Central       | \$1.66              | \$0.22            | 5664                |

- CMT

| <u>Filing Entity</u> | <u>Per Termination</u> |                   | <u>Billing Code</u> |
|----------------------|------------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u>    | <u>Daily Rate</u> |                     |
| PRTC                 | \$7.36                 | \$0.98            | 5668                |
| PRTC - Central       | \$7.36                 | \$0.98            | 5668                |

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17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.5 Program Audio Service (Cont'd)

(B) Channel Mileage (Cont'd)

(3) 50 to 8000 Hz

- CMF

| <u>Filing Entity</u> | <u>Per Mile</u>     |                   | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u> | <u>Daily Rate</u> |                     |
| PRTC                 | \$2.76              | \$0.37            | 5665                |
| PRTC - Central       | \$2.76              | \$0.37            | 5665                |

- CMT

| <u>Filing Entity</u> | <u>Per Termination</u> |                   | <u>Billing Code</u> |
|----------------------|------------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u>    | <u>Daily Rate</u> |                     |
| PRTC                 | \$11.04                | \$1.47            | 5669                |
| PRTC - Central       | \$11.04                | \$1.47            | 5669                |

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17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.5 Program Audio Service (Cont'd)

(B) Channel Mileage (Cont'd)

(4) 50 to 15000 Hz

- CMF

| <u>Filing Entity</u> | <u>Per Mile</u>     |                   | <u>Billing Code</u> |
|----------------------|---------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u> | <u>Daily Rate</u> |                     |
| PRTC                 | \$3.50              | \$0.47            | 5666                |
| PRTC - Central       | \$3.50              | \$0.47            | 5666                |

- CMT

| <u>Filing Entity</u> | <u>Per Termination</u> |                   | <u>Billing Code</u> |
|----------------------|------------------------|-------------------|---------------------|
|                      | <u>Monthly Rate</u>    | <u>Daily Rate</u> |                     |
| PRTC                 | \$14.72                | \$1.96            | 5670                |
| PRTC - Central       | \$14.72                | \$1.96            | 5670                |

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17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.5 Program Audio Service (Cont'd)

(C) Optional Features and Functions

Rates applicable for study areas listed in 17.3.5(A).

(1) Bridging, Distribution Amplifier  
- Per Port

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Daily<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-----------------------|-------------------------|
| PRTC                 | \$7.70                  | \$0.77                | 5671                    |
| PRTC - Central       | \$7.70                  | \$0.77                | 5671                    |

(2) Gain Conditioning. Rate applied  
per Channel Termination.

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Daily<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-----------------------|-------------------------|
| PRTC                 | \$9.10                  | \$0.91                | 5672                    |
| PRTC - Central       | \$9.10                  | \$0.91                | 5672                    |

(3) Stereo per Service.

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Daily<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-----------------------|-------------------------|
| PRTC                 | ICB                     | ICB                   | 5673                    |
| PRTC - Central       | ICB                     | ICB                   | 5673                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.6 Video Service

Regulations concerning Video Service are set forth in 7.8 preceding.

Video Service rates and charges for issuing carriers referencing this Interstate Service Guide for Special Access Service will be determined on an individual case basis and filed in Section 17.3.9 following.

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service

Regulations concerning Digital Data Service are set forth in 7.9 preceding.

(A) Channel Termination Per Termination

## (1) 2.4 Kbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | \$16.56             | \$243.40                   | 5821                |
| PRTC - Central       | \$16.56             | \$243.40                   | 5821                |

## (2) 4.8 Kbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | \$16.56             | \$243.40                   | 5822                |
| PRTC - Central       | \$16.56             | \$243.40                   | 5822                |

## (3) 9.6 Kbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | \$16.56             | \$243.40                   | 5823                |
| PRTC - Central       | \$16.56             | \$243.40                   | 5823                |

## (4) 19.2 Kbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | \$16.56             | \$243.40                   | 5761                |
| PRTC - Central       | \$16.56             | \$243.40                   | 5761                |

