

ACCESS SERVICE

ACCESS SERVICE

Conditions, Rates and Charges applying to the provision of Access Service in the state of Alaska for connection to interstate communications facilities for Interstate Customers within the operating territory of the Issuing Carrier listed on Title Page 2.

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

ACCESS SERVICE

ISSUING CARRIERS

ACS of Alaska, LLC
600 Telephone Avenue
Anchorage, AK 99503

ACS of Anchorage, LLC
600 Telephone Avenue
Anchorage, AK 99503

ACS of Fairbanks, LLC
600 Telephone Avenue
Anchorage, AK 99503

ACS of the Northland, LLC
600 Telephone Avenue
Anchorage, AK 99503

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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

AC	Alternating Current
AML	Actual Measured Loss
ANI	Automatic Number Identification
AP	Program Audio
AT&T	American Telephone and Telegraph Company
BDS	Business Data Services
CCS	Common Channel Signaling
CDP	Customer Designated Premises
CI	Channel Interface
CNP	Charge Number Parameter
CO	Central Office
Cont.	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
dBrnCO	Decibel Reference Noise C-Message Weighted 0
dc	Direct Current
DDD	Direct Distance Dialing
DSL	Digital Subscriber Line

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Explanation of Abbreviations (Cont.)

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 Frequency
ETS	Ethernet Transport Service
EUCT	End User Channel Termination
f	Frequency
F.C.C.	Federal Communications Commission
HC	High Capacity
Hz	Hertz
ICB	Individual Case Basis
ICL	Inserted Connection Loss
IXC	Interexchange Carrier
kbps	kilobits per second
kHz	kilohertz
LATA	Local Access and Transport Area
LRN	Location Routing Number
LNP	Local Number Portability
LSP	Local Service Provider
ma	milliamperes
Mbps	Megabits per second
mcs	Microsecond
MHz	MegaHertz
MRC	Monthly Recurring Charge
MT	Metallic
MTS	Message Telecommunications Service(s)
MTSO	Mobile Telephone Switching Office
NPA	Numbering Plan Area
NRC	Nonrecurring Charge
NXX	Three-Digit Central Office Prefix

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Explanation of Abbreviations (Cont.)

PBX	Private Branch Exchange
PIU	Percent of Interstate Usage
PIC	Presubscribed Interexchange Carrier
POT	Point of Termination
RSMS/NPAC	Regional Service Management System/Number Portability Administration Center
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
TC	Telegraph Grade
TLP	Transmission Level Point
TN	Telephone Number
TV	Television
UNE	Unbundled Network Units
VG	Voice Grade
V&H	Vertical and Horizontal
WATS	Wide Area Telecommunications Service(s)
WSO	WATS Serving Office

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Reference to Other Tariffs

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

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

National Exchange Carrier Association, Inc. (NECA)
Wire Center Information
F.C.C. No. 4

National Exchange Carrier Association, Inc. (NECA)
Provision of Access Service
F.C.C. No. 5

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Reference to Technical Publications

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

Technical Reference:

Multiple Exchange Carrier Access Billing (MECAB) Guidelines

Issued: December, 1990

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines

Issued: September 10, 1990

PUB 41004 Data Communications Using Voiceband Private Line Channels

Issued: October 1973

PUB 62411 High Capacity Digital Service Channel Interface Specification

Issued: October 1985

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

Issued: May 1990

TRN-NPL-000337 Program Audio Special Access Service Local Channel Services

Issued: July 1987

TR-NPL-000341 Digital Data Special Access Service – Transmission Parameter and
Interface Combinations

Issued: March 1989

TR-INS-000342 High Capacity Digital Special Access Service

Issued: February 1991

SR-STS-000307 Issue 2 NC/NCI Code Dictionary

Issued: December 1990

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Reference to Technical Publications (Cont.)

TR-NPL-000341 Digital Data Special Access Service – Transmission Parameter and Interface Combinations
Issued: March 1989

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

SR-STS-000307 Issue 2 NC/NCI Code Dictionary
Issued: December 1990

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

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

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

The following technical publication is referenced in this 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 service guide and may be obtained from the National Exchange Carrier Association, Inc., Executive Director - Tariff and Regulatory Matters, 100 So. Jefferson Road, Whippany, NH 07981 and the Federal Communication's commercial contractor.

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

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Reference to Technical Publications (Cont.)

The following publications are referenced in this 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 service guide and may be obtained from Director-Sales Operations, Integrated Network Corporation, P.O. Box 6875, Bridgewater, N.J. 08807.

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

The following publication is referenced in this service guide and may be obtained from AT&T, 26 Parsippany Road, Whippany, N.J. 07981.

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

The following technical publication is reference in this service guide and may be obtained from the Institute of Electrical and Electronics Engineers, Inc. (IEEE), 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 05588-1331, or through their website at www.ieee.org.

IEEE Std. 802.3, Part 3, Information Technology – Telecommunications and Information Exchange Between Systems – Local and Metropolitan Area Networks.
Issued: May, 2001
Available: May, 2001

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1 Application of Service Guide

- 1.1 This service guide contains regulations, rates, and charges applicable to the provision of Special Access, Universal Service Fund and other miscellaneous services, hereinafter referred to as service(s). These services are provided to customer by the Issuing Carriers of this service guide, hereinafter referred to as the Telephone Company or Company. This service guide also contains Access Ordering regulations and charges that are applicable when these services are ordered or modified by the customer. Special Access Service not subject to Section 203 is provided under this service guide.
- 1.2 The provision of such services by the Telephone Company as set forth in this service guide does not constitute a joint undertaking with the customer for the furnishing of any service.
- 1.3 Exceptions to the rate schedules contained in this service guide are as follows:
 - 1.3.1 ACS of Anchorage, LLC rates are not applicable to Access service customers located in in the Hope Exchange. Rates for the Hope Exchange can be found in the Interstate ACS FCC Tariff No. 1.
 - 1.3.2 ACS of the Northland, LLC Glacier State rates are applicable to Access service customers located in the North Pole Exchange only. Rates for all other ACS of the Northland, LLC Glacier State Exchanges can be found in the Interstate ACS FCC Tariff No. 1.

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2 General Regulations2.1 Undertaking of the Telephone Company2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this 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 service guide.
- (E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this service guide.

ACCESS SERVICE

2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.2 Limitations(A) Assignment or Transfer of Services

The customer may assign or transfer the use of services provided under this 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
- (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 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.

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.2 Limitations (Cont.)(B) Use and Restoration of Services

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

(C) Sequence of Provisioning

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

The first-come, first-served sequence shall be based upon the received time and date recorded, by stamp or other notation, by the Telephone Company on customer access orders. These orders must contain all the information as required for each respective service as delineated in other sections of this 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.

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.3 Liability(A) Limits of Liability

The Telephone Company's liability, if any, for its willful misconduct is not limited by this 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 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.)2.1 Undertaking of the Telephone Company (Cont.)2.1.3 Liability (Cont.)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 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 service guide.

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.3 Liability (Cont.)D) Indemnification of Telephone Company (Cont.)(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 service guide, involving:

- (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 service guide.

(E) Explosive Atmospheres

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

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.3 Liability (Cont.)(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 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 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 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.

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 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.

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.5 Facility Terminations

The services provided under this 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 in 6.4.4 and 7.2.3 following.

2.1.6 Service Maintenance

The services provided under this 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.

2.1.7 Changes and Substitutions

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

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.7 Changes and Substitutions (Cont.)

In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 14 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.

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.

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.8 Refusal and Discontinuance of Service (Cont.)

- (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 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.

- (C) Except as provided for equipment or systems subject to the F.C.C. 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.

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)2.1.8 Refusal and Discontinuance of Service (Cont.)

- (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 Switched 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 tariff or service guide provisions, the regulations of the end office Telephone Company shall apply for joint service discontinuance.
- (E) If the Telephone Company does not refuse additional applications for service and/or does not discontinue the provision of the services as specified for herein, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service and/or to discontinue the provision of the services to the non-complying customer without further notice.
- (F) If the Customer fails to comply with Section 3 herein, including any Customer's failure to make payments on the date and times specified therein, the Telephone Company may, on thirty (30) days' written notice to the Customer by Certified U.S. Mail, take any of the following actions:
- refuse additional applications for service
 - refuse to complete any pending orders for service
 - discontinue the provision of service to the Customer.

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

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2 General Regulations (Cont.)2.1 Undertaking of the Telephone Company (Cont.)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.)2.2 Use2.2.1 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 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 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.)2.3 Obligations of the Customer2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this 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 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.

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 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.

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

Access to facilities used to provide services under this 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.

2.3.6 Balance

All signals for transmission over the facilities used to provide services under this 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.

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2 General Regulations (Cont.)2.3 Obligations of the Customer (Cont.)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.

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 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 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 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.

ACCESS SERVICE

2 General Regulations (Cont.)2.3 Obligations of the Customer (Cont.)2.3.9 Claims and Demands for Damages (Cont.)

- (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 service guide.

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 service guide.

(B) Disputes Involving Jurisdictional Certification – Special Access Service

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 the percentage of interstate traffic. The customer shall supply the data within thirty (30) days of the Telephone Company's request.

ACCESS SERVICE

2 General Regulations (Cont.)

2.3 Obligations of the Customer (Cont.)

2.3.11 Jurisdictional Report and Certification Requirements (Cont.)

(C) Reserved for Future Use

ACCESS SERVICE

2 General Regulations (Cont.)

2.3 Obligations of the Customer (Cont.)

2.3.12 Reserved for Future Use

ACCESS SERVICE

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

The Telephone Company will only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company. Such deposit will not exceed the actual or estimated rates and charges for the service for a two month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations 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.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.1 Payment of Rates, Charges and Deposits (Cont.)(B) Bill Dates

The Telephone Company shall bill on a current basis all charges incurred by and credits due to the customer under this 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 service guide), the period of service each bill covers and the payment date will be as follows:

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.1 Payment of Rates, Charges and Deposits (Cont.)(B) Bill Dates (Cont.)

- (1) 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.
- (2) The bill will cover non-usage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled non-usage 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.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.1 Payment of Rates, Charges and Deposits (Cont.)(C) Payment Dates and Late Payment Penalties

- (1) All bills dated as set forth in (B) preceding for 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.

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.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.1 Payment of Rates, Charges and Deposits (Cont.)(C) Payment Dates and Late Payment Penalties (Cont.)

- (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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.1 Payment of Rates, Charges and Deposits (Cont.)(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.

(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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.1 Payment of Rates, Charges and Deposits (Cont.)(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 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.

(G) Rounding of Charges

When a rate as set forth in this 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 Part-time Video and Program Audio, High Capacity DS1 and DS3 Service, and Ethernet, 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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.2 Minimum Periods (Cont.)

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 non-recoverable costs less the net salvage value for the discontinued service or (2) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in other applicable sections of this 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 service guide or in the event that the protective controls applied by the Telephone Company result in the complete loss of service to 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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(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, D1 through D4 and High Capacity, HC1, Special Access Services, 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.

Credit allowances are computed as follows:

(1) Special Access Service Other Than Program Audio and Video Special Access 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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(B) When a Credit Allowance Applies (Cont.)(1) Special Access Service Other Than Program Audio and Video Special Access Services (Cont.)

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 elements charges associate 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.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(B) When a Credit Allowance Applies (Cont.)(1) Special Access Service Other Than Program Audio
and Video Special Access Services (Cont.)(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. 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 or wire center equipped for Add/Drop Multiplexing to a customer premises, Telephone Company central office or WATS office.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(B) When a Credit Allowance Applies (Cont.)(1) Special Access Service Other Than Program Audio
and Video Special Access Services (Cont.)(d) Reserved for future use

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(B) When a Credit Allowance Applies (Cont.)(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.
- (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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(B) When a Credit Allowance Applies (Cont.)(2) Program Audio and Video Special Access Services
(Cont.)

- (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.

(3) Reserved for Future Use

(4) Credit Allowances Cannot Exceed Monthly Rate

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

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in (B) preceding applies.
- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in Section 15. 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.

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.4 Credit Allowance for Service Interruptions (Cont.)(C) When a Credit Allowance Does Not Apply (Cont.)

- (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 applicable rates and charges for the alternative service used.

(E) Temporary Surrender of a Service

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

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence(A) Nonrecurring Charges Do Not Apply

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

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

(B) Nonrecurring Charges Apply

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

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)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 (A) (1) and (2) following based upon 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) 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 following and arrange to provide the service.

There is one Meet Point Billing Option, Multiple Bill. This billing option is explained following.

Each telephone company must provide meet point billing notification to the customer, in writing, when new service is ordered or thirty (30) days prior to changing an existing meet point arrangement. The notification should include the following:

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

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.7 Access Services Provided By More Than One Telephone Company

(A) Meet Point Billing

(1) Determination of Meet Point Channel Mileage Charges

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

- (a) Determine the appropriate Channel Mileage by computing the number of airline miles between The Telephone Company premises (serving wire centers for Special Access) using the V&H method set forth respectively in 6.4.6 and 7.2.5 of NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5.
- (b) Determine the billing percentage (BP), as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. F.C.C. NO. 4, which represents the portion of the service provided by each Telephone Company.
- (c) Reserved For Future Use

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.7 Access Services Provided By More Than One Telephone Company

(A) Meet Point Billing

(1) Determination of Meet Point Channel Mileage Charges
(Con't)

(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) preceeding, times the BP for each Telephone Company, as set forth in (b) preceeding, 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) of NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 5. (Note: The BP is not applied to either the Channel Mileage Termination Recurring Rate or any Nonrecurring Charge.)

(g) Reserved For Future Use

(h) Reserved For Future Use

(i) Reserved For Future Use

(j) Reserved For Future Use

(k) Reserved For Future Use

(l) Reserved For Future Use

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.7 Access Services Provided By More Than One Telephone Company
(Cont.)(A) Meet Point Billing (Cont.)

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

(1) Multiple Bill Option

Under the Multiple Bill Option each company providing the access service will render an access bill to the customer for its portion of the service based on its access tariff or service guide rates and regulations. Each company will:

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

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

ACCESS SERVICE

2 General Regulations (Cont.)2.4 Payment Arrangements and Credit Allowances (Cont.)2.4.7 Access Services Provided By More Than One Telephone Company
(Cont.)(A) Meet Point Billing (Cont.)(2) Determination of Meet Point Billed Channel Mileage
Charges

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

- (a) Determine the appropriate Channel Mileage by computing the number of airline miles between the Telephone Company premises serving wire centers for Special Access using the V&H method.
- (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) 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.)

ACCESS SERVICE

2 General Regulations (Cont.)2.5 Connections

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

2.6 Definitions

Certain terms used herein are defined as follows:

800 Data Base Access Service

The term "800 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 service guide regarding the provision of 800 Database Access, except where otherwise specified, 800 Database Access Service shall include the following service access codes 800, 888, 877, 866, 855, 844, 833, and 822.

800 Series

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

Access Code

The term "Access Code", denotes a uniform five or seven digit access code assigned by the Telephone Company to an individual customer. The five-digit access code has the form 10XXX, and the seven digit code has the form 950-1XXX or 950-0XXX.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

Actual Cost Special Construction

The term "Actual Cost" denotes all costs charged against a specific case of special construction, including any appropriate taxes.

Annual Underutilization Liability Special Construction

The term "Annual Underutilization Liability" denotes a per unit amount which may be billed annually if fewer services are in use utilizing specially constructed facilities at filed tariff or service guide rates than were originally constructed.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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 Data Services (BDS)

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

Business Day

The term "Business Day" denotes the times of day that a company is open for business. ACS Companies' Business Day hours are 8:30 a.m. to 5:30 p.m., Monday through Friday.

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).

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Central Office (See End Office)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 channels over a DS1 1.544 Mbps High Capacity service via a B8ZS line code format.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)C-Message Noise

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

C-Notched Noise

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

Commingling

The term "Commingling" means the connecting, attaching, or otherwise linking of an unbundled network element (UNE), or a combination of unbundled network elements (UNEs), to one or more facilities or services that a requesting telecommunications carrier has obtained at wholesale from an incumbent LEC, or the combining of a UNE, or a combination of UNEs, with one or more such facilities or services.

Common Line

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

Common Channel Signaling

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

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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

Consumer Digital Subscriber Line (CDSL)

The term "Consumer Digital Subscriber Line" (CDSL) denotes an access technology that allows voice and high speed data to be sent simultaneously over local exchange service copper facilities. CDSL supports a maximum downstream speed of 1.280 mbps (from ACS' network) and a maximum upstream data rate (to ACS' network) of 320 kbps.

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 service guide, including both Interexchange Carriers (ICs) and End Users.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

Destination Point Code

The term "Destination Point Code" denotes a routing label that identifies where the CCS/SS7 signaling message should be sent.

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 Subscriber Line (DSL)

The term "Digital Subscriber Line" (DSL) denotes an access technology that allows simultaneous voice and high speed data to be sent over local exchange service copper facilities.

Digital Switched 56k Service

The term "Digital Switched 56k Service" denotes a switched access optional feature available with Feature Group C or D Access, which provides for data transmission at up to 56 Kilobits or more per second.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

Donor Switch

The term "Donor Switch" denotes the original switch source of a portable NXX code.

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 Address 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.)2.6 Definitions (Cont.)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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

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 service 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 (send) + TLP (receive)].

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Estimated Cost Special Construction

The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes.

Ethernet

The term "Ethernet" denotes a high speed networking technology utilizing a packet-based Ethernet protocol. Ethernet enables broadband multimedia traffic (i.e., voice, data, and video) to be carried over the same network.

Exchange

The term "Exchange" denotes a unit 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.

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.

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

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Facilities Special Construction

The term "Facilities" denotes any cable, poles, conduit, microwave, or carrier equipment, wire center distribution frames, central office switching equipment, etc., utilized to provide interstate services.

First Point of Switching

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

Frequency Shift

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

Global Title

An address such as customer-dialed digits that does not explicitly contain information that would allow routing in the SS7 signaling network, that is, the Global Title Translation function is required.

Global Title Translation

The process of translating a Global Title from dialed digits to a point code (network node) address and application address (subsystem number). This process is accomplished by the STP (Signal Transfer Point) in the SS7 network.

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 service guide, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Host Central Office

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

Hub

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

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 service guide are developed based on the circumstances in each case.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

Initial Liability Period Special Construction

The term "Initial Liability Period" denotes the initial planning period during which the customer expects to place specially constructed facilities in service.

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.

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.

Installed Cost Special Construction

The term "Installed Cost" denotes the total investment (estimated or actual) required by the Telephone Company to provide specially constructed facilities in service.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Location Routing Number

The term "Location Routing Number" denotes a ten-digit number used to uniquely identify a switch that has ported numbers.

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.

Maximum Termination Liability Special Construction

The term "Maximum Termination Liability" denotes the maximum amount which may be billed if all services using specially constructed facilities are terminated prior to the expiration of the Maximum Termination Liability Period.

Maximum Termination Liability Period Special Construction

The term "Maximum Termination Liability Period" denotes the length of time for which a termination charge may apply if all services using specially constructed facilities are terminated.

Message

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

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

Mobile Telephone Switching Office (MTSO)

The term "Mobile Telephone Switching Office (MTSO)" denotes a Cellular Mobile Carrier (CMC) switching system that is used to terminate mobile stations for purposes of interconnection to each other and to trunks interfacing with the public switched network.

N Minus One (N-1)

When more than one network is involved in completing a call, the network prior to the termination (i.e., the N-1 Network) is responsible for querying a LNP database to secure the appropriate LRN to route the call. The N-1 carrier for a local call is usually the Local Exchange Company of the calling party, but may also be a wireless provider. The N-1 Carrier for an interexchange call is usually the calling customer's interexchange carrier.

Net Salvage Special Construction

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

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Nonrecoverable Cost Special Construction

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

Normal Construction

The term "Normal Construction" denotes all facilities the Telephone Company would normally use to provide service in the absence of a requirement for special construction.

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.

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.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Pay Telephone

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

Payphone Service Provider

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

Permanent Facilities Special Construction

The term "Permanent Facilities" denotes facilities providing service for one month or more.

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.

Recipient Switch

The term "Recipient Switch" denotes any end office switch that serves ported NXX codes not originally assigned to that switch.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Recoverable Cost Special Construction

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

Regional Service Management System/Number Portability Administration Center

The term "Regional Service Management System/Number Portability Administration Center" denotes the third party administered number portability data base which maintains information on all ported numbers in a specific geographic area, in this case, the Company's region.

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.

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.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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 Series and 900 codes.

Service Switching Point (SSP)

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

Serving Wire Center

The 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.)2.6 Definitions (Cont.)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 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.

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 signaling problems (instability) are most likely to occur.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)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.

Synchronous Test Line

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

Tandem-Switched Transport

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

Telephone Number

The term "Telephone Number" denotes a unique NPA NXX-XXXX assigned to a subscriber of a Local Service Provider.

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.

Termination Charge Special Construction

The term "Termination Charge" denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period.

ACCESS SERVICE

2 General Regulations (Cont.)2.6 Definitions (Cont.)Transmission Measuring (105 Type) Test Line/Responder

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

Transmission Path

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

Trunk

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

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.)2.6 Definitions (Cont.)Unbundled Network Elements (UNEs)

The term "Unbundled Network Elements" denotes the physical facilities of the network, including the associated features, functions, and capabilities, that are capable of being used in the provision of a telecommunications service, made available pursuant to Section 251 of the Telecommunications Act of 1996.

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.

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 Federal Universal Service Charge

3.1 – 3.3 Reserved for Future Use

3.4 Federal Universal Service Charge

The Federal Universal Service Charge (FUSC) recovers the Telephone Company's contribution to various federal universal service funds. The Telephone Company will apply a surcharge factor each month to the billed charges for interstate access services provided to end users from this service guide.

FUSC will not apply to any billed charges for an end user when the interstate access service provided to the end user qualifies under the federal universal service guidelines for Lifeline Assistance. FUSC will not apply to interstate access services purchased by customers that resell these services to end users as part of an interstate telecommunications service and are required to contribute to the various federal universal service funds. In case of a dispute regarding whether the customer is reselling services and contributing to the various federal universal service funds, the Telephone Company may request a signed certification to that effect from the customer.

The FCC Contribution factor is subject to change quarterly. The current factor can be found at: <http://www.fcc.gov/encyclopedia/contribution-factor-quarterly-filings-universal-service-fund-usf-management-support>

4 ACCESS SERVICE
 RESERVED FOR FUTURE USE

ACCESS SERVICE

5 Access Ordering5.1 General

This section sets forth the regulations and order related charges for services set forth in other sections of this 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 Switched and 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 Section 15 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.)5.1 General (Cont.)5.1.1 Service Installation

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

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

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

Access Services will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in rate sections following.

ACCESS SERVICE

5 Access Ordering (Cont.)5.1 General (Cont.)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 rate sections following applies 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. 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 rate sections following also applies.

To develop, determine and bill the customer the extraordinary costs which may be involved, the Special Construction terms and conditions as set forth in Section 15 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 Section 15.

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

ACCESS SERVICE

5 Access Ordering (Cont.)5.1 General (Cont.)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.

5.2 Ordering Requirements5.2.1 Reserved for Future Use

ACCESS SERVICE

5 Access Ordering (Cont.)5.2 Ordering Requirements (Cont.)5.2.2 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.

ACCESS SERVICE

5 Access Ordering (Cont.)5.2 Ordering Requirements (Cont.)5.2.3 WATS or WATS-Type Services

Special Access Service may be ordered for connection with FGA, FGB, FGC or FGD Switched Access Service at Telephone Company designated WATS Serving Offices (WSOs) for the provision of WATS or WATS-type Services and may be ordered separately by a customer other than the customer which orders the FGA, FGB, FGC or FGD Switched Access Service. For the Special Access Service the customer shall specify:

- the customer designated premises at which the Special Access service terminates
- the type of line (i.e., two-wire or four-wire)
- the type of calling (i.e., originating, terminating or two-way)
- type of Supervisory Signaling.

5.2.4 Mixed Use Facilities - Switched and Special Access

Mixed use is the provision of both Switched and Special Access Services over the same High Capacity 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 6.4.7 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.)5.2 Ordering Requirements (Cont.)5.2.5 Miscellaneous Services

Testing Service, Additional Labor, Telecommunications Service Priority and Special Facilities Routing shall be ordered with an Access Order or may subsequently be added to a pending order at any time up to and including the service date for the access service. When miscellaneous services are added to a pending order a service date change may be required. When a service date change is required, the service date change charge as set forth in 17.4.1(B) following will apply. When miscellaneous services are added to a pending order, charges for a design change as set forth in rate sections 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 rate sections of this service guide, will apply in addition to the ordering charges set forth in rate sections 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.)5.2 Ordering Requirements (Cont.)5.2.6 Ethernet Transport Service (ETS)

When placing an order for ETS, the customer must specify:

- the customer-designated premises
- the type(s) of ETS Port interface(s)
- the speed for each ETS Port;
- the number and bandwidth capacity for each ETS Channel Termination (ETS CT) associated with an ETS Port;
- options desired, if applicable;
- that the traffic consists of more than 10% interstate traffic.

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

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 Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company.

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in 2.4.7 preceding, to be used by the Telephone Companies involved in providing the Access Service.

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.

ACCESS SERVICE

5 Access Ordering (Cont.)5.4 Charges Associated with Access Ordering5.4.1 Access Order Charge

The Access Order Charge is applied to all customer requests for new Special and Switched Access Service and Directory Assistance Service. In addition, the Access Order Charge is applicable to customer requests for additions, changes or rearrangements to existing Special and Switched Access Service and Directory Assistance 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 6.4.1(B)(3) and 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 tariff rate prior to the expiration of the ICB.

ACCESS SERVICE

5 Access Ordering (Cont.)5.4 Charges Associated with Access Ordering (Cont.)5.4.1 Access Order Charge (Cont.)

The Access Order Charge will be applied on a per order basis to each order received by the Telephone Company or copy of an order received by the Telephone Company, except by the Telephone Company applying the Interim NXX Translation charge, and is in addition to other applicable charges as set forth in this and other sections of this service guide.

5.4.2 Miscellaneous Service Order Charge

A Miscellaneous Service Order Charge, as set forth in rate sections following, applies to any service, or combination of services ordered simultaneously from Section 13 of the service guide 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)

ACCESS SERVICE

5 Access Ordering (Cont.)5.4 Charges Associated with Access Ordering (Cont.)5.4.2 Miscellaneous Service Order Charge (Cont.)

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(A)(1) and 13.3.1(B)(1)];

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 17.4.1(B) and (C) will apply on a per occurrence basis.

Any increase in the number of Special Access Service channels or Switched Access Service lines, trunks, CCS/SS7 Port Terminations, ETS Ports, or ETS Channel Terminations 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.)5.4 Charges Associated with Access Ordering (Cont.)5.4.3 Access Order Change Charges (Cont.)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 17.4.1(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.)5.4 Charges Associated with Access Ordering (Cont.)5.4.3 Access Order Change Charges (Cont.)(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 or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer designated premises, first point of switching, Feature Group type or Special Access Service channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if 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 17.4.1(C) following will apply in addition to the charge for Additional Engineering as set forth in 17.4.2 following. If a change of service date is required, the Service Date Change Charge as set forth in 17.4.1(B) following will also apply. The Access Order Charge as specified in 17.4.1 following does not apply.

ACCESS SERVICE

5 Access Ordering (Cont.)5.5 Minimum Periods and Cancellations5.5.1 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 Switched Access High Capacity DS3 Entrance Facilities and Direct Trunked Transport is as set forth in 6.1.3 following. The minimum period for High Capacity DS1 and DS3 Special Access Services is as set forth in 7.2.4 following. The minimum period for Ethernet Transport Service is as set forth in Section 16.3.4, following.

The minimum period for which Directory Assistance Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

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

ACCESS SERVICE

5 Access Ordering (Cont.)5.5 Minimum Periods and Cancellations (Cont.)5.5.2 Development of Minimum Period Charges

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

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

- (A) Reserved For Future Use
- (B) For Special Access Service, and flat rated Switched Access Service, 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.

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.)5.5 Minimum Periods and Cancellations (Cont.)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.)5.5 Minimum Periods and Cancellations (Cont.)5.5.3 Cancellation of an Access Order (Cont.)

- (B) When a customer cancels an Access Order for the installation of service, a Cancellation Charge will apply as follows:
- (1) Installation of Switched or Special Access Service facilities is considered to have started when the Telephone Company incurs any cost in connection 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 for Switched or Special Access Service ordered by the customer, as set forth in 5.5.2 preceding.

ACCESS SERVICE

5 Access Ordering (Cont.)

5.5 Minimum Periods and Cancellations (Cont.)

5.5.3 Cancellation of an Access Order (Cont.)

- (C) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.
- (D) When a customer cancels an order for the installation of Digital Subscriber Line Access Service, as set forth in Section 8, no charges apply for the cancellation.
- (E) 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 or Switched Access Service lines, trunks, CCS/SS7 Port Terminations, ETS Ports, or ETS Channel Terminations will be treated as a partial cancellation and charges will be determined as set forth in 5.5.3(B) preceding.

ACCESS SERVICE

6 Reserved for Future Use

ACCESS SERVICE

7 Special Access Service

As of August 1, 2017, Special Access Services were changed to a Competitive or Non-Competitive designation. Non-Competitive End-User Channel Terminations (EUCTs) are filed as part of Tariff F.C.C. No. 1 and remain under Price Cap Regulation. Other Special Access Services required to complete the circuit are covered by this ISG.

The following areas are deemed Non-Competitive for Special Access EUCTs and are covered by Tariff F.C.C. No. 1. Areas not listed are deemed Competitive for Special Access Services and are covered by this ISG.

ACS of Anchorage, LLC			
<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>		
*Hope	*		

ACS of the Northland, LLC - Glacier State			
<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>	<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>
Delta Junction	DLJTAKXA	Nenana	NENAAKXA
Ft Greely	FTGRAKXA	Ninilchik	NCHKAKXA
Homer	HOMRAKXA	North Kenai	NKENAKXA
Kenai	KENAAKXA	Seldovia	SLDVAKXA
Kodiak	KODKAKXC	Soldotna	SLDTAKXA
Kodiak Base	KODKAKAG		

ACS of the Northland, LLC - Sitka			
<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>	<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>
Akhiok	AKHKAKXA	Larsen Bay	LRBAAKXA
Akutan	AKTNAKXA	Meshik/Pt Heiden	MSHKAKXA
Angoon	ANGNAKXA	Nelson Lagoon	NLLGAKXA
fcAtka	ATKAAKXA	Nikolski	NKLIAKXA
Border City	BRCYAKXA	Nondalton	NDLTAKXA
Chignik	CGNKAKXA	Northway	NRWYAKXA
Chignik Lagoon	CGLGAKXA	Nulato	NULTAKXA
Chignik Lake	CGLKAKXA	Old Harbor	OLHBKAKXA
Coffman Cove	CFCVAKXA	Ouzinkie	OUZKAKXA
Egegik	EGEKAKXA	Pedro Bay	PDBAAKXA
Elfin Cove	EFCVAKXA	Pelican	PLCNAKXA
English Bay/Nanwalek	EHBAKXA	Perryville	PYVLAKXA
False Pass	FLPSAKXA	Pilot Point	PLPTAKXA
Gustavus	GSTVAKXA	Point Baker	PNBKAKXA
Halibut Cove	HTCVAKXA	Port Alexander	PTALAKXA
Hoonah	HONHAKXA	Port Alsworth	PTAHAKXA
Hughes	HGHSKXA	Port Graham	PTGMKXA
Huslia	HUSLAKXA	Port Protection	PTPRKXA

ACCESS SERVICE

7 Special Access Service (Cont'd)

ACS of the Northland, LLC - Sitka			
<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>	<u>Serving Wire Center</u>	<u>8-Digit CLLI Code</u>
Kake	KAKEAKXA	Sitka	SITKAKXA
Kakhonak	KHNKAKXA	St George	STGRAKXA
Kaltag	KLTGAKXA	St Paul	STPLAKXA
Karluk	KRLKAKXA	Tenakee Springs	TKSPAKXA
Kasaan	KASNAKXA	Thorne Bay	THBYAKXA
Klawock	KLWKAK01	Yakutat	YKUTAKXA
Koyukuk	KYKKAKXA		
Kake	KAKEAKXA	Sitka	SITKAKXA

*Note: ACS of Anchorage, LLC provides Special Access Non-Competitive EUCTs in the Hope area only which does not have a serving wire center. Non-Competitive Special Access EUCT for the Hope area may be ordered through a Competitive Serving Wire Center.

ACCESS SERVICE

7 Special Access Service (Cont'd)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, or to connect a customer designated premises to a DSL Access Service Connection Point. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

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

7.1.1 Channel Types

Each type of Special Access channel 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.

ACCESS SERVICE

7 Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont.)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in Section 14 following, optional features and functions are described in this section. Channel interfaces are described in 14.2 following.

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

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

The channel descriptions provided in 7.4 through 7.8 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, or between a customer designated premises and an DSL Access Service Connection Point, or between a Telephone Company serving wire center equipped with Ethernet Transport Service (ETS) and another telephone company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory.

- (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 14.2 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)7.1.2 Service Descriptions (Cont.)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in Section 14 following, optional features and functions are described in this section. Channel interfaces are described in 14.2 following.

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

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

The channel descriptions provided in 7.4 through 7.8 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, or between a customer designated premises and an DSL Access Service Connection Point, or between a Telephone Company serving wire center equipped with Ethernet Transport Service (ETS) and another telephone company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory.

- (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 14.2 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)7.1.2 Service Descriptions (Cont.)

- (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 14.2 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 14.2 following with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (E) The Telephone Company will maintain services installed prior to April 1, 1985, at their existing transmission specifications provided such performance specifications do not exceed the standards listed in this provision. Those services exceeding the standards listed will be maintained at the performance levels specified in this service guide.
- (F) All services installed after April 1, 1985 will conform to the transmission specifications standards contained in this service guide or in the following Technical References for each category of service:

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)7.1.2 Service Descriptions (Cont.)

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

Voice Grade	TR-TSY-000335 PUB 41004, Table 4
Program Audio	TR-NPL-000337 and associated Addendum
Video	TR-NPL-000338
Digital Data	TR-NPL-000341 and associated Addendum PUB 62310
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

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)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 DSL Access Service Connection Point, or a customer designated premises and a WATS Serving Office (WSO).

Applicable rate elements are:

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

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

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)7.1.3 Service Configurations (Cont.)(A) Two-Point Service (Cont.)

Applicable rate elements for Special Access are:

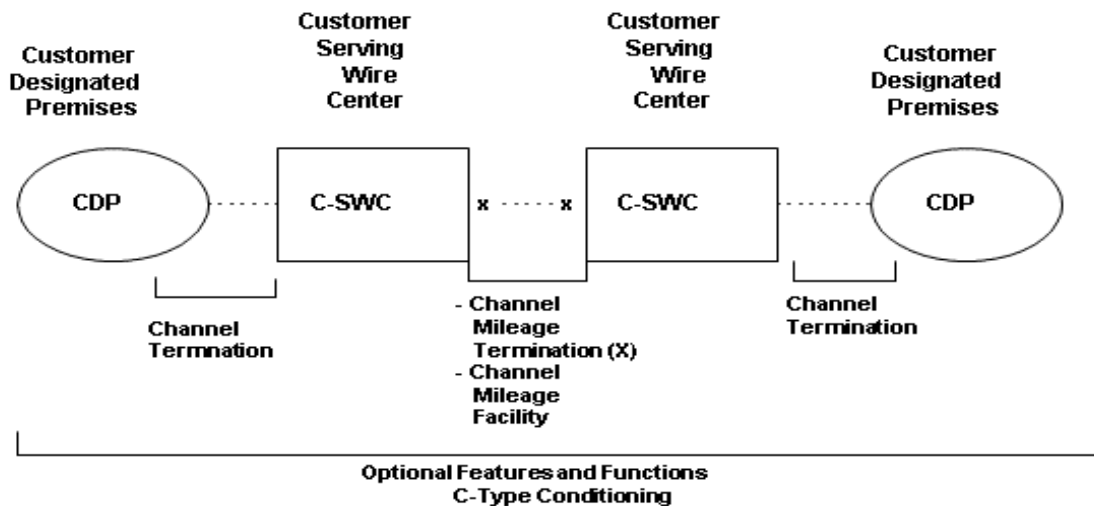
- Channel Termination
- Channel Mileage
.2 Channel Mileage Terminations plus
.1 section, Channel Mileage Facility per mile
- Special Access Surcharge*

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 to (CDP). The service is provided with C-Type conditioning.

Applicable rate elements for Special Access are:

- Channel Termination (applicable one (1) per CDP)
- Channel Mileage
.2 Channel Mileage Terminations plus
.1 section, Channel Mileage Facility per mile



* May not apply if exemption certification is provided.

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)7.1.3 Service Configurations (Cont.)(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 14.2 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:

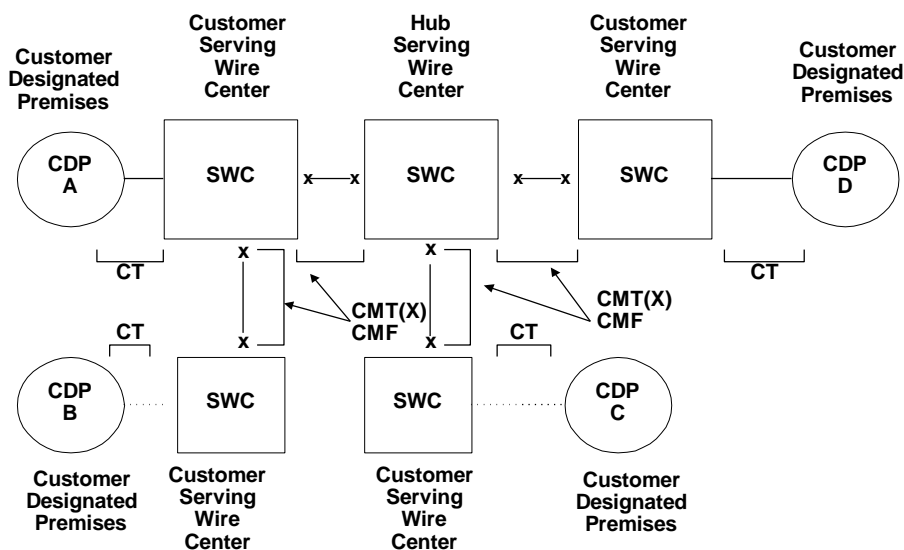
- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)7.1.3 Service Configurations (Cont.)(B) Multipoint Service (Cont.)

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

Applicable rate elements are:

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

ACCESS SERVICE

7 Special Access Service (Cont.)7.1 General (Cont.)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 tariff rates for the Access Service rate elements for the service ordered [i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)].

7.1.5 Special Facilities Routing

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

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this 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.)7.1 General (Cont.)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 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.)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 Termination

The Channel Termination rate category recovers the costs associated with the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement 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.

For a Metallic Service connecting to a DSL Access Service Connection Point, for interconnection with a wireline broadband Internet Transmission service provided by the Telephone Company under this service guide or for interconnection with a wireline broadband Internet transmission service provided on a non-tariffed, common carrier basis, there will be a charge for two Channel Terminations for each DSL Access Service Connection functions ordered.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.1 Rate Categories (Cont.)(A) Channel Termination (Cont.)

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, except as provided for below. The Channel Termination charge will not apply when: 1) the customer designated premises and serving wire center are physically (including caged, cageless, shared and adjacent arrangements) or virtually collocated as those terms are used in 47 CFR § 51.323 and, 2) the customer obtains such collocation for the purpose of interconnection with the Company's network for the transmission and routing of telephone exchange service, exchange access service or both, and for the purpose of providing local exchange or exchange access services to its customers.

For DS3 High Capacity Service, the Channel Termination rates are made up of the DS3 Facility rate and the DS3 Channel Interface Connection rate. The Facility rate is dependent upon the capacity ordered (i.e. Facility of 3, 6 or 9) and may be applicable at each customer designated premises. The capacity ordered is the maximum number of DS3 services that can be terminated on a given Facility at the customer designated premises (e.g., a capacity of 3 can terminate 1, 2, or 3 DS3 Channel Interface Connections). The DS3 Facility may be customer provided.

One DS 3 Channel Interface Connection rate applies per customer designated premises at which the channel is terminated for each DS3 channel that is ordered. This charge applies whether or not the DS3 Facility is customer provided.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.1 Rate Categories (Cont.)(A) Channel Termination (Cont.)

For a 44.736 Mbps High Capacity Service connecting a customer designated premises to a DSL Access Service Connection Point as described in Section 8, following, or for an OC3 or OC12 Synchronous Optical Channel Service connecting a customer designated premises to an Ethernet Transport Service as described in Section 16.3, following, there will be a charge for only one Channel Termination. However, for a 44.736 Mbps High Capacity Service connecting a customer designated premises to a DSL Access Service Connection Point where the customer is collocated in the same central office as the DSL Access Service Connection Point, the Channel Termination Charge is waived.