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service (Cont'd)

(A) Channel Termination Per Termination (Cont'd)

(5) 56 Kbps

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Nonrecurring<br/>Charge</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|--------------------------------|-------------------------|
| PRTC                 | \$16.56                 | \$243.40                       | 5824                    |
| PRTC - Central       | \$16.56                 | \$243.40                       | 5824                    |

(6) 64 Kbps

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Nonrecurring<br/>Charge</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|--------------------------------|-------------------------|
| PRTC                 | \$16.56                 | \$243.40                       | 5762                    |
| PRTC - Central       | \$16.56                 | \$243.40                       | 5762                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service (Cont'd)

(B) Channel Mileage

(1) 2.4 Kbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | \$0.92                       | 5826                    |
| PRTC - Central       | \$0.92                       | 5826                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$3.68                                 | 5831                    |
| PRTC - Central       | \$3.68                                 | 5831                    |

(2) 4.8 Kbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | \$0.92                       | 5827                    |
| PRTC - Central       | \$0.92                       | 5827                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$3.68                                 | 5832                    |
| PRTC - Central       | \$3.68                                 | 5832                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service (Cont'd)

(B) Channel Mileage (Cont'd)

(3) 9.6 Kbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | \$0.92                       | 5828                    |
| PRTC - Central       | \$0.92                       | 5828                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$3.68                                 | 5833                    |
| PRTC - Central       | \$3.68                                 | 5833                    |

(4) 19.2 Kbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | \$0.92                       | 5767                    |
| PRTC - Central       | \$0.92                       | 5767                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$3.68                                 | 5773                    |
| PRTC - Central       | \$3.68                                 | 5773                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service (Cont'd)

(B) Channel Mileage (Cont'd)

(5) 56 Kbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u>           | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$1.84                                 | 5829                    |
| PRTC - Central       | \$1.84                                 | 5829                    |
| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
| PRTC                 | \$7.36                                 | 5834                    |
| PRTC - Central       | \$7.36                                 | 5834                    |

(6) 64 Kbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u>           | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$1.84                                 | 5768                    |
| PRTC - Central       | \$1.84                                 | 5768                    |
| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
| PRTC                 | \$7.36                                 | 5774                    |
| PRTC - Central       | \$7.36                                 | 5774                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service (Cont'd)

(C) Optional Features and Functions

Rates applicable for study areas listed in 17.3.7(A).

(1) Bridging per port

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$6.40                  | 5871                    |
| PRTC - Central       | \$6.40                  | 5871                    |

(2) Public Packet Switching Network  
Interface Arrangement

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | ICB                     | 5621/5622               |
| PRTC - Central       | ICB                     | 5621/5622               |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.7 Digital Data Service (Cont'd)

(D) Channel Service Unit

- Per Termination

| <u>Filing Entity</u> | <u>2.4<br/>Kbps</u> | <u>Billing<br/>Code</u> |
|----------------------|---------------------|-------------------------|
| PRTC                 | \$21.80             | 5872                    |
| PRTC - Central       | \$21.80             | 5872                    |
| <u>Filing Entity</u> | <u>4.8<br/>Kbps</u> | <u>Billing<br/>Code</u> |
| PRTC                 | \$21.80             | 5873                    |
| PRTC - Central       | \$21.80             | 5873                    |
| <u>Filing Entity</u> | <u>9.6<br/>Kbps</u> | <u>Billing<br/>Code</u> |
| PRTC                 | \$21.80             | 5874                    |
| PRTC - Central       | \$21.80             | 5874                    |
| <u>Filing Entity</u> | <u>56<br/>Kbps</u>  | <u>Billing<br/>Code</u> |
| PRTC                 | \$21.80             | 5875                    |
| PRTC - Central       | \$21.80             | 5875                    |

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.8 High Capacity Service

Regulations concerning High Capacity Service are set forth in 7.10 preceding.

High Capacity Service rates and charges for issuing carriers referencing PUERTO RICO TELEPHONE COMPANY Interstate Service Guide for Special Access Service determined on an individual case basis are filed in Section 17.1.9 following.

(A) Channel Termination Per Termination

(1) 1.544 Mbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | \$44.16             | \$200.00                   | 5876                |
| PRTC - Central       | \$44.16             | \$200.00                   | 5876                |

(2) 6.312 Mbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | ICB                 | ICB                        | 5880                |
| PRTC -Central        | ICB                 | ICB                        | 5880                |

(3) 44.736 Mbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | \$779.59            | \$478.00                   | 5879                |
| PRTC - Central       | \$779.59            | \$478.00                   | 5879                |

(4) 274.176 Mbps

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | <u>Billing Code</u> |
|----------------------|---------------------|----------------------------|---------------------|
| PRTC                 | ICB                 | ICB                        | 5881                |
| PRTC - Central       | ICB                 | ICB                        | 5881                |

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## ACCESS SERVICE

17. Rates and Charges (Cont'd)17.1 Special Access Service (Cont'd)17.1.8 High Capacity Service (Cont'd)(B) Channel Mileage

## (1) 1.544 Mbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | \$9.20                       | 5882                    |
| PRTC - Central       | \$9.20                       | 5882                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$36.80                                | 5883                    |
| PRTC - Central       | \$36.80                                | 5883                    |

## (2) 6.312 Mbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | ICB                          | 5925                    |
| PRTC - Central       | ICB                          | 5925                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$36.80                                | 5926                    |
| PRTC - Central       | \$36.80                                | 5926                    |

## (3) 44.736 Mbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | \$74.14                      | 5921                    |
| PRTC - Central       | \$74.14                      | 5921                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | \$257.63                               | 5928                    |
| PRTC - Central       | \$257.63                               | 5928                    |

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17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.8 High Capacity Service (Cont'd)

(B) Channel Mileage (Cont'd)

(4) 274.176 Mbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Billing<br/>Code</u> |
|----------------------|------------------------------|-------------------------|
| PRTC                 | ICB                          | 5922                    |
| PRTC - Central       | ICB                          | 5922                    |

| <u>Filing Entity</u> | <u>Termination<br/>Per Termination</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------------------------|-------------------------|
| PRTC                 | ICB                                    | 5929                    |
| PRTC - Central       | ICB                                    | 5929                    |

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.8 High Capacity Service (Cont'd)

(C) Optional Features and Functions

Rates applicable for study areas listed in 17.1.8(A).

## (1) Multiplexing, per arrangement

## (a) DS4 to DS1

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | ICB                 | 5931                |
| PRTC - Central       | ICB                 | 5931                |

## (b) DS3 to DS1

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$346.30            | 5932                |
| PRTC - Central       | \$346.30            | 5932                |

## (c) DS2 to DS1

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | ICB                 | 5930                |
| PRTC - Central       | ICB                 | 5930                |

## (d) DS1 to voice

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$165.90            | 5935                |
| PRTC - Central       | \$165.90            | 5935                |

## (e) DS1 to DS0

| <u>Filing Entity</u> | <u>Monthly Rate</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$219.60            | 5936                |
| PRTC - Central       | \$219.60            | 5936                |

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## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.8 High Capacity Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

## (1) Multiplexing, per arrangement

## (f) DS0 to Subrates

|                      |             |             |
|----------------------|-------------|-------------|
|                      | Up to 20    |             |
|                      | 2.4         | Billing     |
| <u>Filing Entity</u> | <u>Kbps</u> | <u>Code</u> |
| PRTC                 | \$339.04    | 5937        |
| PRTC - Central       | \$339.04    | 5937        |

|                      |             |             |
|----------------------|-------------|-------------|
|                      | Up to 10    |             |
|                      | 4.8         | Billing     |
| <u>Filing Entity</u> | <u>Kbps</u> | <u>Code</u> |
| PRTC                 | \$202.82    | 5938        |
| PRTC - Central       | \$202.82    | 5938        |

|                      |             |             |
|----------------------|-------------|-------------|
|                      | Up to 5     |             |
|                      | 9.6         | Billing     |
| <u>Filing Entity</u> | <u>Kbps</u> | <u>Code</u> |
| PRTC                 | \$157.50    | 5939        |
| PRTC - Central       | \$157.50    | 5939        |