(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), or between a Telephone Company serving wire center equipped with ETS and another telephone company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.1 Rate Categories (Cont.)(B) Channel Mileage (Cont.)(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 a Telephone Company serving wire center equipped with ETS and another telephone company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory, no Channel Mileage Termination Rate will apply. 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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.1 Rate Categories (Cont.)(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

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. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations, and the type of bridging or multiplexing functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 7.4 through 7.8 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)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.

(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 17.4.1 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.2 Types of Rates and Charges (Cont.)(C) Nonrecurring Charges (Cont.)(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 17.4.1 following will apply per order.

(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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.2 Types of Rates and Charges (Cont.)(C) Nonrecurring Charges (Cont.)(3) Service Rearrangements

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.

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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.2 Types of Rates and Charges (Cont.)(C) Nonrecurring Charges (Cont.)(3) Service Rearrangements (Cont.)

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 17.4.1 following.
- 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 17.4.1 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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)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 17.4.1 following.

(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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)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 is twelve months.

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,
- a serving wire center equipped with ETS and another telephone company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory,
- a serving wire center associated with a customer designated premises and a DSL Access Service Connection Point,
- 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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.5 Mileage Measurement (Cont.)

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. When more than one Telephone Company is involved in the provision of service, billing will be accomplished as set forth in 2.4.7 preceding.

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

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)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., 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 and the type of multiplexing functions available.

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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.6 Facility Hubs (Cont.)

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. Except as provided for in Section 7.2.1(A) preceding, 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 (when applicable), 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 duplexed. 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.

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 17.3.3 and 17.3.4 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.6 Facility Hubs (Cont.)

When the service is ordered to a hub, the customer may order a 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.

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 previously, 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 (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed use facility.

ACCESS SERVICE

7 Special Access Service (Cont.)7.2 Rate Regulations (Cont.)7.2.7 Mixed Use Analog and Digital High Capacity Services (Cont.)

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, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

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

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

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

ACCESS SERVICE

7 Special Access Service (Cont.)7.3 Surcharge for Special Access7.3.1 General

Special access services provided under this 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 analog channel termination that is used for radio or television program transmission; or
 - (2) a termination used for TELEX service; or
 - (3) 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
 - (4) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to 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

ACCESS SERVICE

7 Special Access Service (Cont.)7.3 Surcharge for Special Access (Cont.)7.3.2 Application (Cont.)

- (5) 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 the time the Special Access Service is ordered or installed; or
 - at such time as the service is reterminated to a device which does not interconnect the service to local exchange facilities.
- (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 reterminated 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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.3 Surcharge for Special Access (Cont.)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.

- (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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.3 Surcharge for Special Access (Cont.)7.3.4 Rate Regulations (Cont.)

- (D) 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.

7.4 Voice Grade Service7.4.1 Basic Channel Description

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

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

Rates and charges for Special Access Voice Grade Service are as set forth in 17.3.2 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.4 Voice Grade Service (Cont.)7.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(A) following. Compatible network channel interfaces are set forth in 14.2.2(C)(1) following.

7.4.3 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)

The rates for these options are set forth in 17.3.2(C)(1) following.

(B) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. The rates for these options are set forth in 17.3.2(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.

(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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.4 Voice Grade Service (Cont.)7.4.3 Optional Features and Functions (Cont.)(B) Conditioning (Cont.)(2) Data Capability (D Conditioning)

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

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 17.3.2(C)(2) following.

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

(C) 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 17.3.2(C)(3) following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.4 Voice Grade Service (Cont.)7.4.3 Optional Features and Functions (Cont.)(C) Improved Return Loss (Cont.)

- (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 17.3.2(C)(3) following.

(D) 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 17.3.2(C)(4) 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.

ACCESS SERVICE

7 Special Access Service (Cont.)7.4 Voice Grade Service (Cont.)7.4.3 Optional Features and Functions (Cont.)(E) 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 17.3.2(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.

7.5 Program Audio Service7.5.1 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 17.3.3 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.5 Program Audio Service7.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(B) following. Compatible network channel interfaces are set forth in 14.2.2(C)(2) following.

7.6 Video Service7.6.1 Basic Channel Description

A channel for the digital transmission of a standard North American Television Standards Committee (NTSC) video signal at a bit rate of 1.544 or 44.736mbps.

The equipment necessary to provide Video Conferencing and Miscellaneous Video Distribution services on DS1/T1 facilities follows:

(A) DS1 Video Teleconferencing - Duplex

This service provisions a full duplex (transmit and receive) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rate of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit and receive) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to multiple rate (nx64 Kbps) video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Standard repeated or repeaterless T1 facilities are used between central offices and customer premises to provide video signal transport. Metallic or fiber optic span line equipment can be used to transport the video signal between central offices.

Customer premise site B - same equipment as site A.

ACCESS SERVICE

7 Special Access Service (Cont.)7.6 Video Service (Cont.)7.6.1 Basic Channel Description (Cont.)(B) DS1 Video Teleconferencing - Simplex

This service provisions a simplex (transmit only) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rates of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same equipment as Duplex facilities above.

Customer premise site B - video and audio (receive only) signal to a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to DSU/CSU which terminates the line provided on local central office facilities.

ACCESS SERVICE

7 Special Access Service (Cont.)7.6 Video Service (Cont.)7.6.1 Basic Channel Description (Cont.)(C) DS1 Video Distribution - Simplex

This service provisions a simplex (transmit only) video distribution link (video jukebox, local hockey or basketball game etc.) over DS1/T1 facilities. The codec for this service operates at a line rate of T1 (1.544 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard NTSC video source is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same as Duplex facilities above.

Customer premise Site B - video and audio (receive only) signal to a standard NTSC video receiving unit is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Rates and charges for Special Access Video Service are set forth in 17.3.4 following.

ACCESS SERVICE

7 Special Access Service (Cont.)7.7 Digital Data Service7.7.1 Basic Channel Description

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* 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 and a Telephone Company hub or hubs. The hubs providing 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 17.3.5 following.

*When 64.0 Kbps service is multiplexed on a DS-1 High Capacity Service, The DS-1 must be equipped to provide a Clear Channel Capability. 64.0 Kbps service is offered to Utility customers subject to the availability of facilities and to Utility engineering and network constraints.

ACCESS SERVICE

7 Special Access Service (Cont.)7.7 Digital Data Service (Cont.)7.7.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(D) following. Compatible channel interfaces are set forth in 14.2.2(C)(3) following.

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

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

7.7.3 Optional Features and Functions

The Optional Features and Functions described following is only available where Digital Data Service is provided via a hub.

7.7.4 Central Office Bridging Capability

The table set forth in 14.2.1(D) following shows the technical specifications packages with which the optional feature and function is available. Bridging is not available on a 64.0 Kbps channel.

ACCESS SERVICE

7 Special Access Service (Cont.)7.8 High Capacity Service7.8.1 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. In addition, a 44.746 Mbps High Capacity Service channel may be provided between a customer designated premises and a Telephone Company designated DSL Access Service Connection Point.

Additionally, a 44.736 Mbps High Capacity Service channel may be provided between a customer designated premises and a serving wire center equipped with Ethernet Transport Service (ETS) and another telephone company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory.

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 17.3.6 following.

± Available only as a channel of 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 Kbps channels of two 1.544 Mbps facilities to a Digital Data hub(s). The customer must provide system and channel assignment data.

ACCESS SERVICE

7 Special Access Service (Cont.)7.8 High Capacity Service (Cont.)7.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(E) following. Compatible channel interfaces are set forth in 14.2.2(C)(4) 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)

7.8.3 Optional Features and Functions(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

* 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.)7.8 High Capacity Service (Cont.)7.8.3 Optional Features and Functions (Cont.)(B) 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 the converts a 44.736 Mbps 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 23 64.0 Kbps channels utilizing digital time division multiplexing.

ACCESS SERVICE

7 Special Access Service (Cont.)7.8 High Capacity Service (Cont.)7.8.3 Optional Features and Functions (Cont.)(B) Central Office Multiplexing (Cont.)(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 14.2.1(E) following shows the technical specifications packages with which the optional features and functions are available.

(C) 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.

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

ACCESS SERVICE

7 Special Access Service (Cont.)7.8 High Capacity Service (Cont.)7.8.3 Optional Features and Functions (Cont.)(C) Clear Channel Capability (CCC) (Cont.)

- (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 put 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.

(D) DSL Access Service Connection

- (1) The DSL Access Service Connection function provides for the interconnection of a 44.736 Mbps High Capacity Service, or a 100 Mbps Ethernet Service, with DSL Access Service as described in Section 8 following.

Rates and charges for the DSL Access Service Connection function are as set forth in Section 17.3.6, following. This function applies to each 44.736 Mbps High Capacity Service, or 100 Mbps Ethernet Service, terminated at an DSL Access Service Connection Point.

ACCESS SERVICE

7 Special Access Service (Cont.)7.9 Transparent LAN Service-High Speed ("TLS")7.9.1 Service Description

Transparent LAN Service-High Speed ("TLS") is a high speed (10 Mbps, 100 Mbps and 1 Gbps) shared transport service for the interconnection of Wide Area Networks ("WANs") and Local Area Networks ("LANs"). A LAN is a network permitting the interconnection and intercommunication of a group of computers while a Wide Area Network typically extends outside the building to link with other LANs.

TLS serves as a WAN or LAN extension by providing a virtual private circuit that utilizes public transport. The service is bi-directional, providing high capacity service over private virtual circuits.

The electrical signals provided by TLS are put onto suitable facilities for transport to the network management equipment in a Company central office.

TLS is provided over suitable facilities, and can be provided on a point-to-point or multi-point basis. Where possible, service will be provided over existing Company facilities.

(A) Service Elements

- (1) Port Connection – A port connection provides the link from a customer's terminal equipment, at the network interface, to the Company's network supporting TLS. The port connection includes a network interface, and the related fiber optic facility. A monthly rate applies per port.
- (2) Connection Bandwidth – The Connection Bandwidth connects two or more ports and is charged on a port and bandwidth basis. For TLS rates, see Section 17.3.7.

ACCESS SERVICE

7 Special Access Service (Cont.)7.9 Transparent LAN Service-High Speed ("TLS") (Cont.)7.9.2 General Regulations

- (A) TLS is available on a point-to-point or multi-point basis, 24 hours a day, 7 days per week.
- (B) The number of port connections in a multi-point arrangement is limited by the technological capabilities of the network.
- (C) TLS utilizes public, shared transport to provide a virtual private circuit arrangement. A non-shared TLS arrangement is not available.
- (D) TLS complies with the Ethernet standards prescribed under the I.E.E.E. 802.3. Maximum utilization will be typical for Ethernet LAN and may not achieve the full bandwidth rating of the carrier.
- (E) Equipment interoperability cannot be guaranteed and may vary by manufacturer. In addition, there may be limitations on some proprietary protocols.
- (F) TLS can only be provided where suitable facilities and equipment are available. Where suitable facilities are not available, it may be necessary to construct such facilities. Special construction may be necessary pursuant to Section 15.1.6(B). Refer to Section 13 for Additional Engineering, Labor and Miscellaneous Services that may apply.
- (G) For TLS, equipment space furnished by the customer under the terms in Section 2.3, Obligations of the Customer, will be secured by the Company. This space must be accessible exclusively to the Company, as if the Company were a lessee.

ACCESS SERVICE

7 Special Access Service (Cont.)7.9 Transparent LAN Service-High Speed ("TLS") (Cont.)7.9.3 Rate Regulations

- (A) The initial order for TLS must be for a fixed service period of one, three, or five years. At the end of the initial service period, the customer has 30 days in which to select an additional term commitment for any of the service periods specified, or may elect the month-to-month option. If the customer does not sign a term commitment by the end of the 30 day period, the customer will automatically be charged the month-to-month rate.
- (B) A subsequent order to add TLS ports to an existing TLS network must be for a fixed-period of one, three, or five years, or for the remainder of the customer's existing fixed-period service agreement. The minimum service period for additional TLS service elements is 12 months.
- (C) Ports are priced at the rate for the total number of ports purchased for the term of the agreement. For example, if a customer purchases four 10 Mbps ports and two 100 Mbps ports, the customer is purchasing 6 ports total. The rates applied are four 10 Mbps and two 100 Mbps rates at the 6 port level. Customers with 14 or more ports shall pay the 14 port rate.
- (D) If a fixed period agreement is terminated prior to the end of the period, the customer is responsible for reimbursing the Company the difference between the rates actually charged and the rates that would have been charged, had the actual period been the original service period, plus a 10% administrative fee. For example, if a customer agrees to a five-year term and cancels service after three years, the Company will charge the customer the difference between the five-year rate and the three-year rate for three years, plus the 10% administrative fee.

ACCESS SERVICE

7 Special Access Service (Cont.)7.9 Transparent LAN Service-High Speed ("TLS") (Cont.)7.9.3 Rate Regulations (Cont.)

- (E) If the customer reduces either the number of ports, or total bandwidth, below 70% of their initial fixed period service agreement, the terminated ports will be considered a termination of the fixed period service agreement and reimbursement will be due the Company pursuant to Section 7.10.3.4 on the discontinued ports or bandwidth. In service ports will be re-rated based on the total number of remaining ports.
- (F) If the customer increases the number of ports after executing the initial term of service agreement, they have two options:
 - (1) sign a fixed term agreement for the additional ports; or
 - (2) request that the new ports be added to an existing fixed period agreement (for not less than 12 months) and re-rate the agreement based on the total number of ports in service.

For example, if the customer has four five-year ports and adds one port two years later, the customer may enter a fixed year agreement for one, three year port, or request the existing fixed term agreement be modified to a five port agreement.

Rates are prospective only when re-rating of fixed term agreements occur because of adding ports, deleting ports, increasing bandwidth, decreasing bandwidth, or extending fixed term agreements.

- (G) Termination liabilities set forth in Section 7.10.3.4 will be waived for local, state, or federal governments that sign a minimum one-year term commitment with the option for four one-year renewals if termination is caused by a failure to achieve appropriation of funds during the renewal period.

ACCESS SERVICE

7 Special Access Service (Cont.)7.9 Transparent LAN Service-High Speed ("TLS") (Cont.)7.9.4 Planned Service Interruption

- (A) Occasionally, routine maintenance will result in an interruption of service. Planned interruptions of service will be scheduled to occur outside the Company's normal business day as defined in Section 2.6.
- (B) Customers will be notified 10 working days prior to a planned interruption. The 10 working day notice begins upon the Company's notification to the customers' primary contact, by telephone. This contact will include the date, time, and estimated duration of the service interruption. This telephone contact will represent the Company's compliance with the 10 working day notification requirement.
- (C) The Company will fax or email the customer confirmation of the scheduled interruption. The Company requests acknowledgement from the customer that this information has been received, however, the Company will proceed with the scheduled maintenance without the customer's acknowledgement.

7.9.5 Transparent LAN Service - High Speed ("TLS") Promotion

Beginning August 18, 2001 and ending March 31, 2002, customers who sign a one, three, or five year fixed period agreement, will receive a credit equal to the Access Order Charge and the nonrecurring charge.

To qualify, customers must request to sign up for the promotion.

If the customer terminates service pursuant to Section 7.10.3.4, the customer will pay all credits received under this promotion in addition to the charges assessed in Section 7.10.3.4. The Company will bill the customer an amount equal to the credits.

ACCESS SERVICE

7 Special Access Service (Cont.)7.10 Transparent LAN Service-Lite ("TLS-Lite")7.10.1 Service Description

Transparent LAN Service-Lite ("TLS-Lite") is a 768 Kbps and a 1 Mbps through 9 Mbps transport service for the interconnection of Ethernet Local Area Networks ("LANs") and Wide Area Networks (WANs). TLS-Lite is provided over copper facilities and can be provided on a point-to-point or multi-point basis.

TLS-Lite serves as a LAN extension by providing a virtual private circuit that utilizes public transport. The service is bi-directional, providing high capacity service over private virtual circuits. Customers must subscribe to TLS-Lite Port service or may interconnect with Transparent LAN Service-High Speed ("TLS") as a data link.

The electrical signals provided by TLS-Lite at the network interface meet IEEE 802.3 requirements. At the central office, the network management information is used to maintain network performance and integrity.

(A) Service Elements

Port Connection – A port connection provides the link from a customer's terminal equipment, to the Company's network supporting TLS-Lite. A port connection includes a network interface, and the related copper facility.

Line Loop Extender – Customers located further than 9,000 feet from the serving wire center may require the use of a Line Loop Extender. Customers located further than 18,000 feet may require the use of two Line Loop Extenders.

ACCESS SERVICE

7 Special Access Service (Cont.)7.10 Transparent LAN Service-Lite ("TLS-Lite") (Cont.)7.10.2 General Regulations

- (A) The number of ports in a multi-point arrangement is limited by the technological capabilities of the network.
- (B) When transport occurs between central offices to connect a customer location, customers must purchase a TLS-Lite port per customer location pursuant to Section 17.3.9, or Transparent LAN Service-High Speed ("TLS").
- (C) Equipment space furnished by the customer under the terms in Section 2.3.3 will be secured by the Company. This space must be accessible exclusively to the Company, as if the Company were the lessee.
- (D) TLS-Lite complies with Ethernet standards prescribed under IEEE 802.3. Maximum utilization will be typical for Ethernet LAN and may not achieve the full bandwidth rating of the stated service.
- (E) Equipment interoperability cannot be guaranteed and may vary by manufacturer. In addition, there may be limitations on some proprietary protocols.
- (F) TLS-Lite can only be provided where facilities and equipment are available. Where possible, service will be provided over existing Company facilities. Where suitable facilities are not available, it may be necessary to construct such facilities. Additional charges may be assessed pursuant to Section 15.1.6. These charges are in addition to the TLS-Lite rate elements in Section 17.3.9.

ACCESS SERVICE

7 Special Access Service (Cont.)7.10 Transparent LAN Service-Lite ("TLS-Lite") (Cont.)7.10.3 Rate Regulations

- (A) The initial order for TLS-Lite must be for a fixed service period of one, three, or five years. At the end of the initial service period, the customer has 30 days in which to select an additional term commitment for any of the service periods specified, or may elect the month-to-month option. If the customer does not sign a term commitment by the end of the 30-day period, the customers will automatically be charged the month-to-month rate.
- (B) Customers may elect to spread their TLS-Lite non-recurring charges over one year. If the customer elects to terminate their fixed period agreement, the customer must remit any unpaid portion of the non-recurring charges to the Company.
- (C) A subsequent order to add any TLS-Lite ports to an existing TLS-Lite network must be for a fixed-period of one, three, or five years, or for the remainder of the customer's existing fixed-period service agreement. The minimum service period for additional TLS-Lite ports is 12 months.
- (D) Ports are priced at the rate for the total number of ports purchased for the term of the service agreement. Customers with 14 or more ports shall pay the 14-port rate.
- (E) If the customer increases the number of ports after executing the initial term of service agreement, they have two options:
 - (1) sign a fixed term agreement for only the additional port(s); or
 - (2) request that the new port(s) be added to an existing fixed period agreement (for not less than 12 months) and re-rate the agreement based on the total number of ports in service.

ACCESS SERVICE

7 Special Access Service (Cont.)7.10 Transparent LAN Service-Lite ("TLS-Lite") (Cont.)7.10.3 Rate Regulations (Cont.)

For example, if the customer has four ports under a five-year term and adds one port two years later, the customer may enter a fixed term agreement for one port, for three years, or request the existing fixed term agreement be modified to a five port agreement.

- (F) Rates are prospective only when re-rating of fixed term agreements occur because of adding ports, deleting ports, or extending fixed term agreements.
- (G) If a fixed period agreement is terminated prior to the end of the period, the customer is responsible for reimbursing the Company the difference between the rates actually charged and the rates that would have been charged, had the actual period been the original service period, plus a 10.5% finance charge, compounded annually. For example, if a customer agrees to a five-year term and cancels service after three years, the Company will charge the customer the difference between the five-year rate and the three-year rate for three years, plus 10.5% finance charge.
- (H) If the customer reduces the number of ports below 70% of their initial fixed period service agreement, the terminated ports will be considered a termination of the fixed period service agreement and reimbursement will be due the Company pursuant to Section 7.11.3.(G) on the discontinued ports. In-service ports will be re-rated based on the total number of remaining ports.
- (I) Customers may enter a new fixed-term agreement that extends the term commitment beyond their existing fixed-term agreement at any time with no termination liability.
- (J) If the Company elects to substitute a customer's TLS-Lite service to a mutually agreed upon service provided by the Company, then the customer is not subject to the termination provisions as outlined in Section 7.11.3(G).