(2) Automatic Loop Transfer  
Per arrangement

|                      |          |         |
|----------------------|----------|---------|
|                      | Monthly  | Billing |
|                      | Rate     | Code    |
| <u>Filing Entity</u> |          |         |
| PRTC                 | \$ 43.10 | 5951    |
| PRTC - Central       | \$ 43.10 | 5951    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.8 High Capacity Service (Cont'd)

(C) Optional Features and Functions (Cont'd)

- (3) Transfer Arrangement  
(key activated or dial up)  
- per four port arrangement including  
Control channel termination

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$50.60                 | 5952                    |
| PRTC - Central       | \$50.60                 | 5952                    |

(D) Network Channel Terminating Equipment  
(NCTE) Per Termination

- (1) 1.544 Mbps

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$60.00                 | 5953                    |
| PRTC - Central       | \$60.00                 | 5953                    |

ACCESS SERVICES

17. Rates and Charges

17.1 Special Access Service (Cont'd)

17.1.9 Individual Case Filings

Rate and charges for Special Access Service provided on an individual case basis filed are the following:

(A) Ethernet Connectivity - 1 Gigabyte

|                                                                                                                                                                                                                                                                                                                                             | Rate per<br><u>Month</u> | Tariff<br><u>Section</u> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| This service provides the connectivity for 1 Gigabyte (1 GB) Ethernet circuit as requested by PRT Larga Distancia, Inc. in order to provide connectivity for the customer's call server equipment located in Bayamón to the customer's equipment located in Caparra for the provision of the customer's interstate voice and data services. |                          |                          |
|                                                                                                                                                                                                                                                                                                                                             | \$15,557                 | 7.11.A                   |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.10 Service Discount Plans

Regulations regarding Service Discount Plans are set forth in 7.2.8 and 7.2.9 preceding.

(A) High Capacity 1.544 Mbps (DS1)

| <u>Plan Length</u> | <u>Discount %</u> |
|--------------------|-------------------|
| 36 Months          | 10%               |
| 60 Months          | 20%               |
| 120 Months         | 30%               |

(B) High Capacity 44.736 Mbps (DS3)

| <u>Plan Length</u> | <u>Discount %</u> |
|--------------------|-------------------|
| 36 Months          | 10%               |
| 60 Months          | 20%               |
| 120 Months         | 30%               |

(C) Synchronous Optical Channel Service (OC12)

| <u>Plan Length</u> | <u>Discount %</u> |
|--------------------|-------------------|
| 36 Months          | 10%               |
| 60 Months          | 20%               |
| 120 Months         | 30%               |

- (A) High Capacity Optional Rate Plans are only available to those customers who have a pending order for service or have obtained this service prior to May 31, 1997. Optional Rate Plans will not be renewed.

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.1 Special Access Service (Cont'd)

17.1.11 Synchronous Optical Channel Service

Regulations concerning Synchronous Optical Channel Service are set forth in 7.12 preceding.

(A) Channel Termination Per Termination

(1) 622.08 Mbps

| <u>Filing Entity</u> | <u>Monthly<br/>Rate</u> | <u>Nonrecurring<br/>Charge</u> |
|----------------------|-------------------------|--------------------------------|
| PRTC                 | \$2,811.19              | \$500.00                       |
| PRTC - Central       | \$2,811.19              | \$500.00                       |

(B) Channel Mileage

(1) 622.08 Mbps

| <u>Filing Entity</u> | <u>Facility<br/>Per Mile</u> | <u>Termination<br/>Per Termination</u> |
|----------------------|------------------------------|----------------------------------------|
| PRTC                 | \$638.08                     | \$414.56                               |
| PRTC - Central       | \$638.08                     | \$414.56                               |