ACCESS SERVICE

7 Special Access Service (Cont.)7.10 Transparent LAN Service-Lite ("TLS-Lite") (Cont.)7.10.3 Rate Regulations (Cont.)

- (K) Termination liabilities set forth in 7.11.3(G) will be waived for local, state, or federal governments that sign a minimum one year term commitment with the option for four one-year renewals if termination is caused by a failure to achieve appropriation of funds during the renewal period.

7.10.4 Promotion

Beginning February 12, 2002 and ending September 12, 2002, customers who sign a one, three, or five year fixed term of service agreement for TLS-Lite, will receive a waiver of the Access Order Charge. The waiver will appear as a credit on the customer's billing.

To qualify, customers must request to sign up for the promotion.

If the customer terminates service pursuant to Section 7.11.3(G), the customer will pay all credits received under this promotion in addition to the charges assessed in Section 7.11.3(G). The Company will bill the customer an amount equal to the credits.

ACCESS SERVICE

7 Special Access Service (Cont.)7.11 Synchronous Optical Channel Service7.11.1 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 155.52 Mbps (OC3) and 622.08 Mbps (OC12). Synchronous Optical Channel Service is provided between two customer designated premises (CDP) through one or more Telephone Company wire centers. OC3 Synchronous Optical Channel Service may also be provided between a customer designated premises and a Telephone Company designated DSL Access Service Connection Point.

Additionally, a Synchronous Optical Channel Service channel may be provided between a customer designated premises and a service wire center equipped with Ethernet Transport Service (ETS) and/or between a Telephone Company service wire center equipped with ETS and another Telephone Company Ethernet-equipped serving wire center that is located in a non-adjacent serving territory.

Each channel will be configured with one working and one protect fiber pair within the same sheath between the CDP and the service wire center of the CDP which provides 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.

Rates and Charges for Synchronous Optical Channel Service are set forth in Section 17.3.11.

ACCESS SERVICE

7 Special Access Service (Cont.)7.11 Synchronous Optical Channel Service (Cont.)7.11.2 Network Channel Interfaces

Compatible channel interfaces for Synchronous Optical Channel Service are as set forth in Section 15.2.2 (C)(8), following.

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

<u>NCI</u>	<u>Bit Rate</u>
FCF-B	155.52 Mbps (OC3)
FCF-D	622.08 Mbps (OC12)

7.12 Individual Case Filings

Certain services set forth in Special Access Service, Section 7, will be provided on an Individual Case Basis.

ACCESS SERVICE

8 RESERVED FOR FUTURE USE

ACCESS SERVICE

9 RESERVED FOR FUTURE USE

ACCESS SERVICE

10 RESERVED FOR FUTURE USE

ACCESS SERVICE

11 Special Facilities Routing of Access Services11.1 Description

The services provided under this 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 Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more 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 Combined11.1.4 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.

ACCESS SERVICE

11 Special Facilities Routing of Access Services (Cont.)11.1 Description (Cont.)

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6 preceding; and Voice Grade Special Access Services as set forth 7.4 preceding and Special Federal Government Access Services as set forth in 10.5 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in Section 6 preceding; Voice Grade Special Access Services as set forth in 7.4 preceding and Special Federal Government Access Services as set forth in 10.5 preceding.

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

The rates and charges for Special Facilities Routing of Access Services are developed on an individual case basis. Such rates and charges for Special Facilities Routing of Access Services are as set forth in 17.4.6 following and are in addition to all other rates and charges that may be applicable for services provided under other sections of this service guide.

ACCESS SERVICE

12 Specialized Service or Arrangements12.1 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 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 ACS of Anchorage, LLC serving area.
- 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 17.4.6 following.

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services

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

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 17.4.2 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 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 17.4.1(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 and Miscellaneous Services13.2 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 17.4.3 following will apply before any additional labor is undertaken. 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 Stand-by

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

13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect 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 service guide.

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.3 Miscellaneous Services13.3.1 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 17.4.4 following. Other testing services, as described in 7.1.7 preceding, are provided by the Telephone Company in association with 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 tariff 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(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

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.3 Miscellaneous Services (Cont.)13.3.1 Testing Services (Cont.)(B) Special Access Service (Cont.)(1) Additional Cooperative Acceptance Testing (Cont.)

- Intermodulation Distortion
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

(2) Additional Manual Testing

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

(3) Obligation of the Customer

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

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.3 Miscellaneous Services (Cont.)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 17.4.4(F) 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.

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.3 Miscellaneous Services (Cont.)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).

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 services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

For Switched Access Service, the TSP System's applicability is limited to those services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.3 Miscellaneous Services (Cont.)13.3.3 Telecommunications Service Priority – TSP (Cont.)

- (B) A Telecommunications Service Priority (TSP) charge applies as set forth in 17.4.4(G) when a request to provide or change a TSP is received subsequent to the issuance of an Access Order to install the service.

Additionally, a Miscellaneous Service Order Charge as set forth in 17.4.1(D) will apply to TSP requests that are ordered subsequent to the initial installation of the associated access service.

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

In addition, Additional Labor rates as set forth in 17.4.3 may be applicable when provisioning or restoring Switched or Special Access Services with TSP.

When the customer requests an audit or a reconciliation of the Telephone Company's TSP records, a Miscellaneous Service Order Charge as set forth in 17.4.1 (D) and Additional Labor rates as set forth in 17.4.3 are applicable.

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.3 Miscellaneous Services (Cont.)13.3.4 Bill Name and Address Information

The term "telecommunications service providers," as used in this provision, includes interexchange carriers, operator services providers, enhanced service providers and other providers of interstate telecommunications services. Telecommunications service providers may request Billing Name and Address information (BNA) of the Telephone Company or the Telephone Company's billing agent for a specifically stated Billed Telephone Number (BTN).

BNA may be used only for billing purposes, order entry, customer service, fraud prevention and identification of customers who have moved from one location to another, per FCC Order 93-535, Docket 91-115. This information may not be used for marketing purposes and may not be disclosed to third parties other than governmental law enforcement agencies, per FCC Order 93-535, Docket No. 91-115.

The Telephone company will provide BNA to telecommunications service providers on a per-request basis, using rates specified in 17.4.4(H). BNA will be provided for all BTNs except where the subscriber's number is unpublished or unlisted and the subscriber has notified the Telephone Company that they do not want their BNA released for calling card calls and/or collect or third party calls.)

Requests for BNA must be submitted in writing. The request must be accompanied by: 1) Carrier identification code, 2) specific BTNs for which BNA is requested, and 3) Contact name and number for verification.

BNA will be provided in written form, on paper copy, or diskette, or on magnetic tape where available.

ACCESS SERVICE

13 Additional Engineering, Additional Labor and Miscellaneous Services (Cont.)13.4 Reserved for Future Use13.5 Reserved for Future Use13.6 Reserved for Future Use13.7 Reserved for Future Use13.8 Reserved for Future Use13.9 Reserved for Future Use

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications

14.1 Reserved for Future Use

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 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 14.2.2(A) following which contains information necessary to develop NCI codes.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service

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

Lastly, 14.2.2(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:

NC	NCI	SECNCI
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 preceding 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

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service

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:

NC	NCI	SECNCI
LG--	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
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:

NC	NCI	SECNCI
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-ISD-000307.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 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, etc.) are set forth in Section 7. preceding. Variations within service type (e.g., VG1, etc.) are described in the various Technical Publications cited 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 14.2.2 following and the guidelines concerning specific parameters available for each service type as set forth in the specified Technical Publication.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes(A) Technical Specifications Packages Voice Grade Service

<u>Parameter</u>	SD NC	Package VG-													
		<u>C*</u> <u>LQ</u>	<u>1</u> <u>LB</u>	<u>2</u> <u>LC</u>	<u>3</u> <u>LD</u>	<u>4</u> <u>LE</u>	<u>5</u> <u>LF</u>	<u>6</u> <u>LG</u>	<u>7</u> <u>LH</u>	<u>8</u> <u>LJ</u>	<u>9</u> <u>LK</u>	<u>10</u> <u>LN</u>	<u>11</u> <u>LP</u>	<u>12</u> <u>LR</u>	<u>W</u> <u>SE</u>
Attenuation		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Distortion															
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 Display		X						X	X	X	X	X	X	X	X
Distortion															
Frequency Shift		X						X	X	X	X	X	X	X	X
Impulse Noise		X					X	X	X	X	X	X	X	X	X
Intermodulation		X						X	X	X	X	X	X	X	X
Distortion															
Loss Deviation		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain		X													
Hits, and Dropouts															
Phase Jitter		X						X	X	X	X	X	X	X	X
Signal-to-C						X									
Message Noise															
Signal-to-C Notch		X					X	X	X	X	X	X	X	X	X
Noise															

The technical specifications for these parameters (except for phase hits, gain hits, and dropouts) are described in Technical References TR-NPL-000334 and TR-TSY-000335. The technical specifications for phase hits, gain hits, and dropouts 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

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(A) Technical Specifications Packages Voice Grade Service (Cont.)

<u>Optional Features and Functions</u>	SD NC	Package VG-													
		<u>C*</u> <u>LQ</u>	<u>1</u> <u>LB</u>	<u>2</u> <u>LC</u>	<u>3</u> <u>LD</u>	<u>4</u> <u>LE</u>	<u>5</u> <u>LF</u>	<u>6</u> <u>LG</u>	<u>7</u> <u>LH</u>	<u>8</u> <u>LJ</u>	<u>9</u> <u>LK</u>	<u>10</u> <u>LN</u>	<u>11</u> <u>LP</u>	<u>12</u> <u>LR</u>	<u>W</u> <u>SE</u>
Central Office Bridging Capability		X		X			X	X				X	X	X	X
Conditioning:															
- C-Type		X					X	X	X	X	X	X			
- Data Capability		X						X	X			X			
Improved Return Loss:															
- for Effective 4-wire Transmission		X	X	X	X	X	X	X	X	X	X	X	X	X	
- for Effective 2-wire Transmission		X		X	X				X						
Improved 2-Wire Voice Transmission														X	
Signaling Capability		X	X	X	X				X	X	X				

* The desired parameters are selected by the customer from the list of available parameters.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(B) Technical Specifications Packages Program Audio Service

<u>Parameter</u>	SD NC	<u>Package</u>				
		<u>APC*</u> <u>PQ</u>	<u>AP1</u> <u>PE</u>	<u>AP2</u> <u>PF</u>	<u>AP3</u> <u>PJ</u>	<u>AP4</u> <u>PK</u>
Actual Measured Loss		X	X	X	X	X
Amplitude Tracking			X			
Crosstalk		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 and Functions</u>						
Central Office Bridging Capability		X	X	X	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

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(C) Technical Specifications Packages Video Service(1) DS1 Video Teleconferencing - Duplex

This service provisions a full duplex (transmit and receive) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rate of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit and receive) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to multiple rate (nx64 Kbps) video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Standard repeated or repeaterless T1 facilities are used between central offices and customer premises to provide video signal transport. Metallic or fiber optic span line equipment can be used to transport the video signal between central offices.

Customer premise site B - same equipment as site A.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(C) Technical Specifications Packages Video Service (Cont.)(2) DS1 Video Teleconferencing - Simplex

This service provisions a simplex (transmit only) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rates of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same equipment as Duplex facilities above.

Customer premise site B - video and audio (receive only) signal to a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to DSU/CSU which terminates the line provided on local central office facilities.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(C) Technical Specifications Packages Video Service (Cont.)(3) DS1 Video Distribution - Simplex

This service provisions a simplex (transmit only) video distribution link (video jukebox, local hockey or basketball game etc.) over DS1/T1 facilities. The codec for this service operates at a line rate of T1 (1.544 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard NTSC video source is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same as Duplex facilities above.

Customer premise Site B - video and audio (receive only) signal to a standard NTSC video receiving unit is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Rates and charges for Special Access Video Service are set forth in 17.3.4 following.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(D) Technical Specifications Packages Digital Data Service

<u>Parameter</u>	SD NC	<u>Package</u>			
		<u>D1</u> <u>XA</u>	<u>D2</u> <u>XB</u>	<u>D3</u> <u>XG</u>	<u>D4</u> <u>XH</u>
Error-Free Seconds		X	X	X	X
<u>Optional Features and Functions</u>					
Central Office Bridging Capability		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-NPL-000341.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.1 Network Channel (NC) Codes (Cont.)(E) Technical Specifications Packages High Capacity Service

<u>Parameter</u>	SD NC	<u>Package</u>					
		<u>HC0</u> <u>HS</u>	<u>HC1</u> <u>HC</u>	<u>HC1C</u> <u>HD</u>	<u>HC2</u> <u>HE</u>	<u>HC3</u> <u>HF</u>	<u>HC4</u> <u>HG</u>
Error-Free Seconds			X				
<u>Optional Features and Functions</u>							
Automatic Loop Transfer Central Office Multiplexing:			X				
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 Substrate*		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.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 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 14.2 preceding.

(A) Parameter Codes and Options

<u>Parameter</u>		<u>Definition</u>
<u>Code</u>	<u>Option</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 -		Datastream in VF frequency band at customer's end user's point of termination
DB -		Datastream 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 combinations (McCulloh format)
	- 2	Telephone Company energized alarm channel
	- 3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(A) Parameter Codes and Options (Cont.)

<u>Parameter</u>		
<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD -		Dataphone Select-A-Station (and TABS) interface at customer's point of termination
DE -		Dataphone Select-A-Station (and TABS) interface at customer's end user's point of termination
DS -		Digital hierarchy interface
- 15		1.544 Mbps (DS1) format per PUB 62411 plus D4
- 15E		8-bit 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		271.176 Mbps (DS4)
- 27L		271.176 Mbps (DS4) with SF signaling
- 31		3.152 Mbps (DS1C)
- 31L		3.152 Mbps (DS1C) with SF signaling
- 44		44.736 Mbps (DS3)
- 44L		44.736 Mbps (DS3) with SF signaling
- 63		6.312 Mbps (DS2)
- 63L		6.312 Mbps (DS2) with SF signaling
DU -		Digital access interface
- 19		19.2 Kbps
- 24		2.4 Kbps
- 48		4.8 Kbps
- 56		56.0 Kbps
- 64		64.0 Kbps
- 96		9.6 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
DX -		Duplex signaling interface at customer's point of terminations
DY -		Duplex signaling interface at customer's end user's point of termination

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(A) Parameter Codes and Options (Cont.)

<u>Parameter</u>		
<u>Code</u>	<u>Option</u>	<u>Definition</u>
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EC -		Type III E&M signaling at customer's POT
EX -	A	Tandem channel unit signaling for loop start of ground start and customer supplies open end (dial tone, etc.) functions
EX -	B	Tandem channel unit signaling for loop start of ground start and customer supplies closed end (dial pulsing, etc.) functions
GO -		Group start loops 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 -		Loops start loop signaling – open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company-provided PLAR
LS -		Loop start loop signaling – closed end function by customer or customer's end user
NO -		No signaling interface, transmission only

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(A) Parameter Codes and Options (Cont.)

<u>Parameter</u>		<u>Definition</u>
<u>Code</u>	<u>Option</u>	
PG -		Program transmission – no dc signaling
-	1	Nominal frequency from 50 to 15,000 Hz
-	3	Nominal frequency from 200 to 3,500 Hz
-	5	Nominal frequency from 100 to 5,000 Hz
-	8	Nominal frequency from 50 to 8,000 Hz
PR -		Protective relaying*
RV -	O	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's POT
TF -		Telephotograph interface
TT -		Telegraph/teletypewriter interface at either customer POT or customer's end user's POT
-	2	20.0 milliamperes
-	3	3.0 milliamperes
-	6	62.5 milliamperes

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

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(B) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

- + For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)

- + 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.

(C) Compatible Network Channel Interfaces

The following tables show the Network Channel Interface codes (NCIs) which are compatible:

(1) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E	2LS3	2LS2	2LA2	
	4EA2-M				2LB2
	4SF2	2GO2	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2GO3	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2NO2	2DA2
	6EB2-E		2LS		2NO2
	6EB2-M		4GS		
	6EB3-E		4LS	2NO3	2NO2
	8EB2-E				2PR2
	8EB2-M	2L02	2LS2		

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
8EC2	2LS3	2TF3	2TF2
9DY2			
9DY3	2L03	2LS2	
9EA2		2LS3	
9EA3			
4AB2	2AC2		
	4AB2		
	4AC2		
	4SF2		
4AB3	2AC2		
	4AC2		
	4SF2		
4AC2	2AC2		
	4AC2		
	4DS8-	2AC2	4DS8-
		2DA2	4DG2
		2DY2	4LR2
		2GO2	4LS2
4DA2	4DA2	2GO3	4NO2
		2GS2	4PR2
4DB2	2DA2	2GS3	4RV2-T
	2NO2	2LA2	4SF2
	2PR2	2LB2	4SF3
	4DA2	2LC2	4TF2
	4DB2	2LO2	6DA2
	4NO2	2LO3	6DY2
	4PR2	2LR2	6DY3
	6DA2	2LS2	6EA2-E
			6EA2-M
			6EB2-E
4DD3	2DE2	2NO2	6EB2-M
	4DE2	2PR2	6GS2

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
			2RV2-T		6LS2
			2TF2		8EB2-E
			4AC2		8EB2-M
			4DA2		9DY2
			4DE2		9DY3
			4DX2		9EA2
			4DX3		9EA3
			4DY2		
			4EA2-E		
			4EA2-M		
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		6EA2-E
	2LC2		9DY3		6EA2-M
	2LO3		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	4DX2		2LA2		8EB2-M
	4DY2		2LB2		9DY2
	4EA2-E		2LC2		9DY3
	4EA2-M		2LO3		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2		2RV2-T	4DY2	2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		
4EA2-E	2DY2	4EA3-E	2DY2	4GO2	2GO2
	4DY2		4DY2		2GO3
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3
	4SF2		4SF2		4GS2
	6DY2		6DY2		4SF2
	6DY3		6DY3		6GS2
	6EB2-E		6EA2-E		
	6EB2-M		6EA2-M	4GO3	2GO2
	8EB2-E		6EB2-E		2GS2
	8EB2-M		6EB2-M		2GS3
	9DY2		8EB2-E		4GS2
	9DY3		8EB2-M		4SF2
			9DY2		6GS2
4EA2-M	2DY2		9DY3		
	4DY2		9EA2		
	4EA2-M		9EA3	4GS	2GS
	4SF2				2LS
	6DY2				4GS
	6DY3				4LS
	6EB2-E				
	6EB2-M				
	8EB2-E				
	8EB2-M				
	9DY2				
	9DY3				

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<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
4LO3	2LS2	4NO2	4SF2	4SF3	4AC2
	2LS3		2DA2		4DY2
	4LS2		2DE2		4LS2
	4SF2		2NO2		4RV2-T
	6LS2		4DA2		4SF2
4LR2	2LR2	4RV2-0	4DE2		6DY2
	4LR2		4NO2		6DY3
	4SF2		6DA2		6GS2
4LR3	2LR2		2RV2-T		9DY2
	4LR2		4RV2-T		9DY3
	4SF2		4SF2		2DY2
4LS	2GS	4SF2	2AC2		2GO3
	2LS		2DY2		2GS2
	4GS		2GS2		2GS3
	4LS		2GS3		2LA2
			2LA2		2LB2
4LS2	2LA2		2LB2		2LC2
	2LB2		2LC2		2LO3
	2LC2				2LR2
	2LO2				
	2LO3				

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

Compatible CIs		Compatible CIs		Compatible CIs	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T	6DX2	2DY2		6DY2
	4DY2		6DY3		
	4EA2-E		4DY2	6EA2-E	2AC2
	4EA2-M		4EA2-E		
	4GS2				
	4LR2		4EA2-M		
	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	2TF2	6DY2	2DY2	4SF3
				4DY2	6DY2
				6DY2	6DY3
				6EA2-E	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	6EA2-M
					2DY2
					4DY2
					4EA2-E
					4EA2-M
					4SF2
	9DY2	6LS2	6DY2		

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	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		
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

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6GO2	2GO2		4DY2		4DY2
	2GS2		4LS2		4LS2
	2GS3		4RV2-T		4RV2-T
	4GS2		4SF2		4SF2
	4SF2		4SF3		4SF3
	6GS2		6DY2		6DY2
6LO2			6DY3		6DY3
	2LS2		6EB2-E		6EB2-E
	2LS3		6EB2-M		6EB2-M
	4LS2		6LS2		6LS2
	4SF2		8EB2-E		8EB2-M
	6LS2		8EB2-M		9DY2
6LS2			9DY2		9DY3
	2LA2		9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
8EC2	4SF2				
	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

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(1) Voice Grade (Cont.)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
9EA2	4EA2-E	
9EA3	4EA2-M	
	6DY2	
	6DY3	
	6EA2-E	
	6EA2-M	
	6EB2-E	
	6EB2-M	
	8EB2-E	
	8EB2-M	
	9DY2	
	9DY3	
	9EA2	
	9EA3	

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(2) Program AudioCompatible CIs

2PG2-1 2PG1-1

2PG2-3 2PG1-3

2PG2-5 2PG1-5

2PG2-8 2PG1-8

Compatible CIs4DS8-15E 2PG1-3
2PG2-1 2PG2-34DS8-15F 2PG1-5
2PG2-3 2PG2-54DS8-15G 2PG1-8
2PG2-5 2PG2-84DA8-15H 2PG1-1
2PG2-8 2PG2-1(3) Digital DataCompatible CIs4DS8-15 4DS8-15+
4DU5-24
4DU5-48
4DU5-56
4DU5-96
6DU5-24
6DU5-48
6DU5-96Compatible CIs4DU5-24 4DU5-246DU5-246DU5-24
4DU5-48 4DU5-486DU5-486DU5-48
4DU5-96 4DU5-966DU5-566DU5-56
4DU8-56 4DU5-566DU5-966DU5-96Compatible CIs

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

ACCESS SERVICE

14 Access Service Interfaces and Transmission Specifications (Cont.)14.2 Special Access Service (Cont.)14.2.2 Network Channel Interface (NCI) Codes (Cont.)(C) Compatible Network Channel Interfaces (Cont.)(4) High Capacity

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

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

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont.)14.3 Directory Access Service14.3.1 Interface Group and Premise Interface Codes

When Directory Access Service is combined with Feature Group B or D Switched Access Service, the Premises Interface Code for the combination will be the available Premises Interface Code provided for the Feature Group B, or D Switched Access Service ordered by the customer. Premises Interface Codes are described in 14.1.1(F) preceding.

When Directory Access Service is provided as a separate trunk group (not in combination with Switched Access Service) Interface Groups 2 through 10 as set forth in 14.1.1 preceding are available. Only the following Premises Interface codes are available when Directory Access Service is provided as a separate trunk group:

4DS9-15	6EA2-E	4RV2-0
4DS9-31	6EA2-M	4AH5-B
4DS0-63	4SF3	4AH6-C
4DS6-44		4AH6-D
4DS6-27		

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont.)14.3 Directory Access Service (Cont.)14.3.2 Standard Transmission Specifications

Following is a matrix illustrating the transmission specifications available with Directory Access Service. Descriptions of the Standard Transmission Specifications, Type A and B, are set forth respectively in 14.1.2(E) and (F) preceding.

<u>Directory Access Service Provided in Combination with Switched Access Service</u>	<u>Transmission Specifications</u>	
	<u>Type A</u>	<u>Type B</u>
- Feature Group B (Interface Groups 2 through 10)		X
- Feature Group C		X
- Feature Group D	X	
 <u>Directory Access Service Not Combined with Switched Access Service</u>		
- Routed Direct to DA location (Interface Groups 2 through 10)		X
- Routed via an access tandem (Interface Groups 2 through 10)	X	

ACCESS SERVICE

15 Special Construction

When special construction of facilities is required, the provisions of this service guide apply in addition to all regulations, rates and charges as set forth in the appropriate service tariff.

15.1 Regulations15.1.1 Filing of Charges

Rates, charges and liabilities for special construction to provide facilities for use for one month or more are filed in 15.1.8, following, as appropriate.

Rates, charges and liabilities for the construction of facilities for use for less than one month are filed in supplements to this service guide.

15.1.2 Ownership of Facilities

The Telephone Company providing specially constructed facilities under the provisions of this service guide retains ownership of all such facilities.

15.1.3 Interval to Provide Facilities

Based on available information and the type of service ordered, the Telephone Company will establish a completion date for the specially constructed facilities. If the scheduled completion date cannot be met due to circumstances beyond the control of the Telephone Company, a new completion date will be established and the customer will be notified.

15.1.4 Special Construction Involving Both Interstate and Intrastate Facilities

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

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.5 Payments for Special Construction(A) Reserved for Future Use(B) Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued.

(C) Credit Allowance for Service Interruptions

In the event of a service interruption involving a specially constructed facility, the customer shall receive a recurring monthly charge credit in accordance with the credit allowance provisions in the appropriate service tariff associated with the affected services.

When an interruption continues due to the failure of the customer to authorize the replacement of facilities subject to a Replacement Charge, as specified in 15.1.8(A)(4) following, the credit allowance will be terminated on the seventh calendar day after the Telephone Company has provided the customer with written notification of the need for replacement. The credit allowance will resume on the day after the Telephone Company receives written authorization for the replacement from the customer.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.5 Payments for Special Construction (Cont.)(D) Payment of Charges

Payments for all special construction installation charges must be paid in accordance to one of the following two options:

- 1) Option 1: All installation charges are to be paid as one lump sum, once the customer has agreed to the special construction project, or
- 2) Option 2: All installation charges incurred will be multiplied by an interest rate of 10.5%. This amount of calculated annual interest will then be added to the total amount of installation charges incurred which will result in the total amount to be financed. This total amount will be divided into twelve equal monthly installments to be paid over a 12 month period, once the customer has agreed to the special construction project.

(E) Payment of Upfront Charges

Under Option 1, payment of estimated charges is due before construction.

(F) Estimation of Charges Expiration

The Telephone Company will prepare and present an estimation of charges for the Special Construction to the customer. The estimate will expire 90 days after the date of letter presenting said estimates.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.6 Liabilities and Charges for Special Construction(A) General

This section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction. The Telephone Company will determine if a request needs special construction facilities.

(B) Conditions Requiring Special Construction

Special construction is required when these three conditions are met: 1) facilities are not available within the next 12 months to meet an order for service, 2) one or more of the following conditions exists:

- a) The Telephone Company has no other planned use for the facilities requested.
- b) It is requested that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.
- c) More facilities are requested than would normally be required to satisfy an order.
- d) It is requested that construction be expedited, resulting in added cost to the Telephone Company.

And (3) the Telephone Company constructs facilities.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.7 Development of Liabilities and Charges

Special construction charges and liabilities will be developed based on estimated costs, except when actual costs are requested in writing prior to the start of special construction. Travel costs and time for engineering (including and without limitation staff or contractor time) to develop a site specific cost estimate in locations off the road system will be added to the non recurring charges.

In order to meet a scheduled service date when actual costs are requested, an initial special construction filing may be made based on estimated costs. Such a filing will be revised when actual costs are available.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.8 Types of Liabilities and Charges

Depending on the specifics associated with each individual case, one or more of the following special construction charges and/or liabilities may be applicable:

(A) Nonrecurring Charge

A nonrecurring charge always applies and includes one or more of the following components:

(1) Case Preparation Charge

A nonrecurring charge always includes a case preparation charge component to cover the administrative expenses associated with preparing a special construction case and the associated tariff filing.

(2) Expediting Charge

A nonrecurring charge may include an expediting charge when it is requested that special construction be completed on an expedited basis. The charge equals the difference in estimated cost between expedited and nonexpedited construction.

(3) Reserved for Future Use

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.8 Types of Liabilities and Charges (Cont.)(A) Nonrecurring Charge (Cont.)(4) Replacement Charge

If any portion of specially constructed facilities for which an optional payment charge has been paid requires replacement involving capital investment, a replacement charge will apply. This charge will be in the same ratio to the total replacement cost as the initial optional payment charge was to the installed cost of the original specially constructed facilities. If any portion of the facilities subject to the replacement charge fails, service will not be restored until notification is provided in writing that replacement is required and such replacement is ordered.

(5) Rearrangement Charge

If the Telephone Company is requested to rearrange existing specially constructed facilities, a nonrecurring charge equal to the cost of any additional special construction will apply.

(6) Special Construction of Facilities for Use for less than One Month

When the Telephone Company is requested to construct facilities to provide service for less than one month, a nonrecurring charge only applies. In addition to the case preparation charge component, this nonrecurring charge recovers all elements of cost, including engineering, shipping of equipment, equipment installation, line-up, equipment leasing, space rental, equipment removal, and any other costs associated with the construction of the facilities and the provisioning of the service.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.8 Types of Liabilities and Charges (Cont.)(A) Nonrecurring Charge (Cont.)(7) Special Construction Charges to Provide Permanent Facilities

When the Telephone Company is requested to provide permanent facilities, as specified in 15.1.6 (B), the Telephone Company will provide the requested services. Appropriate recurring and/or nonrecurring charges shall be developed and assessed on the customer, including, but not limited to, charges for engineering, installation, construction, facilities assembly, purchase or lease of equipment, facilities, and services, and/or special services not offered under this service guide. Such charges will be tariffed on a case by case basis and will be in addition to a normal monthly service charge.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.8 Types of Liabilities and Charges (Cont.)

- (B) Reserved for Future Use
- (C) Reserved for Future Use (Cont.)
- (D) Maximum Termination Liability and Termination Charge

If a customer chooses to pay the special construction cost over a 12 month period, a termination liability charge will apply if the customer disconnects service before the 12 month period ends. Maximum Termination Liability charge is equal to the non-recoverable costs associated with specially constructed facilities plus interest to the date of payment and is the maximum amount which could be applied as the Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The liability period is 12 months in terms of an effective and expiration date.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.8 Types of Liabilities and Charges (Cont.)(C) Annual Underutilization Liability and Underutilization Charge (Cont.)(1) Charge for Route or Type other than Normal

When special construction is requested using a route or type of facility other than that which the Telephone Company would normally use, a recurring monthly charge, in addition to the monthly rates for service, is applicable. The charge is equal to the difference between the recurring costs of the specially constructed facilities and the recurring costs of the facilities the Telephone Company would have normally used.

(a)

(b) If the actual cost option as set forth in 15.1.7 has been elected, the recurring charge will be adjusted to reflect the actual cost of the new construction when the costs have been determined. This adjusted recurring charge is applicable from the start of service.

(D) Lease Charge

This charge applies when the Telephone Company leases equipment or third party services in order to meet service requirements. The amount of the charge is equal to the net added cost to the Telephone Company caused by the lease.

ACCESS SERVICE

15 Special Construction (Cont.)15.1 Regulations (Cont.)15.1.8 Types of Liabilities and Charges (Cont.)(E) Cancellation Charge

If a service order with which special construction is associated is cancelled prior to the start of service, a cancellation charge will apply. The charge will include all nonrecoverable costs incurred by the Telephone Company in association with the special construction up to and including the time of cancellation.

15.1.9 Deferral of Start of Service15.1.9 Deferral of Start of Service (Cont.)

A deferral of the start of service of greater than 6 months will be treated as a cancellation.

For a one time deferral of the start of service for 6 months or less, a charge based on any additional costs incurred by the Telephone Company due to the deferral during each month of the deferral will apply. Such deferral charges will be tarified.

15.1.10 Reserved for Future Use15.1.11 Definitions

Actual Cost - The term "Actual Cost" denotes all costs charged against a specific case of special construction, including any appropriate taxes.

Annual Underutilization Liability - The term "Annual Underutilization Liability" denotes a per unit amount which may be billed annually if fewer services are in use utilizing specially constructed facilities at filed tariff rates than were originally specially constructed.

Estimated Cost - The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes.

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Facilities - The term "Facilities" denotes any cable, poles, conduit, microwave or carrier equipment, wire center distribution frames, central office switching equipment etc., utilized to provide interstate services.

Initial Liability Period - The term "Initial Liability Period" denotes the initial planning period during which the customer expects to place specially constructed facilities in service.

Installed Cost - The term "Installed Cost" denotes the total investment (estimated or actual) required by the Telephone Company to provide specially constructed facilities.

Maximum Termination Liability - The term "Maximum Termination Liability" denotes the maximum amount which may be billed if all services using specially constructed facilities are terminated prior to the expiration of the Maximum Termination Liability Period.

Maximum Termination Liability Period - The term "Maximum Termination Liability Period" denotes the length of time for which a termination charge may apply if all services using specially constructed facilities are terminated.

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

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

Normal Construction - The term "Normal Construction" denotes all facilities the Telephone Company would normally use to provide service in the absence of a requirement for special construction.

Permanent Facilities - The term "Permanent Facilities" denotes facilities providing service for one month or more.

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

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Termination Charge - The term "Termination Charge" denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period.

ACCESS SERVICE

16 Ethernet Transport Service16.1 General

Ethernet Transport Service (ETS) is a high speed data transport service that provides end-to-end transmission using Ethernet packet technology at transport speeds ranging from 5 Mbps to 1 Gbps, where available. ETS is ideal for transport of broadband multimedia traffic (i.e., voice, data, and video) using variable length Ethernet packets with the ability to interconnect multiple locations using the Telephone Company's ETS network. Ethernet packets generated by Ethernet-compatible customer premises equipment (CPE) are transmitted using available capacity on shared transmission paths through the Telephone Company's ETS network to a pre-specified destination. The ETS customer may use ETS to: (1) interconnect customer-designated premises (CDPs) served by the Telephone Company's ETS network, (2) interconnect with its local area network (LAN) to the Telephone Company's ETS network and/or (3) interconnect its CDPs to an Ethernet network located outside of the Telephone Company's serving territory.

16.2 Service Description

ETS is provided using a combination of ETS Channel Terminations and ETS Ports. As described below, ETS may be used in conjunction with Special Access High Capacity DS3 and Synchronous Optical Channel Service OC3 and OC12 Services as specified in Section 7, preceding, and with DSL Access Services as specified in Section 8, preceding. An ETS Port is required to provide the interface into the Telephone Company's ETS network.

The transmission quality of ETS is not guaranteed and is offered to ETS customers at a best-effort level. The Telephone Company will attempt to deliver all Ethernet packets received; however, network congestion may result in a loss of Ethernet packets. Transmission speeds using copper facilities may be affected by distance from the Telephone Company central office and other technical limitations in the Telephone Company's copper network and are also not guaranteed.

Service is provided, where available, between CDPs and designated Telephone Company Serving Wire Centers (SWCs). ETS will be furnished where suitable facilities exist as determined by the Telephone Company. The Telephone Company will identify its ETS-equipped SWCs in NATIONAL EXCHANGE CARRIERS ASSOCIATION, INC. Tariff F.C.C. No. 4.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.2 Service Description (Cont.)

Rates and charges for ETS are specified in Section 17.4.7, following. The application of rates and charges for ETS is described later in this section.

16.3 Obligations of the Customer

In addition to the regulations described in other sections of this service guide, the following provisions apply to ETS:

- (A) The ETS customer is responsible for providing the Telephone Company with the necessary information to provision ETS as specified in Section 5.2 Ordering Requirements, preceding.
- (B) The ETS customer is responsible for providing and maintaining all required CPE, which is compatible with ETS and complies with the standards specified in Technical Reference IEEE Standard 802.3-2005, Part 3, Sections 1 through 5.

16.4 Rate Regulations

This section contains the regulations governing the rates and charges that apply for ETS. Regulations governing the rates and charges for Special Access and DSL Access Services provided under this service guide used in conjunction with ETS are as specified in Sections 7 and 8, preceding.

(A) Rate Categories

The various ETS service elements are described below.

(1) ETS Channel Terminations (CTs)

An ETS CT provides the transport facility between the customer's designated premises and an ETS Basic Port at the Telephone Company's ETS SWC.

ETS CTs are available at bandwidth speeds of 10 Mbps, 20, Mbps, 50 Mbps, 100 Mbps, 500 Mbps, and 1 Gbps. The ETS customer orders the type of ETS CT it needs based on its bandwidth requirements.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(A) Rate Categories (Cont.)(1) ETS Channel Terminations (CTs) (Cont.)

Bandwidth speeds of 50 Mbps and above require use of a fiber loop facility, where such fiber facilities exist. ETS CTs are available only from suitably equipped ETS SWCs for connection to ETS Basic Ports.

Monthly and nonrecurring charges apply for each ETS CT ordered. The monthly rate is based upon the bandwidth capacity ordered and whether the CDP is located within 300 feet of the ETS SWC or more than 300 feet from the ETS SWC. Rates and charges are specified in 17.4.7, following.

(2) ETS Basic Ports

ETS Basic Ports provide the interface at the Telephone Company's ETS SWC for data traffic to and from the customer premises equipment as well as for connecting the Telephone Company's ETS network with the Ethernet network of another telephone company. An ETS Basic Port receives Ethernet packets from the ETS customer's Ethernet-compatible CPE, validates the addressing parameters contained in the packet headers, and transmits the packets into the ETS network. The ETS Basic Port also receives Ethernet packets from the Telephone Company's ETS network or from an Ethernet network located outside the Telephone Company's service territory, validates the addressing parameters contained in the packet headers, and transmits the packets to the pre-designated CDP.

ETS Basic Ports provide the interface to the Telephone Company's ETS network and do not include the required transport facility between the CDP and the Telephone Company's ETS SWC.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(A) Rate Categories (Cont.)(2) ETS Basic Ports (Cont.)

ETS Basic Ports are available in bandwidth speeds of 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 500 Mbps, and 1 Gbps. Required transport to the ETS Basic Port is provided using an ETS CT as described above. The bandwidth speed of an ETS Basic Port must be equal to or greater than the bandwidth speed of the associated ETS CT. The bandwidth speed of an optional DSL Access Service Connection function must be equal to the bandwidth speed of the associated ETS Basic Port.

Monthly and nonrecurring charges apply for each ETS Basic Port ordered. The monthly recurring charge is determined by the capacity ordered. Rates and charges are specified in Section 17.4.7, following.

(3) Optional Features and Functions(a) DSL Access Service Connection

Where available, ETS Basic Ports may be equipped with the DSL Access Service Connection function. The function provides for the interconnection of ETS with DSL Access Service as described in Section 8, preceding, provided by the Telephone Company under this service guide. The function also provides for the interconnection of ETS with a wireline broadband Internet transmission service provided on a non-tariffed, common carrier basis. This optional function allows the ETS customer to receive ADSL, SDSL, and/or wireline broadband Internet transmission service data traffic to its end user customers.

The speed of the DSL Access Service Connection function ordered by the ETS customer must equal the speed of the associated ETS Basic Port.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(A) Rate Categories (Cont.)(3) Optional Features and Functions (Cont.)(a) DSL Access Service Connection (Cont.)

A non-recurring charge applies per port to equip the ETS Basic Port with the DSL Access Service Connection function. Rates and charges are specified in Section 17.4.7, following.

(B) Types of Rates and Charges

There are two types of rates and charges: monthly rates, and nonrecurring charges. These rates and charges are described below.

(1) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof when an ETS service element is provided. For billing purposes, each month is considered to have 30 days.

(2) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for ETS are installation of service, service rearrangements, and moves.

Except as specified below, these charges are in addition to the Access Order Charge as specified in Section 17.4.1, following.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(B) Types of Rates and Charges (Cont.)(2) Nonrecurring Charges (Cont.)(a) Installation of Service

Nonrecurring charges apply for installation of ETS CTs, ETS Ports, and ETS Optional Features and Functions ordered by the ETS customer.

(b) Service Rearrangements

Service rearrangements are changes to existing (i.e., installed) services, which may be administrative only in nature as set forth below or, that involve an actual physical change to the service.

When the ETS customer elects to decrease the bandwidth capacity on existing ETS Ports, associated DSL Access Service Connection functions (where applicable), and associated ETS CTs, the request will be considered a discontinuance of service for the former capacity and start of service for the new capacity. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new ETS elements. The ETS customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued ETS elements.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(B) Types of Rates and Charges (Cont.)(2) Nonrecurring Charges (Cont.)(b) Service Rearrangements (Cont.)

When the ETS customer elects to increase the bandwidth capacity on existing ETS Ports, associated DSL Access Service Connection functions (where applicable), and associated ETS CTs, the request will be considered a discontinuance of service or the former capacity and start of service for the new capacity. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new ETS elements. Any outstanding minimum period charges associated with the discontinued ETS elements that would otherwise be applicable to the bandwidth capacity upgrades described in this paragraph will be waived.

Administrative changes will be made without charge(s) to the ETS 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, contact name, or contact telephone number),
- Change of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(B) Types of Rates and Charges (Cont.)(2) Nonrecurring Charges (Cont.)(c) Moves

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

- The Point of Termination at the customer's premises, or
- The customer's premises.

The charges for moving ETS elements are dependent on whether the move is to a different location within the same building, to a different building within the same SWC, or to a different building in a different SWC. The charges specified below apply in addition to any applicable charges for moving any applicable Special Access Services as specified in Section 7.2.3, preceding.