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services

17.2.1 Access Ordering

(A) Access Order Charge

- Per Order

| <u>Filing Entity</u> | <u>Charge</u> | <u>Tariff<br/>Section<br/>Reference</u> | <u>Billing<br/>Code</u> |
|----------------------|---------------|-----------------------------------------|-------------------------|
| PRTC                 | \$88.00       | 5.4.1                                   | 5061                    |
| PRTC - Central       | \$88.00       | 5.4.1                                   | 5061                    |

(B) Service Date Change Charge

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 17.4.1(A) preceding does not apply. The applicable charge is:

- Per Order

| <u>Filing Entity</u> | <u>Charge</u> | <u>Tariff<br/>Section<br/>Reference</u> | <u>Billing<br/>Code</u> |
|----------------------|---------------|-----------------------------------------|-------------------------|
| PRTC                 | \$33.00       | 5.4.3                                   | 5062                    |
| PRTC - Central       | \$33.00       | 5.4.3                                   | 5062                    |

(C) Design Change Charge

The Design Change Charge will apply on a per order per occurrence basis, for each order requiring design change. The applicable charge is:

- Per Order

| <u>Filing Entity</u> | <u>Charge</u> | <u>Tariff<br/>Section<br/>Reference</u> | <u>Billing<br/>Code</u> |
|----------------------|---------------|-----------------------------------------|-------------------------|
| PRTC                 | \$33.00       | 5.4.3                                   | 5063                    |
| PRTC - Central       | \$33.00       | 5.4.3                                   | 5063                    |

(D) Miscellaneous Service Order Charge

| <u>Filing Entity</u> | <u>Charge</u> | <u>Tariff<br/>Section<br/>Reference</u> | <u>Billing<br/>Code</u> |
|----------------------|---------------|-----------------------------------------|-------------------------|
| PRTC                 | \$35.00       | 5.4.2                                   | 5064                    |
| PRTC - Central       | \$35.00       | 5.4.2                                   | 5064                    |

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17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.2 Additional Engineering

Regulations regarding Additional Engineering are set forth in 13.1 preceding.

- Each Half Hour or Fraction Thereof

| <u>Filing Entity</u> | <u>Basic<br/>Time</u> | <u>Billing<br/>Code</u> |
|----------------------|-----------------------|-------------------------|
| PRTC                 | \$20.94               | 5065                    |
| PRTC - Central       | \$20.94               | 5065                    |

| <u>Filing Entity</u> | <u>Over<br/>Time</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------|-------------------------|
| PRTC                 | \$31.41              | 5066                    |
| PRTC - Central       | \$31.41              | 5066                    |

| <u>Filing Entity</u> | <u>Premium<br/>Time</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$41.87                 | 5067                    |
| PRTC - Central       | \$41.87                 | 5067                    |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.3 Additional Labor

Installation or Repair and Stand By Testing

Regulations regarding Additional Labor are set forth in 13.2 preceding.

(A) Installation or Repair

- Each Half Hour or Fraction Thereof

| <u>Filing Entity</u> | <u>Basic Time</u> | <u>Billing Code</u> |
|----------------------|-------------------|---------------------|
| PRTC                 | \$22.08           | 5060                |
| PRTC - Central       | \$22.08           | 5060                |

| <u>Filing Entity</u> | <u>Over Time</u> | <u>Billing Code</u> |
|----------------------|------------------|---------------------|
| PRTC                 | \$33.12          | 5068                |
| PRTC - Central       | \$33.12          | 5068                |

| <u>Filing Entity</u> | <u>Premium Time</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$44.16             | 5069                |
| PRTC - Central       | \$44.16             | 5069                |

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.3 Additional Labor (Cont'd)

Installation or Repair and Stand By Testing (Cont'd)

Regulations regarding Additional Labor are set forth in 13.2 preceding.

(B) Stand by Testing

- Each Half Hour or Fraction Thereof

| <u>Filing Entity</u> | <u>Basic<br/>Time</u> | <u>Billing<br/>Code</u> |
|----------------------|-----------------------|-------------------------|
| PRTC                 | \$17.93               | 5070                    |
| PRTC - Central       | \$17.93               | 5070                    |

| <u>Filing Entity</u> | <u>Over<br/>Time</u> | <u>Billing<br/>Code</u> |
|----------------------|----------------------|-------------------------|
| PRTC                 | \$26.89              | 5071                    |
| PRTC - Central       | \$26.89              | 5071                    |

| <u>Filing Entity</u> | <u>Premium<br/>Time</u> | <u>Billing<br/>Code</u> |
|----------------------|-------------------------|-------------------------|
| PRTC                 | \$35.86                 | 5072                    |
| PRTC - Central       | \$35.86                 | 5072                    |

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.3 Additional Labor (Cont'd)

Installation or Repair and Stand By Testing (Cont'd)

Regulations regarding Additional Labor are set forth in 13.2 preceding.

(C) Testing and Maintenance with other Telephone Companies, or other labor.

(1) Installation and Repair Technician

- Each Half Hour or Fraction Thereof

| <u>Filing Entity</u> | <u>Basic Time</u> | <u>Billing Code</u> |
|----------------------|-------------------|---------------------|
| PRTC                 | \$21.29           | 5073                |
| PRTC - Central       | \$21.29           | 5073                |

| <u>Filing Entity</u> | <u>Over Time</u> | <u>Billing Code</u> |
|----------------------|------------------|---------------------|
| PRTC                 | \$31.93          | 5075                |
| PRTC - Central       | \$31.93          | 5075                |

| <u>Filing Entity</u> | <u>Premium Time</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$42.57             | 5077                |
| PRTC - Central       | \$42.57             | 5077                |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.3 Additional Labor (Cont'd)

Installation or Repair and Stand By Testing (Cont'd)

Regulations regarding Additional Labor are set forth in 13.2 preceding.

(C) Testing and Maintenance with other Telephone Companies, or other labor. (Cont'd)

(2) Central Office Maintenance Technician

- Each Half Hour or Fraction Thereof

| <u>Filing Entity</u> | <u>Basic Time</u> | <u>Billing Code</u> |
|----------------------|-------------------|---------------------|
| PRTC                 | \$17.49           | 5074                |
| PRTC - Central       | \$17.49           | 5074                |

| <u>Filing Entity</u> | <u>Over Time</u> | <u>Billing Code</u> |
|----------------------|------------------|---------------------|
| PRTC                 | \$26.23          | 5076                |
| PRTC - Central       | \$26.23          | 5076                |

| <u>Filing Entity</u> | <u>Premium Time</u> | <u>Billing Code</u> |
|----------------------|---------------------|---------------------|
| PRTC                 | \$34.98             | 5078                |
| PRTC - Central       | \$34.98             | 5078                |

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.4 Miscellaneous Services

Regulations regarding Miscellaneous Services are set forth in 13.3 preceding.

(A) Testing and Maintenance of Service

Regulations concerning Testing and Maintenance of Service are set forth in 13.3.1 and 13.3.2 preceding.

| <u>Test Periods</u>                      | <u>Each Half Hour or<br/>Fraction Thereof</u>                                 |
|------------------------------------------|-------------------------------------------------------------------------------|
| Basic Time, Overtime<br>and Premium Time | See the rates for<br>Additional Labor<br>as set forth in<br>17.4.3 preceding. |

(B) Telecommunications Service Priority

Regulations concerning Telecommunications Service Priority are set forth in 13.3.3 preceding.

|                      | <u>Nonrecurring<br/>Charge</u> | <u>Billing Code</u> |
|----------------------|--------------------------------|---------------------|
| Per service arranged | \$50.00                        | 5775                |

(C) Controller Arrangement

Regulations concerning Controller Arrangements are set forth in 13.3.4 preceding.

|                 | <u>Monthly<br/>Rate</u> |
|-----------------|-------------------------|
| Per arrangement | \$5.00                  |

## ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.5 Special Federal Government Access Services

(A) Voice Grade Special Access Service

| <u>Voice Grade Secure Communications</u> | <u>Monthly Rates</u> | <u>Nonrecurring Charges</u> | <u>Termination Charges</u> |
|------------------------------------------|----------------------|-----------------------------|----------------------------|
|------------------------------------------|----------------------|-----------------------------|----------------------------|

Type I, each  
T-3 Conditioning, ICB rates and charges apply

Additional Conditioning,  
per service termination ICB rates and charges apply

Type II, each  
G-1 Conditioning, ICB rates and charges apply

Type III, each  
G-2 Conditioning, ICB rates and charges apply

Additional Conditioning,  
per service termination ICB rates and charges apply

Type IV, each  
G-3 Conditioning, ICB rates and charges apply

Additional Conditioning,  
per service termination ICB rates and charges apply

(B) Wideband Digital Special Access Service

| <u>Wideband Secure Communications</u> | <u>Monthly Rates</u> | <u>Nonrecurring Charges</u> | <u>Termination Charges</u> |
|---------------------------------------|----------------------|-----------------------------|----------------------------|
|---------------------------------------|----------------------|-----------------------------|----------------------------|

Type I, each ICB rates and charges apply

Type II, each ICB rates and charges apply

Type III, each ICB rates and charges apply

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services (Cont'd)

17.2.6 Special Facilities Routing of Access Services

(A) Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an individual case basis.

Reserved for Future Use

(B) Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an individual case basis.

Reserved for Future Use

(C) Diversity and Avoidance Combined

For each service provided in accordance with 11.1.3 preceding, the rates and charges will be developed on an individual case basis.

Reserved for Future Use

(D) Cable-Only Facilities

For each service provided in accordance with 11.1.4 preceding, the rates and charges will be developed on an individual case basis.

Reserved for Future Use



ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Other Services

17.2.7 Specialized Service Arrangements

Specialized Service Arrangements are provided in accordance with 12.1 preceding on an individual case basis.

## ACCESS SERVICE

17. Rates and Charges

17.3 Packet Data Services

17.3.1 Frame Relay Composite Service (FRCS)

|                                                     | Monthly<br>Rate | NRC       |
|-----------------------------------------------------|-----------------|-----------|
| Frame Relay Access Connection, per FRAC             |                 |           |
| 56kbps / 64 kbps                                    | \$200.00        | \$700.00  |
| 128 kbps                                            | 250.00          | 700.00    |
| 256 kbps                                            | 350.00          | 700.00    |
| 512 kbps                                            | 500.00          | 700.00    |
| 1.544 Mbps                                          | 800.00          | 700.00    |
| 44.736 Mbps*                                        | 4,000.00        | 10,000.00 |
| Frame Relay Customer Connection (FRCC),<br>per FRCC |                 |           |
| 1.544 Mbps                                          | 800.00          | 700.00    |
| 44.736 Mbps*                                        | 4,000.00        | 10,000.00 |
| Term Discount, 36 months                            | 15%             | 15%       |
| Term Discount, 60 months                            | 20%             | 20%       |

Standard Committed  
Information Rate

Permanent Virtual  
Connections (PVCs)

|            | Monthly<br>Rent | NRC      |
|------------|-----------------|----------|
| 0-16 kbps  | \$ 5.00         | \$ 50.00 |
| 32 kbps    | 6.00            | 50.00    |
| 56/64 kbps | 7.00            | 50.00    |
| 128 kbps   | 9.00            | 50.00    |
| 256 kbps   | 14.00           | 50.00    |
| 384 kbps   | 20.00           | 50.00    |
| 512 kbps   | 28.00           | 50.00    |
| 768 kbps   | 36.00           | 50.00    |

- DS3, FRAC and FRCC rates and charges do not include lease line costs. A point to point DS3 speed facility is required.

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ACCESS SERVICE

18. RESERVED FOR FUTURE USE