(i) Moves Within the Same Building

ETS Basic Ports are not impacted when an ETS customer moves its Point of Termination to a different location within the same building. The charge for moving an ETS CT within the same building will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the ETS CT. There will be no change in the minimum period requirements.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.4 Rate Regulations (Cont.)(B) Types of Rates and Charges (Cont.)(2) Nonrecurring Charges (Cont.)(c) Moves (Cont.)(ii) Moves to a Different Building Within the Same SWC

ETS Basic Ports are not impacted when an ETS customer moves its Point of Termination to a different building within the same SWC. The move of an ETS CT will be treated as a discontinuance and start of service. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new services. The ETS customer will also remain responsible for satisfying all outstanding minimum period charges for discontinued service.

(iii) Moves to a Different Building in a Different SWC

A move to a different building in a different SWC will be treated as a discontinuance and start of service of all associated ETS elements. Associated nonrecurring (i.e., installation) charges will apply. New minimum period requirements will be established for the new services. The ETS customer will also remain responsible for satisfying all outstanding minimum period charges for discontinued service.

ACCESS SERVICE

16 Ethernet Transport Service (Cont.)16.5 Rate Regulations (Cont.)(C) Minimum Periods

The minimum periods for ETS service elements provided to an ETS customer and for which charges are applicable are:

- Twelve (12) months for ETS Basic Ports, or
- One (1) month for all other ETS elements

ACCESS SERVICE

17 Rates and Charges

17.1. Federal Universal Service Charge

(A) Reserved for Future Use

(B) Reserved for Future Use

(C) Reserved for Future Use

ACCESS SERVICE

17 Rates and Charges (Cont.)17.1 Federal Universal Service Charge (Cont.)17.1.2 Federal Universal Service Charge (FUSC) **

** The FCC Contribution factor is subject to change quarterly. The current factor can be found at <http://www.fcc.gov/encyclopedia/contribution-factor-quarterly-filings-universalservice-fund-usf-management-support>

17.1.3 Reserved For Future Use

17.1.4 Reserved For Future Use

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service17.3.1 Surcharge for Special Access ServiceGuide Ref.

Per Voice Grade Equivalent		7.3
<u>ACS Company</u>	<u>Rate</u>	
ACS of Alaska – Greatland	\$	25.00
ACS of Alaska – Juneau	\$	25.00
ACS of Anchorage - Excludes Hope**	\$	25.00
ACS of Fairbanks	\$	25.00
ACS of the Northland – North Pole Only**	\$	25.00

17.3.2 Voice Grade Service(A) Channel Termination per Termination

7.4

- Two Wire

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 29.85	\$ 450.00
ACS of Alaska – Juneau	\$ 29.85	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 29.85	\$ 450.00
ACS of Fairbanks	\$ 29.85	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 29.85	\$ 450.00

- Two Wire, Metallic

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 17.77	\$ 450.00
ACS of Alaska – Juneau	\$ 17.77	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 17.77	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 17.77	\$ 450.00

- Four Wire

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 53.69	\$ 450.00
ACS of Alaska – Juneau	\$ 53.69	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 53.69	\$ 450.00
ACS of Fairbanks	\$ 53.69	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 53.69	\$ 450.00

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.2 Voice Grade Service (Cont.)Guide Ref.(B) Channel Mileage

7.4

- Facility, per Mile

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	1.22
ACS of Alaska – Juneau	\$	1.22
ACS of Anchorage	\$	1.22
ACS of Fairbanks	\$	1.22
ACS of the Northland – Glacier State	\$	1.22
ACS of the Northland – Sitka/Bush	\$	1.22

- Termination, per Termination

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	12.33
ACS of Alaska – Juneau	\$	12.33
ACS of Anchorage	\$	12.33
ACS of Fairbanks	\$	12.33
ACS of the Northland – Glacier State	\$	12.33
ACS of the Northland – Sitka/Bush	\$	12.33

(C) Optional Features and Functions

7.4.3

- Two Wire Bridging, per Port

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	3.81
ACS of Alaska – Juneau	\$	3.81
ACS of Anchorage - Excludes Hope*	\$	3.81
ACS of Fairbanks	\$	3.81
ACS of the Northland – North Pole Only**	\$	3.81

- Four Wire Bridging, per Port

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	6.45
ACS of Alaska – Juneau	\$	6.45
ACS of Anchorage - Excludes Hope*	\$	6.45
ACS of Fairbanks	\$	6.45
ACS of the Northland – North Pole Only**	\$	6.45

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.2 Voice Grade Service (Cont.)Guide Ref.(C) Optional Features and Functions (Cont.)

7.4.3

(2) Conditioning, per Termination

- C-Type

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	6.93
ACS of Alaska – Juneau	\$	6.93
ACS of Anchorage - Excludes Hope*	\$	6.93
ACS of Fairbanks	\$	6.93
ACS of the Northland – North Pole Only**	\$	6.93

- Data Capability

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	6.93
ACS of Alaska – Juneau	\$	6.93
ACS of Anchorage - Excludes Hope*	\$	6.93
ACS of Fairbanks	\$	6.93
ACS of the Northland – North Pole Only**	\$	6.93

(3) Improved Return Loss for Effective Transmission

- Two Wire

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	6.93
ACS of Alaska – Juneau	\$	6.93
ACS of Anchorage - Excludes Hope*	\$	6.93
ACS of Fairbanks	\$	6.93
ACS of the Northland – North Pole Only**	\$	6.93

- Four Wire

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	6.93
ACS of Alaska – Juneau	\$	6.93
ACS of Anchorage - Excludes Hope*	\$	6.93
ACS of Fairbanks	\$	6.93
ACS of the Northland – North Pole Only**	\$	6.93

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.2 Voice Grade Service (Cont.)Guide Ref.(C) Optional Features and Functions (Cont.) 7.4.3

(4) Signaling Capability

- Per Termination

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	23.35
ACS of Alaska – Juneau	\$	23.35
ACS of Anchorage - Excludes Hope*	\$	23.35
ACS of Fairbanks	\$	23.35
ACS of the Northland – North Pole Only**	\$	23.35

(5) Customer-Specified Receive Level

- Two Wire Termination

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	5.99
ACS of Alaska – Juneau	\$	5.99
ACS of Anchorage - Excludes Hope*	\$	n/a
ACS of Fairbanks	\$	5.99
ACS of the Northland – North Pole Only**	\$	5.99

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.3 Program Audio Service(A) Channel Termination, per Termination 7.5

- 200 to 3500 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 25.96	\$ 450.00
ACS of Alaska – Juneau	\$ 25.96	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 25.96	\$ 450.00
ACS of Fairbanks	\$ 25.96	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 25.96	\$ 450.00

- 100 to 5000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 37.80	\$ 450.00
ACS of Alaska – Juneau	\$ 37.80	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 37.80	\$ 450.00
ACS of Fairbanks	\$ 37.80	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 37.80	\$ 450.00

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.3 Program Audio Service (Cont.)Guide Ref.(A) Channel Termination, per Termination (Cont.) 7.5

- 50 to 8000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 37.80	\$ 450.00
ACS of Alaska – Juneau	\$ 37.80	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 37.80	\$ 450.00
ACS of Fairbanks	\$ 37.80	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 37.80	\$ 450.00

- 50 to 15000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 37.80	\$ 450.00
ACS of Alaska – Juneau	\$ 37.80	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 37.80	\$ 450.00
ACS of Fairbanks	\$ 37.80	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 37.80	\$ 450.00

(B) Channel Mileage Facility, per Mile

7.5

- 200 to 3500 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 1.22
ACS of Alaska – Juneau	\$ 1.22
ACS of Anchorage	\$ 1.22
ACS of Fairbanks	\$ 1.22
ACS of the Northland – Glacier State	\$ 1.22
ACS of the Northland – Sitka/Bush	\$ 1.22

- 100 to 5000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 2.45
ACS of Alaska – Juneau	\$ 2.45
ACS of Anchorage	\$ 2.45
ACS of Fairbanks	\$ 2.45
ACS of the Northland – Glacier State	\$ 2.45
ACS of the Northland – Sitka/Bush	\$ 2.45

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.3 Program Audio Service (Cont.)Guide Ref.(B) Channel Mileage Facility, per Mile (Cont.) 7.5

- 50 to 8000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 3.56
ACS of Alaska – Juneau	\$ 3.56
ACS of Anchorage	\$ 3.56
ACS of Fairbanks	\$ 3.56
ACS of the Northland – Glacier State	\$ 3.56
ACS of the Northland – Sitka/Bush	\$ 3.56

- 50 to 15000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 4.89
ACS of Alaska – Juneau	\$ 4.89
ACS of Anchorage	\$ 4.89
ACS of Fairbanks	\$ 4.89
ACS of the Northland – Glacier State	\$ 4.89
ACS of the Northland – Sitka/Bush	\$ 4.89

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.3 Program Audio Service (Cont.)Guide Ref.(C) Channel Mileage Termination, per Termination 7.5

- 200 to 3500 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 12.33
ACS of Alaska – Juneau	\$ 12.22
ACS of Anchorage	\$ 12.33
ACS of Fairbanks	\$ 12.33
ACS of the Northland – Glacier State	\$ 12.33
ACS of the Northland – Sitka/Bush	\$ 12.33

- 100 to 5000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 24.68
ACS of Alaska – Juneau	\$ 24.68
ACS of Anchorage	\$ 24.68
ACS of Fairbanks	\$ 24.68
ACS of the Northland – Glacier State	\$ 24.68
ACS of the Northland – Sitka/Bush	\$ 24.68

- 50 to 8000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 36.06
ACS of Alaska – Juneau	\$ 36.06
ACS of Anchorage	\$ 36.06
ACS of Fairbanks	\$ 36.06
ACS of the Northland – Glacier State	\$ 36.06
ACS of the Northland – Sitka/Bush	\$ 36.06

- 50 to 15000 Hz

<u>ACS Company</u>	<u>Monthly Rate</u>
ACS of Alaska – Greatland	\$ 49.39
ACS of Alaska – Juneau	\$ 49.39
ACS of Anchorage	\$ 49.39
ACS of Fairbanks	\$ 49.39
ACS of the Northland – Glacier State	\$ 49.39
ACS of the Northland – Sitka/Bush	\$ 49.39

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.4 Video ServiceGuide Ref.(A) Channel Termination, per Termination

7.6

- Video – Simplex or Duplexed

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 143.98	\$ 450.00
ACS of Alaska – Juneau	\$ 143.98	\$ 450.00
ACS of Anchorage - Excludes Hope*	\$ 143.98	\$ 450.00
ACS of Fairbanks	\$ 143.98	\$ 450.00
ACS of the Northland – North Pole Only**	\$ 143.98	\$ 450.00
	\$	\$

(B) Channel Mileage

7.6

- Facility, per Mile Video

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 24.88
ACS of Alaska – Juneau	\$ 24.88
ACS of Anchorage	\$ 24.88
ACS of Fairbanks	\$ 24.88
ACS of the Northland – Glacier State	\$ 24.88
ACS of the Northland – Sitka/Bush	\$ 24.88

- Termination, per Termination Video

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 103.31
ACS of Alaska – Juneau	\$ 103.31
ACS of Anchorage	\$ 103.31
ACS of Fairbanks	\$ 103.31
ACS of the Northland – Glacier State	\$ 103.31
ACS of the Northland – Sitka/Bush	\$ 103.31

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.5 Digital Data ServiceGuide Ref.(A) Channel Termination, per Termination

7.7

- 2.4 Kbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 67.68	\$ 390.00
ACS of Alaska – Juneau	\$ 67.68	\$ 390.00
ACS of Anchorage - Excludes Hope*	\$ 67.68	\$ 390.00
ACS of Fairbanks	\$ 67.68	\$ 390.00
ACS of the Northland – North Pole Only**	\$ 67.68	\$ 390.00

- 4.8 Kbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 67.68	\$ 390.00
ACS of Alaska – Juneau	\$ 67.68	\$ 390.00
ACS of Anchorage - Excludes Hope*	\$ 67.68	\$ 390.00
ACS of Fairbanks	\$ 67.68	\$ 390.00
ACS of the Northland – North Pole Only**	\$ 67.68	\$ 390.00

- 9.6 Kbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 67.68	\$ 390.00
ACS of Alaska – Juneau	\$ 67.68	\$ 390.00
ACS of Anchorage - Excludes Hope*	\$ 67.68	\$ 390.00
ACS of Fairbanks	\$ 67.68	\$ 390.00
ACS of the Northland – North Pole Only**	\$ 67.68	\$ 390.00

- 19.2 Kbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 67.68	\$ 390.00
ACS of Alaska – Juneau	\$ 67.68	\$ 390.00
ACS of Anchorage - Excludes Hope*	\$ 67.68	\$ 390.00
ACS of Fairbanks	\$ 67.68	\$ 390.00
ACS of the Northland – North Pole Only**	\$ 67.68	\$ 390.00

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.5 Digital Data ServiceGuide Ref.(A) Channel Termination, per Termination
(Cont.)

7.7

- 56.0 Kbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 67.68	\$ 390.00
ACS of Alaska – Juneau	\$ 67.68	\$ 390.00
ACS of Anchorage - Excludes Hope*	\$ 67.68	\$ 390.00
ACS of Fairbanks	\$ 67.68	\$ 390.00
ACS of the Northland – North Pole Only**	\$ 67.68	\$ 390.00

- 64.0 Kbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 67.68	\$ 390.00
ACS of Alaska – Juneau	\$ 67.68	\$ 390.00
ACS of Anchorage - Excludes Hope*	\$ 67.68	\$ 390.00
ACS of Fairbanks	\$ 67.68	\$ 390.00
ACS of the Northland – North Pole Only**	\$ 67.68	\$ 390.00

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.5 Digital Data Service (Cont.)Guide Ref.

(B) Channel Mileage (Cont.)

7.7

(1) Facility per Mile

- 2.4 Kbps

ACS CompanyRate

ACS of Alaska – Greatland \$ 1.22

ACS of Alaska – Juneau \$ 1.22

ACS of Anchorage \$ 1.22

ACS of Fairbanks \$ 1.22

ACS of the Northland – Glacier State \$ 1.22

ACS of the Northland – Sitka/Bush \$ 1.22

- 4.8 Kbps

ACS CompanyRate

ACS of Alaska – Greatland \$ 1.22

ACS of Alaska – Juneau \$ 1.22

ACS of Anchorage \$ 1.22

ACS of Fairbanks \$ 1.22

ACS of the Northland – Glacier State \$ 1.22

ACS of the Northland – Sitka/Bush \$ 1.22

- 9.6 Kbps

ACS CompanyRate

ACS of Alaska – Greatland \$ 1.22

ACS of Alaska – Juneau \$ 1.22

ACS of Anchorage \$ 1.22

ACS of Fairbanks \$ 1.22

ACS of the Northland – Glacier State \$ 1.22

ACS of the Northland – Sitka/Bush \$ 1.22

- 19.2 Kbps

ACS CompanyRate

ACS of Alaska – Greatland \$ 1.22

ACS of Alaska – Juneau \$ 1.22

ACS of Anchorage \$ 1.22

ACS of Fairbanks \$ 1.22

ACS of the Northland – Glacier State \$ 1.22

ACS of the Northland – Sitka/Bush \$ 1.22

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.5 Digital Data Service (Cont.)Guide Ref.

(B) Channel Mileage (Cont.)

7.7

(1) Facility per Mile (Cont.)

- 56.0 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	2.45
ACS of Alaska – Juneau	\$	2.45
ACS of Anchorage	\$	2.45
ACS of Fairbanks	\$	2.45
ACS of the Northland – Glacier State	\$	2.45
ACS of the Northland – Sitka/Bush	\$	2.45

- 64.0 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	2.45
ACS of Alaska – Juneau	\$	2.45
ACS of Anchorage	\$	2.45
ACS of Fairbanks	\$	2.45
ACS of the Northland – Glacier State	\$	2.45
ACS of the Northland – Sitka/Bush	\$	2.45

(2) Termination, per Termination

- 2.4 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	12.33
ACS of Alaska – Juneau	\$	12.33
ACS of Anchorage	\$	12.33
ACS of Fairbanks	\$	12.33
ACS of the Northland – Glacier State	\$	12.33
ACS of the Northland – Sitka/Bush	\$	12.33

- 4.8 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	12.33
ACS of Alaska – Juneau	\$	12.33
ACS of Anchorage	\$	12.33
ACS of Fairbanks	\$	12.33
ACS of the Northland – Glacier State	\$	12.33
ACS of the Northland – Sitka/Bush	\$	12.33

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.5 Digital Data Service (Cont.)Guide Ref.

(B) Channel Mileage (Cont.)

7.7

(2) Termination, per Termination (Cont.)

- 9.6 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	12.33
ACS of Alaska – Juneau	\$	12.33
ACS of Anchorage	\$	12.33
ACS of Fairbanks	\$	12.33
ACS of the Northland – Glacier State	\$	12.33
ACS of the Northland – Sitka/Bush	\$	12.33

- 19.2 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	12.33
ACS of Alaska – Juneau	\$	12.33
ACS of Anchorage	\$	12.33
ACS of Fairbanks	\$	12.33
ACS of the Northland – Glacier State	\$	12.33
ACS of the Northland – Sitka/Bush	\$	12.33

- 56.0 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	24.68
ACS of Alaska – Juneau	\$	24.68
ACS of Anchorage	\$	24.68
ACS of Fairbanks	\$	24.68
ACS of the Northland – Glacier State	\$	24.68
ACS of the Northland – Sitka/Bush	\$	24.68

- 64.0 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	24.68
ACS of Alaska – Juneau	\$	24.68
ACS of Anchorage	\$	24.68
ACS of Fairbanks	\$	24.68
ACS of the Northland – Glacier State	\$	24.68
ACS of the Northland – Sitka/Bush	\$	24.68

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.5 Digital Data Service (Cont.)Guide Ref.

(C) Optional Features and Functions

(1) Bridging per Port

7.7.3

ACS CompanyRate

ACS of Alaska – Greatland \$ 7.03

ACS of Alaska – Juneau \$ 7.03

ACS of Anchorage - Excludes Hope* \$ 7.03

ACS of Fairbanks \$ 7.03

ACS of the Northland – North Pole Only** \$ 7.03

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity ServiceGuide Ref.

(A) Channel Termination, per Termination 7.8

- DS1 (1.544 Mbps)

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 287.96	\$ 330.00
ACS of Alaska – Juneau	\$ 287.96	\$ 330.00
ACS of Anchorage - Excludes Hope*	\$ 287.96	\$ 330.00
ACS of Fairbanks	\$ 287.96	\$ 330.00
ACS of the Northland – North Pole Only**	\$ 287.96	\$ 330.00

- Facility of Three DS3 (44.736 Mbps)

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ n/a	\$ n/a
ACS of Alaska – Juneau	\$ n/a	\$ n/a
ACS of Anchorage - Excludes Hope*	\$ 2,535.70	\$ n/a
ACS of Fairbanks	\$ n/a	\$ n/a
ACS of the Northland – North Pole Only**	\$ n/a	\$ n/a

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(A) Channel Termination, per Termination (Cont.)

- Channel Interface Connection per DS3
Channel Installed

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 4,242.48	\$ 445.00
ACS of Alaska – Juneau	\$ 4,242.48	\$ 445.00
ACS of Anchorage - Excludes Hope*	\$ 4,242.48	\$ 445.00
ACS of Fairbanks	\$ 4,242.48	\$ 445.00
ACS of the Northland – North Pole Only**	\$ 4,242.48	\$ 445.00

- Facility of Six DS3s (44.736 Mbps)

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ n/a	\$ n/a
ACS of Alaska – Juneau	\$ n/a	\$ n/a
ACS of Anchorage	\$ ICB	\$ ICB
ACS of Fairbanks	\$ n/a	\$ n/a
ACS of the Northland – Glacier State	\$ n/a	\$ n/a
ACS of the Northland – Sitka/Bush	\$ n/a	\$ n/a

- Channel Interface Connection per DS3
Channel Installed

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ n/a	\$ n/a
ACS of Alaska – Juneau	\$ n/a	\$ n/a
ACS of Anchorage	\$ ICB	\$ ICB
ACS of Fairbanks	\$ n/a	\$ n/a
ACS of the Northland – Glacier State	\$ n/a	\$ n/a
ACS of the Northland – Sitka/Bush	\$ n/a	\$ n/a

- Facility of Twelve DS3s (44.736 Mbps)

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ n/a	\$ n/a
ACS of Alaska – Juneau	\$ n/a	\$ n/a
ACS of Anchorage	\$ ICB	\$ ICB
ACS of Fairbanks	\$ n/a	\$ n/a
ACS of the Northland – Glacier State	\$ n/a	\$ n/a
ACS of the Northland – Sitka/Bush	\$ n/a	\$ n/a

*Not Available in Hope

**Available in North Pole Only

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.(A) Channel Termination, per Termination
(Cont.) 7.8- Channel Interface Connection per DS3
Channel Installed

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ n/a	\$ n/a
ACS of Alaska – Juneau	\$ n/a	\$ n/a
ACS of Anchorage	\$ ICB	\$ ICB
ACS of Fairbanks	\$ n/a	\$ n/a
ACS of the Northland – Glacier State	\$ n/a	\$ n/a
ACS of the Northland – Sitka/Bush	\$ n/a	\$ n/a

- DS4 (274.176 Mbps)

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ n/a	\$ n/a
ACS of Alaska – Juneau	\$ n/a	\$ n/a
ACS of Anchorage	\$ ICB	\$ ICB
ACS of Fairbanks	\$ n/a	\$ n/a
ACS of the Northland – Glacier State	\$ n/a	\$ n/a
ACS of the Northland – Sitka/Bush	\$ n/a	\$ n/a

(B) Channel Mileage

(1) Facility, per Mile

- 1.544 Mbps

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 10.11
ACS of Alaska – Juneau	\$ 10.11
ACS of Anchorage	\$ 10.11
ACS of Fairbanks	\$ 10.11
ACS of the Northland – Glacier State	\$ 10.11
ACS of the Northland – Sitka/Bush	\$ 10.11

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(B) Channel Mileage (Cont.)

7.8

(1) Facility, per Mile (Cont.)

- 3.152 Mbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- 6.312 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- 44.736 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	231.75
ACS of Alaska – Juneau	\$	231.75
ACS of Anchorage	\$	231.75
ACS of Fairbanks	\$	231.75
ACS of the Northland – Glacier State	\$	231.75
ACS of the Northland – Sitka/Bush	\$	231.75

- 274.176 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(B) Channel Mileage (Cont.)

7.8

(2) Termination, per Termination

- 1.544 Mbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	19.66
ACS of Alaska – Juneau	\$	19.66
ACS of Anchorage	\$	19.66
ACS of Fairbanks	\$	19.66
ACS of the Northland – Glacier State	\$	19.66
ACS of the Northland – Sitka/Bush	\$	19.66

- 3.152 Mbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- 6.312 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- 44.736 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	451.13
ACS of Alaska – Juneau	\$	451.13
ACS of Anchorage	\$	451.13
ACS of Fairbanks	\$	451.13
ACS of the Northland – Glacier State	\$	451.13
ACS of the Northland – Sitka/Bush	\$	451.13

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(B) Channel Mileage (Cont.)

7.8

(2) Termination, per Termination (Cont.)

- 274.176 Kbps

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

(C) Optional Features and Functions

(1) Multiplexing, per Arrangement

- DS4 to DS1

ACS CompanyRate

ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- DS3 to DS1

ACS CompanyRate

ACS of Alaska – Greatland	\$	421.23
ACS of Alaska – Juneau	\$	421.23
ACS of Anchorage	\$	421.23
ACS of Fairbanks	\$	421.23
ACS of the Northland – Glacier State	\$	421.23
ACS of the Northland – Sitka/Bush	\$	421.23

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(C) Optional Features and Functions (Cont.)

(1) Multiplexing, per Arrangement (Cont.)

- DS2 to DS1

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- DS1C to DS1

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage	\$	ICB
ACS of Fairbanks	\$	n/a
ACS of the Northland – Glacier State	\$	n/a
ACS of the Northland – Sitka/Bush	\$	n/a

- DS1 to Voice¹

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	407.65
ACS of Alaska – Juneau	\$	407.65
ACS of Anchorage	\$	407.65
ACS of Fairbanks	\$	407.65
ACS of the Northland – Glacier State	\$	407.65
ACS of the Northland – Sitka/Bush	\$	407.65

- DS1 to DS0

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	413.13
ACS of Alaska – Juneau	\$	413.13
ACS of Anchorage	\$	413.13
ACS of Fairbanks	\$	413.13
ACS of the Northland – Glacier State	\$	413.13
ACS of the Northland – Sitka/Bush	\$	413.13

¹ A channel of this DS1 to the Hub can be used for Digital Data Service

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(C) Optional Features and Functions (Cont.)

(1) Multiplexing, per Arrangement (Cont.)

- DS0 to Subrates: Up to 20 2.4 Kbps

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 189.63
ACS of Alaska – Juneau	\$ 132.20
ACS of Anchorage	\$ 404.48
ACS of Fairbanks	\$ 176.03
ACS of the Northland – Glacier State	\$ 151.79
ACS of the Northland – Sitka/Bush	\$ 199.01

- DS0 to Subrates: Up to 10 4.8 Kbps

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 128.84
ACS of Alaska – Juneau	\$ 89.83
ACS of Anchorage	\$ 220.87
ACS of Fairbanks	\$ 119.61
ACS of the Northland – Glacier State	\$ 103.14
ACS of the Northland – Sitka/Bush	\$ 135.23

- DS0 to Subrates: Up to 5 9.6 Kbps

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 114.26
ACS of Alaska – Juneau	\$ 79.66
ACS of Anchorage	\$ 129.08
ACS of Fairbanks	\$ 106.07
ACS of the Northland – Glacier State	\$ 91.46
ACS of the Northland – Sitka/Bush	\$ 119.92

(2) Automatic Loop Transfer, per Arrangement***

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 76.82
ACS of Alaska – Juneau	\$ 53.56
ACS of Anchorage - Excludes Hope*	\$ 21.85
ACS of Fairbanks	\$ 71.31
ACS of the Northland – North Pole Only**	\$ 61.49

*Not Available in Hope

**Available in North Pole Only

*** An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer designated premises.

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.6 High Capacity Service (Cont.)Guide Ref.

(D) Clear Channel Capability, per 1.544 Mbps
Transmission Path

<u>ACS Company</u>		<u>Rate</u>
ACS of Alaska – Greatland	\$	n/a
ACS of Alaska – Juneau	\$	n/a
ACS of Anchorage - Excludes Hope	\$	None
ACS of Fairbanks	\$	n/a
ACS of the Northland – North Pole Only	\$	n/a
	\$	

(E) DSL Access Service Connection,
per 44.736 or 100 Mbps Ethernet Port

<u>ACS Company</u>	<u>Monthly Rate</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$ 100.10	\$	ICB
ACS of Alaska – Juneau	\$ 69.79	\$	ICB
ACS of Anchorage	\$ 740.39	\$	Note*
ACS of Fairbanks	\$ 92.93	\$	ICB
ACS of the Northland – Glacier State	\$ 80.13	\$	ICB
ACS of the Northland – Sitka/Bush	\$ 105.06	\$	ICB

Note*Additional Nonrecurring Engineering and Installation Labor charges apply, as set forth in Section 16.4.2 and 16.4.3, to install and test the DSL Access Service Connection to a customer's DS3 Channel Termination or collocated equipment.

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.7 Synchronous Optical Channel Service Guide Ref.

(A) Channel Termination, per Termination 7.11

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 1,030.99
ACS of Alaska – Juneau	\$ 718.78
ACS of Anchorage	\$ n/a
ACS of Fairbanks	\$ 957.10
ACS of the Northland – Glacier State	\$ 825.27
ACS of the Northland – Sitka/Bush	\$ 1,082.03

(B) Channel Mileage Facility, per Mile 7.11

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 70.74
ACS of Alaska – Juneau	\$ 49.32
ACS of Anchorage	\$ n/a
ACS of Fairbanks	\$ 65.67
ACS of the Northland – Glacier State	\$ 56.63
ACS of the Northland – Sitka/Bush	\$ 74.25

(C) Channel Mileage Termination, per Termination 7.11

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 263.18
ACS of Alaska – Juneau	\$ 183.48
ACS of Anchorage	\$ n/a
ACS of Fairbanks	\$ 244.32
ACS of the Northland – Glacier State	\$ 210.67
ACS of the Northland – Sitka/Bush	\$ 276.21

(D) Nonrecurring Charge applicable to (A) through (C), above.

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska – Greatland	\$ 218.79
ACS of Alaska – Juneau	\$ 152.54
ACS of Anchorage	\$ n/a
ACS of Fairbanks	\$ 161.38
ACS of the Northland – Glacier State	\$ 139.16
ACS of the Northland – Sitka/Bush	\$ 182.45

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.8 Transparent LAN Service High-Speed (TLS)²Nonrecurring Charges

Port Connection, per Port \$750.00

Contract Term, Month-to-Month Rate+10%

Monthly Recurring Charges

Contract Term: 1 Year, per Port

Total Number of Ports	10 Mbps	100 Mbps	1 Gbps
1	\$500.00	\$1,900.00	\$8,800.00
2	\$500.00	\$1,900.00	\$8,800.00
3	\$500.00	\$1,900.00	\$8,800.00
4	\$500.00	\$1,900.00	\$8,800.00
5	\$500.00	\$1,900.00	\$8,800.00
6	\$475.00	\$1,650.00	\$8,800.00
7	\$475.00	\$1,650.00	\$8,250.00
8	\$450.00	\$1,400.00	\$8,250.00
9	\$450.00	\$1,400.00	\$8,250.00
10	\$450.00	\$1,200.00	\$8,250.00
11	\$425.00	\$1,200.00	\$8,250.00
12	\$425.00	\$1,100.00	\$7,700.00
13	\$425.00	\$1,100.00	\$7,700.00
14	\$400.00	\$ 950.00	\$7,700.00

² TLS is only available in ACS of Anchorage

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)

17.3.8 Transparent LAN Service High-Speed (TLS) (Cont.)

Monthly Recurring Charges (Cont.)

Contract Term: 3 Year, per Port

Total Number of Ports	10 Mbps	100 Mbps	1 Gbps
1	450.00	1,725.00	7,700.00
2	450.00	1,725.00	7,700.00
3	450.00	1,725.00	7,700.00
4	450.00	1,725.00	7,700.00
5	450.00	1,725.00	7,700.00
6	425.00	1,450.00	7,700.00
7	425.00	1,450.00	7,150.00
8	400.00	1,225.00	7,150.00
9	400.00	1,225.00	7,150.00
10	400.00	1,000.00	7,150.00
11	375.00	1,000.00	7,150.00
12	375.00	900.00	6,600.00
13	375.00	900.00	6,600.00
14	350.00	800.00	6,600.00

Contract Term: 5 Year, per Port

Total Number of Ports	10 Mbps	100 Mbps	1 Gbps
1	400.00	1,400.00	6,000.00
2	400.00	1,400.00	6,000.00
3	400.00	1,400.00	6,000.00
4	400.00	1,200.00	6,000.00
5	400.00	1,200.00	6,000.00
6	375.00	1,050.00	6,000.00
7	375.00	1,050.00	5,500.00
8	350.00	900.00	5,500.00
9	350.00	900.00	5,500.00
10	350.00	800.00	5,500.00
11	325.00	800.00	5,500.00
12	325.00	750.00	5,000.00
13	325.00	750.00	5,000.00
14	300.00	700.00	5,000.00

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.8 Transparent LAN Service High-Speed (TLS) (Cont.)Local, State, or Federal Governments

The following rates are available to local, state, or federal governments that sign a minimum one year term of service commitment with an option for four one-year renewals, subject to appropriation of funds. Customers must subscribe to a minimum of 16 TLS ports and 16 Transparent LAN Service-Lite ports to qualify for these rates.

Contract Term: 1 Year with Options for four 1-year renewals

Total Number of Ports	10 Mbps	100 Mbps	1 Gbps
16+	\$357.00	\$825.00	\$5,000.00

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.9 Transparent LAN Service-Lite (TLS-Lite)Nonrecurring Charges

Port Connection, per Port \$300.00

Line Loop Extender, per Unit

The Line Loop Extender NRC shall not apply for any customer transferring from an existing ACS service where no installation expense is incurred.

-	1 Year Term	\$550.00
-	3 Year Term	\$350.00
-	5 Year Term	\$250.00

Contract Term: Month-to-Month 1 Year Rate+10%

Monthly Recurring Charges

Contract Term: 1, 3 or 5 Years, per Port, 768 Kbps

Total Number of Ports	1 Year	3 Years	5 Years
1	245.00	220.50	196.00
2	245.00	220.50	196.00
3	245.00	220.50	196.00
4	220.00	198.00	176.00
5	220.00	198.00	176.00
6	190.00	171.00	152.00
7	190.00	171.00	152.00
8	190.00	171.00	152.00
9	170.00	153.00	136.00
10	170.00	153.00	136.00
11	170.00	153.00	136.00
12	150.00	135.00	120.00
13	150.00	135.00	120.00
14+	150.00	135.00	120.00

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.9 Transparent LAN Service-Lite (TLS-Lite) (Cont.)

Contract Term: 1 Year, per Port, 1 Mbps to 9 Mbps

Total Number of Ports	1 Mbps	2 Mbps	3 Mbps	4 Mbps	5 Mbps
1	\$255.00	\$270.00	\$320.00	\$340.00	\$360.00
2	\$255.00	\$270.00	\$320.00	\$340.00	\$360.00
3	\$255.00	\$270.00	\$320.00	\$340.00	\$360.00
4	\$230.00	\$245.00	\$310.00	\$330.00	\$355.00
5	\$230.00	\$245.00	\$310.00	\$330.00	\$355.00
6	\$200.00	\$215.00	\$285.00	\$305.00	\$330.00
7	\$200.00	\$215.00	\$285.00	\$305.00	\$330.00
8	\$200.00	\$215.00	\$285.00	\$305.00	\$330.00
9	\$180.00	\$195.00	\$265.00	\$285.00	\$310.00
10	\$180.00	\$195.00	\$265.00	\$285.00	\$310.00
11	\$180.00	\$195.00	\$265.00	\$285.00	\$310.00
12	\$160.00	\$175.00	\$245.00	\$265.00	\$290.00
13	\$160.00	\$175.00	\$245.00	\$265.00	\$290.00
14+	\$160.00	\$175.00	\$245.00	\$265.00	\$290.00

Total Number of Ports	6 Mbps	7 Mbps	8 Mbps	9 Mbps
1	\$380.00	\$400.00	\$440.00	\$445.00
2	\$380.00	\$400.00	\$440.00	\$445.00
3	\$380.00	\$400.00	\$440.00	\$445.00
4	\$375.00	\$400.00	\$440.00	\$445.00
5	\$375.00	\$400.00	\$440.00	\$445.00
6	\$355.00	\$380.00	\$415.00	\$420.00
7	\$355.00	\$380.00	\$415.00	\$420.00
8	\$355.00	\$380.00	\$390.00	\$395.00
9	\$335.00	\$360.00	\$390.00	\$395.00
10	\$335.00	\$360.00	\$390.00	\$395.00
11	\$335.00	\$355.00	\$365.00	\$370.00
12	\$315.00	\$340.00	\$365.00	\$370.00
13	\$315.00	\$340.00	\$365.00	\$370.00
14+	\$315.00	\$330.00	\$340.00	\$355.00

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.9 Transparent LAN Service-Lite (TLS-Lite) (Cont.)

Contract Term: 3 Years, per Port, 1 Mbps to 9 Mbps

Total Number of Ports	1 Mbps	2 Mbps	3 Mbps	4 Mbps	5 Mbps
1	\$229.50	\$243.00	\$288.00	\$306.00	\$324.00
2	\$229.50	\$243.00	\$288.00	\$306.00	\$324.00
3	\$229.50	\$243.00	\$288.00	\$306.00	\$324.00
4	\$207.00	\$220.50	\$279.00	\$297.00	\$319.50
5	\$207.00	\$220.50	\$279.00	\$297.00	\$319.50
6	\$180.00	\$193.50	\$256.50	\$274.50	\$297.00
7	\$180.00	\$193.50	\$256.50	\$274.50	\$297.00
8	\$180.00	\$193.50	\$256.50	\$274.50	\$297.00
9	\$162.00	\$175.50	\$238.50	\$256.50	\$279.00
10	\$162.00	\$175.50	\$238.50	\$256.50	\$279.00
11	\$162.00	\$175.50	\$238.50	\$256.50	\$279.00
12	\$144.00	\$157.50	\$220.50	\$238.50	\$261.00
13	\$144.00	\$157.50	\$220.50	\$238.50	\$261.00
14+	\$144.00	\$157.50	\$220.50	\$238.50	\$261.00

Total Number of Ports	6 Mbps	7 Mbps	8 Mbps	9 Mbps
1	\$342.00	\$360.00	\$396.00	\$400.50
2	\$342.00	\$360.00	\$396.00	\$400.50
3	\$342.00	\$360.00	\$396.00	\$400.50
4	\$337.50	\$360.00	\$396.00	\$400.50
5	\$337.50	\$360.00	\$396.00	\$400.50
6	\$319.50	\$342.00	\$373.50	\$378.00
7	\$319.50	\$342.00	\$373.50	\$378.00
8	\$319.50	\$342.00	\$351.00	\$355.50
9	\$301.50	\$324.00	\$351.00	\$355.50
10	\$301.50	\$324.00	\$351.00	\$355.50
11	\$301.50	\$319.50	\$328.50	\$333.00
12	\$283.50	\$306.00	\$328.50	\$333.00
13	\$283.50	\$306.00	\$328.50	\$333.00
14+	\$283.50	\$297.00	\$306.00	\$319.50

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.9 Transparent LAN Service-Lite (TLS-Lite) (Cont.)

Contract Term: 5 Years, per Port, 1 Mbps to 9 Mbps

Total Number of Ports	1 Mbps	2 Mbps	3 Mbps	4 Mbps	5 Mbps
1	\$204.00	\$216.00	\$256.00	\$272.00	\$288.00
2	\$204.00	\$216.00	\$256.00	\$272.00	\$288.00
3	\$204.00	\$216.00	\$256.00	\$272.00	\$288.00
4	\$184.00	\$196.00	\$248.00	\$264.00	\$284.00
5	\$184.00	\$196.00	\$248.00	\$264.00	\$284.00
6	\$160.00	\$172.00	\$228.00	\$244.00	\$264.00
7	\$160.00	\$172.00	\$228.00	\$244.00	\$264.00
8	\$160.00	\$172.00	\$228.00	\$244.00	\$264.00
9	\$144.00	\$156.00	\$212.00	\$228.00	\$248.00
10	\$144.00	\$156.00	\$212.00	\$228.00	\$248.00
11	\$144.00	\$156.00	\$212.00	\$228.00	\$248.00
12	\$128.00	\$140.00	\$196.00	\$212.00	\$232.00
13	\$128.00	\$140.00	\$196.00	\$212.00	\$232.00
14+	\$128.00	\$140.00	\$196.00	\$212.00	\$232.00

Total Number of Ports	6 Mbps	7 Mbps	8 Mbps	9 Mbps
1	\$304.00	\$320.00	\$352.00	\$356.00
2	\$304.00	\$320.00	\$352.00	\$356.00
3	\$304.00	\$320.00	\$352.00	\$356.00
4	\$300.00	\$320.00	\$352.00	\$356.00
5	\$300.00	\$320.00	\$352.00	\$356.00
6	\$284.00	\$304.00	\$332.00	\$336.00
7	\$284.00	\$304.00	\$332.00	\$336.00
8	\$284.00	\$304.00	\$312.00	\$316.00
9	\$268.00	\$288.00	\$312.00	\$316.00
10	\$268.00	\$288.00	\$312.00	\$316.00
11	\$268.00	\$284.00	\$292.00	\$296.00
12	\$252.00	\$272.00	\$292.00	\$296.00
13	\$252.00	\$272.00	\$292.00	\$296.00
14+	\$252.00	\$264.00	\$272.00	\$284.00

ACCESS SERVICE

17 Rates and Charges (Cont.)17.3 Special Access Service (Cont.)17.3.9 Transparent LAN Service-Lite (TLS-Lite) (Cont.)Local, State, or Federal Governments

The following rates are available to local, state, or federal governments that sign a minimum one year term of service commitment with an option for four one-year renewals, subject to appropriation of funds. Customers must subscribe to a minimum of 16 TLS ports and 16 Transparent LAN Service-Lite ports to qualify for these rates.

Contract Term: 1 Year with Options for four 1-year renewals

Total Number of Ports	Monthly Rate
16+	\$102.40

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services17.4.1 Access OrderingGuide Ref.(A) Access Order Charge, per Order

5.4.1

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 29.48
ACS of Alaska, Inc. – Juneau	\$ 20.55
ACS of Anchorage, Inc.	\$ 29.59
ACS of Fairbanks, Inc.	\$ 21.74
ACS of the Northland, Inc. – Glacier State	\$ 18.75
ACS of the Northland, Inc. – Sitka/Bush	\$ 24.58

(B) Service Date Change Charge, per Order

5.4.3

A Service Date Change Charge will apply, on a per order, per occurrence basis, for each service date changed. The Access Order Charge preceding shall not apply.

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 13.37
ACS of Alaska, Inc. – Juneau	\$ 9.32
ACS of Anchorage, Inc.	\$ 13.76
ACS of Fairbanks, Inc.	\$ 9.86
ACS of the Northland, Inc. – Glacier State	\$ 8.51
ACS of the Northland, Inc. – Sitka/Bush	\$ 11.15

(C) Design Change Charge, per Order

5.4.3

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

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 13.37
ACS of Alaska, Inc. – Juneau	\$ 9.32
ACS of Anchorage, Inc.	\$ 13.76
ACS of Fairbanks, Inc.	\$ 9.86
ACS of the Northland, Inc. – Glacier State	\$ 8.51
ACS of the Northland, Inc. – Sitka/Bush	\$ 11.15

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.1 Access Ordering (Cont.)Guide Ref.

(D)	<u>Miscellaneous Service Order Charge, per occurrence</u>	7.3
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<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 13.37
ACS of Alaska, Inc. – Juneau	\$ 9.32
ACS of Anchorage, Inc.	\$ 13.76
ACS of Fairbanks, Inc.	\$ 9.86
ACS of the Northland, Inc. – Glacier State	\$ 8.51
ACS of the Northland, Inc. – Sitka/Bush	\$ 11.15

17.4.2 Additional Engineering

Additional Engineering chargeable periods
are per each ½ hour, or fraction thereof.

(A)	<u>Basic Time, per engineer</u>	13.1
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Basic Time occurs during normally
scheduled working hours.

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 27.19
ACS of Alaska, Inc. – Juneau	\$ 27.19
ACS of Anchorage, Inc.	\$ 41.69
ACS of Fairbanks, Inc.	\$ 27.19
ACS of the Northland, Inc. – Glacier State	\$ 27.19
ACS of the Northland, Inc. – Sitka/Bush	\$ 27.19

(B)	<u>Overtime, per engineer</u>	13.1
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Overtime occurs outside of normally
scheduled working hours on a
normally scheduled work day.

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 40.79
ACS of Alaska, Inc. – Juneau	\$ 40.79
ACS of Anchorage, Inc.	\$ 62.54
ACS of Fairbanks, Inc.	\$ 40.79
ACS of the Northland, Inc. – Glacier State	\$ 40.79
ACS of the Northland, Inc. – Sitka/Bush	\$ 40.79

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.2 Additional Engineering (Cont.)Guide Ref.(C) Premium Time, per engineer

13.1

Premium Time occurs outside of the scheduled work day

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 54.38
ACS of Alaska, Inc. – Juneau	\$ 54.38
ACS of Anchorage, Inc.	\$ 83.38
ACS of Fairbanks, Inc.	\$ 54.38
ACS of the Northland, Inc. – Glacier State	\$ 54.38
ACS of the Northland, Inc. – Sitka/Bush	\$ 54.38

17.4.3 Additional Labor

Additional Labor chargeable periods are per each ½ hour, or fraction thereof.

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.

(A) Installation or Repair(1) Basic Time, per Technician

5.2.2(2)

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 21.93
ACS of Alaska, Inc. – Juneau	\$ 21.93
ACS of Anchorage, Inc.	\$ 41.35
ACS of Fairbanks, Inc.	\$ 21.93
ACS of the Northland, Inc. – Glacier State	\$ 21.93
ACS of the Northland, Inc. – Sitka/Bush	\$ 21.93

(2) Overtime, per Technician

13.2.1,2

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 32.90
ACS of Alaska, Inc. – Juneau	\$ 32.90
ACS of Anchorage, Inc.	\$ 62.02
ACS of Fairbanks, Inc.	\$ 32.90
ACS of the Northland, Inc. – Glacier State	\$ 32.90
ACS of the Northland, Inc. – Sitka/Bush	\$ 32.90

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.3 Additional Labor (Cont.)Guide Ref.(A) Installation or Repair (Cont.)

(3) Premium Time, per Technician

13.2.1,2

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 43.86
ACS of Alaska, Inc. – Juneau	\$ 43.86
ACS of Anchorage, Inc.	\$ 82.70
ACS of Fairbanks, Inc.	\$ 43.86
ACS of the Northland, Inc. – Glacier State	\$ 43.86
ACS of the Northland, Inc. – Sitka/Bush	\$ 43.86

(B) Stand by

(1) Basic Time, per Technician

13.2.3

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 21.67
ACS of Alaska, Inc. – Juneau	\$ 21.67
ACS of Anchorage, Inc.	\$ 42.38
ACS of Fairbanks, Inc.	\$ 21.67
ACS of the Northland, Inc. – Glacier State	\$ 21.67
ACS of the Northland, Inc. – Sitka/Bush	\$ 21.67

(2) Overtime, per Technician

13.2.3

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 32.51
ACS of Alaska, Inc. – Juneau	\$ 32.51
ACS of Anchorage, Inc.	\$ 63.58
ACS of Fairbanks, Inc.	\$ 32.51
ACS of the Northland, Inc. – Glacier State	\$ 32.51
ACS of the Northland, Inc. – Sitka/Bush	\$ 32.51

(3) Premium Time, per Technician

13.2.3

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 43.34
ACS of Alaska, Inc. – Juneau	\$ 43.34
ACS of Anchorage, Inc.	\$ 84.77
ACS of Fairbanks, Inc.	\$ 43.34
ACS of the Northland, Inc. – Glacier State	\$ 43.34
ACS of the Northland, Inc. – Sitka/Bush	\$ 43.34

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.3 Additional Labor (Cont.)Guide Ref.(C) Maintenance and Testing

(1) Basic Time, per Technician		13.2.3
<u>ACS Company</u>	<u>Rate</u>	
ACS of Alaska, Inc. – Greatland	\$ 21.93	
ACS of Alaska, Inc. – Juneau	\$ 21.93	
ACS of Anchorage, Inc.	\$ 42.44	
ACS of Fairbanks, Inc.	\$ 21.93	
ACS of the Northland, Inc. – Glacier State	\$ 21.93	
ACS of the Northland, Inc. – Sitka/Bush	\$ 21.93	
(2) Overtime, per Technician		13.2.3
<u>ACS Company</u>	<u>Rate</u>	
ACS of Alaska, Inc. – Greatland	\$ 32.90	
ACS of Alaska, Inc. – Juneau	\$ 32.90	
ACS of Anchorage, Inc.	\$ 63.66	
ACS of Fairbanks, Inc.	\$ 32.90	
ACS of the Northland, Inc. – Glacier State	\$ 32.90	
ACS of the Northland, Inc. – Sitka/Bush	\$ 32.90	
(3) Premium Time, per Technician		13.2.3
<u>ACS Company</u>	<u>Rate</u>	
ACS of Alaska, Inc. – Greatland	\$ 43.86	
ACS of Alaska, Inc. – Juneau	\$ 43.86	
ACS of Anchorage, Inc.	\$ 84.88	
ACS of Fairbanks, Inc.	\$ 43.86	
ACS of the Northland, Inc. – Glacier State	\$ 43.86	
ACS of the Northland, Inc. – Sitka/Bush	\$ 43.86	

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.3 Additional Labor (Cont.)Guide Ref.(D) Testing and Maintenance with Other Telephone Companies, or Other Labor

(1) Installation and Repair

- Basic Time, per Technician 13.2.4

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 21.93
ACS of Alaska, Inc. – Juneau	\$ 21.93
ACS of Anchorage, Inc.	\$ 41.35
ACS of Fairbanks, Inc.	\$ 21.93
ACS of the Northland, Inc. – Glacier State	\$ 21.93
ACS of the Northland, Inc. – Sitka/Bush	\$ 21.93

- Overtime, per Technician 13.2.4

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 32.90
ACS of Alaska, Inc. – Juneau	\$ 32.90
ACS of Anchorage, Inc.	\$ 62.02
ACS of Fairbanks, Inc.	\$ 32.90
ACS of the Northland, Inc. – Glacier State	\$ 32.90
ACS of the Northland, Inc. – Sitka/Bush	\$ 32.90

- Premium Time, per Technician 13.2.4

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 43.86
ACS of Alaska, Inc. – Juneau	\$ 43.86
ACS of Anchorage, Inc.	\$ 82.70
ACS of Fairbanks, Inc.	\$ 43.86
ACS of the Northland, Inc. – Glacier State	\$ 43.86
ACS of the Northland, Inc. – Sitka/Bush	\$ 43.86

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.3 Additional Labor (Cont.)Guide Ref.(D) Testing and Maintenance with Other Telephone Companies, or Other Labor
(Cont.)

(2) Central Office Maintenance

- Basic Time, per Technician 13.2.4

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 23.81
ACS of Alaska, Inc. – Juneau	\$ 23.81
ACS of Anchorage, Inc.	\$ 48.44
ACS of Fairbanks, Inc.	\$ 23.81
ACS of the Northland, Inc. – Glacier State	\$ 23.81
ACS of the Northland, Inc. – Sitka/Bush	\$ 23.81

- Overtime, per Technician 13.2.5

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 35.72
ACS of Alaska, Inc. – Juneau	\$ 35.72
ACS of Anchorage, Inc.	\$ 63.66
ACS of Fairbanks, Inc.	\$ 35.72
ACS of the Northland, Inc. – Glacier State	\$ 35.72
ACS of the Northland, Inc. – Sitka/Bush	\$ 35.72

- Premium Time, per Technician 13.2.5

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 47.62
ACS of Alaska, Inc. – Juneau	\$ 47.62
ACS of Anchorage, Inc.	\$ 84.88
ACS of Fairbanks, Inc.	\$ 47.62
ACS of the Northland, Inc. – Glacier State	\$ 47.62
ACS of the Northland, Inc. – Sitka/Bush	\$ 47.62

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.4 Miscellaneous ServicesGuide Ref.(A) Reserved for Future Use(B) Reserved for Future Use(C) Reserved for Future Use(D) Additional Cooperative Acceptance
Testing – Special Access(1) Basic Time, Overtime,
and Premium Time 13.3.1(B)(1)See 17.4.3(C), Additional
Labor, for applicable rates(E) Additional Manual Testing – Special
Access(1) Basic Time, Overtime,
and Premium Time 13.3.1(B)(2)See 17.4.3(C), Additional
Labor, for applicable rates(F) Maintenance of Service Periods(1) Basic Time, Overtime,
and Premium Time 13.3.2See 17.4.3(C), Additional
Labor, for applicable rates

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.4 Miscellaneous Services (Cont.)Guide Ref.(G) Telecommunications Service Priority

Per Service Arranged

13.3.3

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ ICB
ACS of Alaska, Inc. – Juneau	\$ ICB
ACS of Anchorage, Inc.	\$ 54.63
ACS of Fairbanks, Inc.	\$ ICB
ACS of the Northland, Inc. – Glacier State	\$ ICB
ACS of the Northland, Inc. – Sitka/Bush	\$ ICB

(H) Billing Name and Address Information, per Request Incidence

(1) First Billed Number

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ ICB
ACS of Alaska, Inc. – Juneau	\$ ICB
ACS of Anchorage, Inc.	\$ 41.06
ACS of Fairbanks, Inc.	\$ ICB
ACS of the Northland, Inc. – Glacier State	\$ ICB
ACS of the Northland, Inc. – Sitka/Bush	\$ ICB

(2) Every Billed Number Thereafter

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ ICB
ACS of Alaska, Inc. – Juneau	\$ ICB
ACS of Anchorage, Inc.	\$ 0.087
ACS of Fairbanks, Inc.	\$ ICB
ACS of the Northland, Inc. – Glacier State	\$ ICB
ACS of the Northland, Inc. – Sitka/Bush	\$ ICB

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.4 Miscellaneous Services (Cont.)Tariff Ref.

- (I) Reserved for Future Use
- (J) Reserved for Future Use
- (K) Reserved for Future Use
- (L) Reserved for Future Use
- (M) Reserved for Future Use
- (N) Reserved for Future Use
- (O) Reserved for Future Use
- (P) Reserved for Future Use
- (Q) Reserved for Future Use
- (R) Reserved for Future Use

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.5 Special Federal Government Access Services(A) Reserved for Future Use(B) Wideband Digital Special Access Service

ICB rates and charges shall apply to the following communication types:

- Type I, each
- Type II, each
- Type III, each

(C) Reserved for Future Use(D) Reserved for Future Use

ACCESS SERVICE

17 Rates and Charges (Cont.)

17.4 Other Services (Cont.)

17.4.6 Reserved for Future Use

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service

Regulations concerning Ethernet Transport Services (ETS) are set forth in Section 16.3, preceding.

(A) ETS Channel Terminations

- (1) Per termination, when customer-designated premises are located within 300 feet of ETS SWC.

- 10 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 99.00	\$ 136.74
ACS of Alaska – Juneau	\$ 69.02	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 91.90	\$ 100.87
ACS of the Northland – Glacier State	\$ 79.24	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 103.90	\$ 114.03

- 20 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 108.65	\$ 136.74
ACS of Alaska – Juneau	\$ 75.75	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 100.87	\$ 100.87
ACS of the Northland – Glacier State	\$ 86.97	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 114.03	\$ 114.03

- 50 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 130.38	\$ 136.74
ACS of Alaska – Juneau	\$ 90.90	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 121.04	\$ 100.87
ACS of the Northland – Glacier State	\$ 104.37	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 136.84	\$ 114.03

- 100 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 144.87	\$ 136.74
ACS of Alaska – Juneau	\$ 101.00	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 134.49	\$ 100.87
ACS of the Northland – Glacier State	\$ 115.96	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 152.04	\$ 114.03

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service (Cont.)(A) ETS Channel Terminations (Cont.)

(1) (Cont.)

- 500 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 270.42	\$ 395.04
ACS of Alaska – Juneau	\$ 188.53	\$ 275.41
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 251.04	\$ 291.39
ACS of the Northland – Glacier State	\$ 216.46	\$ 251.25
ACS of the Northland – Sitka/Bush	\$ 283.81	\$ 329.42

- 1 Gbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 359.76	\$ 395.04
ACS of Alaska – Juneau	\$ 250.82	\$ 275.41
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 333.98	\$ 291.39
ACS of the Northland – Glacier State	\$ 287.97	\$ 251.25
ACS of the Northland – Sitka/Bush	\$ 377.57	\$ 329.42

(2) Per termination when customer-designated premises is located more than 300 feet from ETS SWC.

- 10 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 132.79	\$ 136.74
ACS of Alaska – Juneau	\$ 92.58	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 123.28	\$ 100.87
ACS of the Northland – Glacier State	\$ 106.30	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 139.37	\$ 114.03

- 20 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 144.87	\$ 136.74
ACS of Alaska – Juneau	\$ 101.00	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 134.49	\$ 100.87
ACS of the Northland – Glacier State	\$ 115.96	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 152.04	\$ 114.03

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service (Cont.)(A) ETS Channel Terminations (Cont.)

(2) (Cont.)

- 50 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 176.26	\$ 136.74
ACS of Alaska – Juneau	\$ 122.88	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 163.63	\$ 100.87
ACS of the Northland – Glacier State	\$ 141.09	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 184.98	\$ 114.03

- 100 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 193.16	\$ 136.74
ACS of Alaska – Juneau	\$ 134.66	\$ 95.33
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 179.32	\$ 100.87
ACS of the Northland – Glacier State	\$ 154.62	\$ 86.97
ACS of the Northland – Sitka/Bush	\$ 202.72	\$ 114.03

- 500 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 362.17	\$ 395.04
ACS of Alaska – Juneau	\$ 252.50	\$ 275.41
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 336.22	\$ 291.39
ACS of the Northland – Glacier State	\$ 289.91	\$ 251.25
ACS of the Northland – Sitka/Bush	\$ 380.10	\$ 329.42

- 1 Gbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 482.90	\$ 395.04
ACS of Alaska – Juneau	\$ 336.66	\$ 275.41
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 448.29	\$ 291.39
ACS of the Northland – Glacier State	\$ 386.54	\$ 251.25
ACS of the Northland – Sitka/Bush	\$ 506.81	\$ 329.42

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service (Cont.)(2) Ports

(1) Per ETS Basic Port

- 10 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 108.65	\$ 334.27
ACS of Alaska – Juneau	\$ 75.75	\$ 233.04
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 100.87	\$ 246.56
ACS of the Northland – Glacier State	\$ 86.97	\$ 212.60
ACS of the Northland – Sitka/Bush	\$ 114.03	\$ 278.74

- 20 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 120.72	\$ 334.27
ACS of Alaska – Juneau	\$ 84.17	\$ 233.04
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 112.07	\$ 246.56
ACS of the Northland – Glacier State	\$ 96.64	\$ 212.60
ACS of the Northland – Sitka/Bush	\$ 126.70	\$ 278.74

- 50 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 132.79	\$ 334.27
ACS of Alaska – Juneau	\$ 92.58	\$ 233.04
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 123.28	\$ 246.56
ACS of the Northland – Glacier State	\$ 106.30	\$ 212.60
ACS of the Northland – Sitka/Bush	\$ 139.37	\$ 278.74

- 100 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 144.87	\$ 334.27
ACS of Alaska – Juneau	\$ 101.00	\$ 233.04
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 134.49	\$ 246.56
ACS of the Northland – Glacier State	\$ 115.96	\$ 212.60
ACS of the Northland – Sitka/Bush	\$ 152.04	\$ 278.74

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service (Cont.)(B) Ports (Cont.)

(1) (Cont.)

- 500 Mbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 253.52	\$ 820.47
ACS of Alaska – Juneau	\$ 176.75	\$ 572.01
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 235.35	\$ 605.19
ACS of the Northland – Glacier State	\$ 202.93	\$ 521.83
ACS of the Northland – Sitka/Bush	\$ 266.07	\$ 684.19

- 1 Gbps

<u>ACS Company</u>	<u>Monthly Rate</u>	<u>NRC</u>
ACS of Alaska – Greatland	\$ 386.32	\$ 820.47
ACS of Alaska – Juneau	\$ 269.33	\$ 572.01
ACS of Anchorage	\$ n/a	\$ n/a
ACS of Fairbanks	\$ 358.63	\$ 605.19
ACS of the Northland – Glacier State	\$ 309.23	\$ 521.83
ACS of the Northland – Sitka/Bush	\$ 405.44	\$ 684.19

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service (Cont.)(C) Optional Features and Functions

(1) DSL Access Service Connection, per ETS Basic Port equipped

- 10 Mbps

<u>ACS Company</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$	175.00
ACS of Alaska – Juneau	\$	175.00
ACS of Anchorage	\$	n/a
ACS of Fairbanks	\$	175.00
ACS of the Northland – Glacier State	\$	175.00
ACS of the Northland – Sitka/Bush	\$	175.00

- 20 Mbps

<u>ACS Company</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$	175.00
ACS of Alaska – Juneau	\$	175.00
ACS of Anchorage	\$	n/a
ACS of Fairbanks	\$	175.00
ACS of the Northland – Glacier State	\$	175.00
ACS of the Northland – Sitka/Bush	\$	175.00

- 50 Mbps

<u>ACS Company</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$	175.00
ACS of Alaska – Juneau	\$	175.00
ACS of Anchorage	\$	n/a
ACS of Fairbanks	\$	175.00
ACS of the Northland – Glacier State	\$	175.00
ACS of the Northland – Sitka/Bush	\$	175.00

- 100 Mbps

<u>ACS Company</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$	651.00
ACS of Alaska – Juneau	\$	651.00
ACS of Anchorage	\$	n/a
ACS of Fairbanks	\$	651.00
ACS of the Northland – Glacier State	\$	651.00
ACS of the Northland – Sitka/Bush	\$	651.00

ACCESS SERVICE

17 Rates and Charges (Cont.)17.4 Other Services (Cont.)17.4.7 Ethernet Transport Service (Cont.)(C) Optional Features and Functions (Cont.)

(1) (Cont.)

- 500 Mbps

<u>ACS Company</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$	651.00
ACS of Alaska – Juneau	\$	651.00
ACS of Anchorage	\$	n/a
ACS of Fairbanks	\$	651.00
ACS of the Northland – Glacier State	\$	651.00
ACS of the Northland – Sitka/Bush	\$	651.00

- 1 Gbps

<u>ACS Company</u>		<u>NRC</u>
ACS of Alaska – Greatland	\$	1,349.00
ACS of Alaska – Juneau	\$	1,349.00
ACS of Anchorage	\$	n/a
ACS of Fairbanks	\$	1,349.00
ACS of the Northland – Glacier State	\$	1,349.00
ACS of the Northland – Sitka/Bush	\$	1,349.00